

**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
GW01	8/25/2009	410	5.7	30	170	7	NA
	3/11/2010	1300	260	85	520	4	NA
GW02	3/16/2010	<1.0	<1.0	<1.0	<1.0	4	NA
MW01	4/23/2008	<1.0	<1.0	<1.0	<1.0	3.90	NA
	1/6/2009	<1.0	<1.0	<1.0	<1.0	3.83	NA
	4/14/2009	2.9	4.2	1.2	15	3.96	NA
	7/10/2009	<1.0	<1.0	<1.0	2.1	3.54	NA
	MW01 destroyed as of 9/15/2009						
MW01R	12/22/2010	Not Found - Not Sampled				Not Found	NA
MW01R destroyed as of 2/10/2011							
MW02	4/23/2008	<1.0	<1.0	<1.0	<1.0	3.95	93.05
	1/6/2009	<1.0	<1.0	<1.0	<1.0	3.91	93.09
	4/14/2009	1.7	2.3	<1.0	7.8	3.81	93.19
	7/10/2009	<1.0	<1.0	<1.0	<1.0	3.61	93.39
	8/11/2010	<1.0	<1.0	<1.0	<1.0	3.15	93.85
	11/11/2010	<1.0	<1.0	<1.0	<1.0	3.25	93.75
	2/10/2011	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	5/26/2011	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	8/15/2011	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/18/2011	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	2/28/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	5/15/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	8/9/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/16/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	2/13/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	5/30/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	8/28/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/13/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	2/3/2014	<4.0	<4.0	<4.0	<4.0	1.91	95.09
	5/21/2014	Surveyed - Not Sampled				3.07	93.95
	5/22/2014	<1.0	<1.0	<1.0	<1.0	Inaccessible	NA
MW02 destroyed as of 8/1/2014							
MW03	4/23/2008	3600	<1.0	430	3600	4.55	NA



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/6/2009	1900	<1.0	16	24	4.61	NA
	4/14/2009	5100	1.2	2.9	24	4.74	NA
	7/10/2009	1400	<1.0	23	32	4.20	NA
	MW03 destroyed as of 9/15/2009						
MW03R	12/22/2010	<1.0	<1.0	<1.0	<1.0	4.00	93.22
	2/10/2011	<1.0	<1.0	<1.0	<1.0	4.20	93.02
	5/26/2011	<1.0	<1.0	<1.0	<1.0	2.91	94.31
	8/15/2011	<1.0	<1.0	<1.0	<1.0	3.40	93.82
	11/18/2011	<1.0	<1.0	<1.0	<1.0	3.06	94.16
	2/28/2012	<1.0	<1.0	<1.0	<1.0	3.64	93.58
	5/15/2012	<1.0	<1.0	<1.0	<1.0	3.55	93.67
	8/9/2012	<1.0	<1.0	<1.0	<1.0	5.00	92.22
	11/16/2012	<1.0	<1.0	<1.0	<1.0	4.65	92.57
	2/13/2013	<1.0	<1.0	<1.0	<1.0	5.95	91.27
	5/30/2013	<1.0	<1.0	<1.0	<1.0	3.36	93.86
	8/28/2013	<1.0	<1.0	<1.0	<1.0	3.72	93.50
	11/13/2013	<1.0	<1.0	<1.0	<1.0	3.40	93.82
	2/3/2014	Not Found - Not Sampled				Not Found	NA
	5/21/2014	Surveyed - Not Sampled				3.51	93.87
	5/22/2014	<1.0	<1.0	<1.0	<1.0	3.11	94.29
	8/1/2014	<1.0	<1.0	<1.0	<1.0	2.64	94.74
	11/21/2014	<1.0	<1.0	<1.0	<1.0	3.23	94.15
	2/9/2015	<1.0	<1.0	<1.0	<1.0	3.29	94.09
	5/15/2015	<1.0	<1.0	<1.0	<1.0	2.80	94.58
	8/28/2015	<1.0	<1.0	<1.0	<1.0	3.01	94.37
	11/2/2015	<1.0	<1.0	<1.0	<1.0	3.18	94.20
	2/17/2016	<1.0	<1.0	<1.0	<1.0	2.40	94.98
	5/25/2016	<1.00	<1.00	<1.00	<1.00	3.65	93.73
	8/31/2016	<1.00	<1.00	<1.00	<1.00	3.01	94.37
	11/28/2016	<1.00	<1.00	<1.00	<1.00	3.44	93.94
	2/22/2017	<1.00	<1.00	<1.00	<1.00	3.60	93.78
	5/25/2017	<1.00	<1.00	<1.00	<1.00	2.24	95.14
	8/29/2017	<1.00	<1.00	<1.00	<1.00	2.89	94.49
	11/28/2017	<4.00	<4.00	<4.00	<4.00	2.63	94.75
	2/2/2018	<1.00	<1.00	<1.00	<1.00	3.71	96.39
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	2.33	97.77



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/30/2018	<1.00	215	<1.00	<1.00	2.50	97.60
	11/14/2018	<4.00	<4.00	<4.00	<4.00	3.00	97.10
	2/11/2019	<1.00	<1.00	<1.00	<1.00	4.12	95.98
MW04	12/17/2010	<1.0	<1.0	<1.0	<1.0	1.88	93.98
	2/10/2011	<1.0	<1.0	<1.0	<1.0	1.95	93.91
	5/26/2011	<1.0	<1.0	<1.0	<1.0	0.94	94.92
	8/15/2011	<1.0	<1.0	<1.0	<1.0	1.49	94.37
	11/18/2011	<1.0	<1.0	<1.0	<1.0	1.22	94.64
	2/13/2012	<1.0	<1.0	<1.0	<1.0	1.95	93.91
	5/15/2012	<1.0	<1.0	<1.0	<1.0	1.86	94.00
	8/9/2012	<1.0	<1.0	<1.0	<1.0	2.86	93.00
	11/16/2012	<1.0	<1.0	<1.0	<1.0	2.35	93.51
	2/13/2013	<1.0	<1.0	<1.0	<1.0	3.60	92.26
	5/30/2013	<1.0	<1.0	<1.0	<1.0	1.30	94.56
	8/28/2013	<1.0	<1.0	<1.0	<1.0	1.55	94.31
	11/13/2013	<1.0	<1.0	<1.0	<1.0	1.21	94.65
	2/3/2014	<4.0	<4.0	<4.0	<4.0	2.29	93.57
	5/22/2014	<1.0	<1.0	<1.0	<1.0	PVC Broken	NA
MW04 destroyed as of 8/1/2014							
MW05	12/17/2010	<b>160</b>	48	<1.0	<1.0	3.13	92.94
	2/10/2011	<b>130</b>	6.5	<1.0	<1.0	3.37	92.70
	5/26/2011	<b>20</b>	<1.0	<1.0	<1.0	1.26	94.81
	8/15/2011	<b>240</b>	4.7	6.2	19	3.28	92.79
	11/18/2011	<b>300</b>	<1.0	4.6	18	2.19	93.88
	2/13/2012	<b>360</b>	<1.0	1.3	<1.0	1.80	94.27
	5/15/2012	<b>7.6</b>	<1.0	<1.0	<1.0	1.73	94.34
	8/9/2012	Insufficient Water - Not Sampled				5.55	90.52
	11/16/2012	<b>240</b>	<1.0	4.2	35	3.78	92.29
	2/13/2013	<b>280</b>	<1.0	5.5	33	PVC Blocked	NA
	5/30/2013	<b>68</b>	<1.0	<1.0	<1.0	3.80	92.27
	8/28/2013	<b>180</b>	<1.0	<1.0	<1.0	2.07	94.00
	11/13/2013	<b>241</b>	2.6	1.3	26.2	2.69	93.38
	2/3/2014	Frozen - Not Sampled				Frozen	NA
	5/21/2014	Surveyed - Not Sampled				2.17	94.09
	5/22/2014	<b>14.9</b>	<4.0	<4.0	<4.0	1.11	95.12
	8/1/2014	<b>165</b>	<1.0	<1.0	<1.0	3.22	93.04



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	11/21/2014	15	<1.0	<1.0	<1.0	1.32	94.94
	2/9/2015	2.2	<1.0	<1.0	<1.0	0.83	95.43
	5/15/2015	6.7	<1.0	<1.0	<1.0	0.83	95.43
	8/28/2015	196	1.2	<1.0	<1.0	2.79	93.47
	11/2/2015	55.7	<1.0	<1.0	<1.0	1.73	94.53
	2/17/2016	1.4	<1.0	<1.0	<1.0	0.34	95.92
	5/25/2016	2.76	<1.00	<1.00	<1.00	2.02	94.24
	8/31/2016	<1.00	<1.00	<1.00	<1.00	1.10	95.16
	11/28/2016	<1.00	<1.00	<1.00	<1.00	1.61	94.65
	2/22/2017	<1.00	<1.00	<1.00	<1.00	0.23	96.03
	5/25/2017	<1.00	<1.00	<1.00	<1.00	0.56	95.70
	8/29/2017	<1.00	<1.00	<1.00	<1.00	-0.46	96.72
	11/28/2017	<1.00	<1.00	<1.00	<1.00	-0.53	96.79
	2/2/2018	<1.00	<1.00	<1.00	<1.00	1.17	98.45
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	1.03	98.59
	8/30/2018	<1.00	<1.00	<1.00	<1.00	1.62	98.00
	11/14/2018	<1.00	<1.00	<1.00	<1.00	1.58	98.04
	2/11/2019	<1.00	<1.00	<1.00	<1.00	3.26	96.36
MW06	12/17/2010	<1.0	<1.0	<1.0	<1.0	2.28	93.31
	2/10/2011	<1.0	<1.0	<1.0	<1.0	3.50	93.09
	5/26/2011	<1.0	<1.0	<1.0	<1.0	1.31	94.28
	8/15/2011	<1.0	<1.0	<1.0	<1.0	1.90	93.69
	11/18/2011	<1.0	<1.0	<1.0	<1.0	1.67	93.92
	2/13/2012	<1.0	<1.0	<1.0	<1.0	2.35	93.24
	5/15/2012	<1.0	<1.0	<1.0	<1.0	2.27	93.32
	8/9/2012	<1.0	<1.0	<1.0	<1.0	3.47	92.12
	11/16/2012	<1.0	<1.0	<1.0	<1.0	2.83	92.76
	2/13/2013	<1.0	<1.0	<1.0	<1.0	4.33	91.26
	5/30/2013	<1.0	<1.0	<1.0	<1.0	1.45	94.14
	8/28/2013	<1.0	<1.0	<1.0	<1.0	1.65	93.94
	11/13/2013	<1.0	<1.0	<1.0	<1.0	1.55	94.04
	2/3/2014	<4.0	<4.0	<4.0	<4.0	2.90	92.69
	5/21/2014	Surveyed - Not Sampled				0.85	95.14
	5/22/2014	<1.0	<1.0	<1.0	<1.0	0.64	95.37
	8/1/2014	<1.0	<1.0	<1.0	<1.0	0.57	95.42
	11/21/2014	<1.0	<1.0	<1.0	<1.0	0.84	95.15



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	2/9/2015	<1.0	<1.0	<1.0	<1.0	1.08	94.91
	5/15/2015	<1.0	<1.0	<1.0	<1.0	0.54	95.45
	8/28/2015	<1.0	<1.0	<1.0	<1.0	0.73	95.26
	11/2/2015	<1.0	<1.0	<1.0	<1.0	0.78	95.21
	2/17/2016	<1.0	<1.0	<1.0	<1.0	0.63	95.36
	5/25/2016	<1.00	<1.00	<1.00	<1.00	1.04	94.95
	8/31/2016	<1.00	<1.00	<1.00	<1.00	0.55	95.44
	11/28/2016	<1.00	<1.00	<1.00	<1.00	1.10	94.89
	2/22/2017	<1.00	<1.00	<1.00	<1.00	1.32	94.67
	5/25/2017	<1.00	<1.00	<1.00	<1.00	0.58	95.41
	8/29/2017	<1.00	<1.00	<1.00	<1.00	0.72	95.27
	11/28/2017	<1.00	<1.00	<1.00	<1.00	0.61	95.38
	2/2/2018	<1.00	<1.00	<1.00	<1.00	1.63	97.67
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	0.95	98.35
	8/30/2018	<1.00	<1.00	<1.00	<1.00	0.87	98.43
	11/14/2018	<1.00	<1.00	<1.00	<1.00	1.17	98.13
	2/11/2019	<1.00	<1.00	<1.00	<1.00	2.72	96.58
MW07	12/17/2010	<1.0	<1.0	<1.0	<1.0	2.45	93.41
	2/10/2011	<1.0	<1.0	<1.0	<1.0	2.72	93.14
	5/26/2011	<1.0	<1.0	<1.0	<1.0	1.35	94.51
	8/15/2011	<1.0	<1.0	<1.0	<1.0	1.50	94.36
	11/18/2011	<1.0	<1.0	<1.0	<1.0	1.59	94.27
	2/13/2012	<1.0	<1.0	<1.0	<1.0	2.70	93.16
	5/15/2012	<1.0	<1.0	<1.0	<1.0	2.55	93.31
	8/9/2012	<1.0	<1.0	<1.0	<1.0	2.95	92.91
	11/16/2012	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	2/13/2013	<1.0	<1.0	<1.0	<1.0	4.75	91.11
	5/30/2013	<1.0	<1.0	<1.0	<1.0	0.60	95.26
	8/28/2013	<1.0	<1.0	<1.0	<1.0	1.33	94.53
	11/13/2013	<1.0	<1.0	<1.0	<1.0	1.95	93.91
	2/3/2014	Damaged - Not Sampled				3.29	92.57
	5/21/2014	Surveyed - Not Sampled				0.79	95.08
	5/22/2014	Under Water - Not Sampled				0.66	95.26
	5/28/2014	<1.0	<1.0	<1.0	<1.0	1.11	94.81
	8/1/2014	<1.0	<1.0	<1.0	<1.0	0.44	95.43
	11/21/2014	<1.0	<1.0	<1.0	<1.0	0.90	94.97



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	2/9/2015	<1.0	<1.0	<1.0	<1.0	1.05	94.82
	5/15/2015	<1.0	<1.0	<1.0	<1.0	0.57	95.30
	8/28/2015	<1.0	<1.0	<1.0	<1.0	0.88	94.99
	11/2/2015	<1.0	<1.0	<1.0	<1.0	0.88	94.99
	2/17/2016	<1.0	<1.0	<1.0	<1.0	0.65	95.22
	5/25/2016	<1.00	<1.00	<1.00	<1.00	1.17	94.70
	8/31/2016	<1.00	<1.00	<1.00	<1.00	0.44	95.43
	11/28/2016	<1.00	<1.00	<1.00	<1.00	1.07	94.80
	2/22/2017	<1.00	<1.00	<1.00	<1.00	0.99	94.88
	5/25/2017	<1.00	<1.00	<1.00	<1.00	0.35	95.52
	8/29/2017	<1.00	<1.00	<1.00	<1.00	0.48	95.39
	11/28/2017	<1.00	<1.00	<1.00	<1.00	0.37	95.50
	2/2/2018	<1.00	<1.00	<1.00	<1.00	1.95	97.34
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	0.55	98.74
	8/30/2018	<1.00	<1.00	<1.00	<1.00	0.62	98.67
	11/14/2018	<1.00	<1.00	<1.00	<1.00	1.02	98.27
	2/11/2019	Frozen - Not Sampled				NM	NA
MW08	12/17/2010	<b>59</b>	<1.0	47	150	3.33	92.69
	2/10/2011	<b>46</b>	<1.0	19	31	3.69	92.33
	5/26/2011	<b>34</b>	<1.0	14	29	1.98	94.04
	8/15/2011	<b>48</b>	<1.0	28	56	2.23	93.79
	11/18/2011	<b>58</b>	<1.0	19	52	2.42	93.60
	2/13/2012	<b>37</b>	<1.0	8.7	<1.0	3.58	92.44
	5/15/2012	<b>8.9</b>	<1.0	<1.0	7.2	3.47	92.55
	8/9/2012	<b>24</b>	<1.0	1.6	6.6	2.98	93.04
	11/16/2012	<b>56</b>	<1.0	7.6	22	3.25	92.77
	2/13/2013	<b>39</b>	<1.0	2.6	3	5.68	90.34
	5/30/2013	<b>45</b>	<1.0	3.3	5.8	1.03	94.99
	8/28/2013	<b>43</b>	<1.0	<1.0	<1.0	2.39	93.63
	11/13/2013	<b>47.4</b>	<1.0	2.2	1.1	2.88	93.14
	2/3/2014	<b>31.4</b>	<4.0	<4.0	<4.0	4.26	91.76
	5/21/2014	Surveyed - Not Sampled				1.75	94.27
	5/22/2014	<b>33.4</b>	<1.0	1.6	<1.0	1.07	94.68
	8/1/2014	<b>24.9</b>	<1.0	<1.0	<1.0	0.57	95.45
	11/21/2014	<b>31.8</b>	<1.0	<1.0	<1.0	1.37	94.65
	2/9/2015	<b>46.4</b>	<1.0	4.9	<1.0	1.61	94.41



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	5/15/2015	34	<4.0	<4.0	<4.0	1.00	95.02
	8/28/2015	23.9	<1.0	<1.0	<1.0	1.49	94.53
	11/2/2015	18	<1.0	<1.0	<1.0	1.50	94.52
	2/17/2016	45.2	<1.0	1.9	1.0	0.26	95.76
	5/25/2016	13.5	<1.00	<1.00	<1.00	2.07	93.95
	8/31/2016	9.35	<1.00	<1.00	<1.00	0.38	95.64
	11/28/2016	19.7	<1.00	<1.00	<1.00	1.85	94.17
	2/22/2017	<1.00	<1.00	<1.00	<1.00	0.58	95.44
	5/25/2017	<1.00	<1.00	<1.00	<1.00	0.62	95.40
	8/29/2017	2.71	<1.00	<1.00	<1.00	0.08	95.94
	11/28/2017	<1.00	<1.00	<1.00	<1.00	-0.06	96.08
	2/2/2018	<1.00	<1.00	<1.00	<1.00	2.88	96.46
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	1.37	97.97
	8/30/2018	<1.00	<1.00	<1.00	<1.00	1.31	98.03
	11/14/2018	<1.00	<1.00	<1.00	<1.00	1.89	97.45
	2/11/2019	<1.00	<1.00	<1.00	<1.00	3.85	95.49
MW09	12/17/2010	520	<1.0	<1.0	<1.0	2.43	93.34
	2/10/2011	710	<1.0	18	74	2.59	93.18
	5/26/2011	170	<1.0	<1.0	2.5	1.01	94.76
	8/15/2011	6	<1.0	<1.0	<1.0	1.41	94.36
	11/18/2011	<1.0	<1.0	<1.0	<1.0	1.43	94.34
	2/13/2012	<1.0	<1.0	<1.0	<1.0	2.39	93.38
	5/15/2012	1.7	<1.0	<1.0	<1.0	2.34	93.43
	8/9/2012	260	<1.0	<1.0	<1.0	3.49	92.28
	11/16/2012	19	<1.0	<1.0	<1.0	2.49	93.28
	2/13/2013	330	<1.0	<1.0	<1.0	4.34	91.43
	5/30/2013	240	<1.0	<1.0	<1.0	1.14	94.63
	8/28/2013	<1.0	<1.0	<1.0	<1.0	1.64	94.13
	11/13/2013	261	<1.0	2.8	6.8	1.86	93.91
	2/3/2014	1170	<4.0	36.8	59.6	2.94	92.83
	5/21/2014	Surveyed - Not Sampled				1.13	94.66
	5/22/2014	Under Water - Not Sampled				0.81	94.93
	5/28/2014	266	<1.0	<1.0	<1.0	1.10	94.64
	8/1/2014	147	<1.0	<1.0	<1.0	0.26	95.53
	11/21/2014	12.8	<1.0	<1.0	2.2	0.92	94.87
	2/9/2015	541	<1.0	31.9	41.9	0.99	94.80



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	5/15/2015	3.6	<1.0	<1.0	<1.0	0.30	95.49
	8/28/2015	<b>18.2</b>	<1.0	<1.0	<1.0	1.03	94.76
	11/2/2015	<b>24.7</b>	<1.0	<1.0	<1.0	1.08	94.71
	2/17/2016	<b>155</b>	<1.0	2.0	<1.0	0.42	95.37
	5/25/2016	<1.00	<1.00	<1.00	<1.00	1.68	94.11
	8/31/2016	1.85	<1.00	<1.00	<1.00	0.37	95.42
	11/28/2016	<1.00	<1.00	<1.00	<1.00	1.23	94.56
	2/22/2017	4.67	<1.00	<1.00	<1.00	0.32	95.47
	5/25/2017	2.28	<1.00	<1.00	<1.00	0.14	95.65
	8/29/2017	<1.00	<1.00	<1.00	<1.00	-0.23	96.02
	11/28/2017	<1.00	<1.00	<1.00	<1.00	-0.35	96.14
	2/2/2018	<b>340</b>	20.5	6.04	27.7	1.82	97.30
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<b>41.4</b>	<1.00	<1.00	<1.00	0.30	98.82
	8/30/2018	<4.00	<4.00	<4.00	<4.00	0.35	98.77
	11/14/2018	4.33	<1.00	<1.00	<1.00	1.30	97.82
	2/11/2019	<4.00	<4.00	<4.00	<4.00	2.78	96.34
MW10	2/22/2011	<1.0	<1.0	<1.0	<1.0	NM	NA
	MW10 destroyed as of 5/26/2011						
MW10R	2/28/2012	<1.0	<1.0	<1.0	<1.0	2.48	NA
	5/15/2012	<1.0	<1.0	<1.0	<1.0	2.33	NA
	8/9/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/16/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	2/13/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	5/30/2013	<1.0	<1.0	<1.0	<1.0	0.70	NA
	MW10R destroyed as of 8/28/2013						
MW10R2	4/18/2014	<1.0	<1.0	<1.0	<1.0	5.47	NA
	5/21/2014	Surveyed - Not Sampled				1.84	91.14
	8/1/2014	<1.0	<1.0	<1.0	<1.0	0.40	95.58
	11/21/2014	<1.0	<1.0	<1.0	<1.0	1.37	94.61
	2/9/2015	<1.0	<1.0	<1.0	<1.0	1.60	94.38
	5/15/2015	<1.0	<1.0	<1.0	<1.0	0.85	95.13
	8/28/2015	<1.0	<1.0	<1.0	<1.0	1.24	94.74
	11/2/2015	<1.0	<1.0	<1.0	<1.0	1.36	94.62
	2/17/2016	<1.0	<1.0	<1.0	<1.0	0.23	95.75





**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	5/25/2016	<1.00	<1.00	<1.00	<1.00	1.87	94.11
	8/31/2016	<1.00	<1.00	<1.00	<1.00	0.06	95.92
	11/28/2016	<1.00	<1.00	<1.00	<1.00	1.89	94.09
	2/22/2017	<1.00	<1.00	<1.00	<1.00	0.99	94.99
	5/25/2017	<1.00	<1.00	<1.00	<1.00	0.85	95.13
	8/29/2017	<1.00	<1.00	<1.00	<1.00	0.77	95.21
	11/28/2017	<1.00	<1.00	<1.00	<1.00	0.61	95.37
	2/2/2018	<1.00	<1.00	<1.00	<1.00	3.02	96.34
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	1.40	97.96
	8/30/2018	<1.00	<1.00	<1.00	<1.00	1.55	97.81
	11/14/2018	<1.00	<1.00	<1.00	<1.00	2.27	97.09
	2/11/2019	<1.00	<1.00	<1.00	<1.00	3.94	95.42
MW11	2/22/2011	<1.0	<1.0	<1.0	<1.0	NM	NA
	MW11 destroyed as of 5/26/2011						
MW11R	2/28/2012	<1.0	<1.0	<1.0	<1.0	0.10	95.66
	5/15/2012	<1.0	<1.0	<1.0	<1.0	0.06	95.70
	8/9/2012	<1.0	13	<1.0	<1.0	2.82	92.94
	11/16/2012	<1.0	<b>2100</b>	<1.0	<1.0	2.77	92.99
	2/13/2013	<1.0	130	<1.0	<1.0	5.10	90.66
	5/30/2013	1.0	7.7	<1.0	<1.0	1.50	94.26
	8/28/2013	<1.0	<1.0	<1.0	<1.0	0.02	95.74
	11/13/2013	<1.0	<1.0	<1.0	<1.0	1.83	93.93
	2/3/2014	<4.0	<4.0	<4.0	<4.0	Inaccessible	NA
	5/21/2014	Surveyed - Not Sampled				0.11	95.63
	5/22/2014	Under Water - Not Sampled				-0.02	95.68
	5/28/2014	<1.0	<1.0	<1.0	<1.0	0.10	95.56
	8/1/2014	<1.0	4.3	<1.0	<1.0	0.15	95.59
	11/21/2014	1.5	<1.0	<1.0	<1.0	NM	NA
	2/9/2015	<1.0	<1.0	<1.0	<1.0	0.13	95.61
	5/15/2015	<1.0	<1.0	<1.0	<1.0	0.02	95.72
	8/28/2015	<1.0	<1.0	<1.0	<1.0	0.05	95.69
	11/2/2015	<1.0	<1.0	<1.0	<1.0	-0.14	95.88
	2/17/2016	<1.0	<1.0	<1.0	<1.0	-0.32	96.06
	5/25/2016	<1.00	<1.00	<1.00	<1.00	-0.08	95.82
	8/31/2016	<1.00	<1.00	<1.00	<1.00	-0.40	96.14



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	11/28/2016	<1.00	<1.00	<1.00	<1.00	-0.12	95.86
	2/22/2017	<1.00	<1.00	<1.00	<1.00	-0.25	95.99
	5/25/2017	<1.00	<1.00	<1.00	<1.00	-0.15	95.89
	8/29/2017	<1.00	<1.00	<1.00	<1.00	-0.66	96.40
	11/28/2017	<1.00	<1.00	<1.00	<1.00	-0.72	96.46
	2/2/2018	Not Sampled				PVC Blocked	NA
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	-0.15	99.20
	8/30/2018	<1.00	<1.00	<1.00	<1.00	-0.18	99.23
	11/14/2018	<1.00	<1.00	<1.00	<1.00	0.23	98.82
	2/11/2019	Frozen - Not Sampled				NM	NA
MW12	2/28/2012	<1.0	<1.0	<1.0	<1.0	3.09	NA
	5/15/2012	<1.0	<1.0	<1.0	<1.0	3.01	NA
	8/9/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/16/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	2/13/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	5/30/2013	<1.0	<1.0	<1.0	<1.0	0.58	NA
	8/28/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/13/2013	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	2/3/2014	Not Found - Not Sampled				Not Found	NA
MW12 destroyed as of 5/22/2014							
MW13	4/18/2014	190	<1.0	1.5	2.6	4.68	NA
	5/21/2014	Surveyed - Not Sampled				2.52	93.50
	5/22/2014	Not Sampled				2.81	93.91
	8/1/2014	30.4	<1.0	<1.0	<1.0	2.27	93.75
	11/21/2014	87.6	<1.0	<1.0	<1.0	1.92	94.10
	2/9/2015	550	<1.0	1.7	<1.0	2.45	93.57
	5/15/2015	185	<1.0	<1.0	<1.0	0.84	95.18
	8/28/2015	240	<4.0	<4.0	<4.0	1.81	94.21
	11/2/2015	25.9	<4.0	<4.0	<4.0	2.03	93.99
	2/17/2016	86.1	<1.0	<1.0	<1.0	0.99	95.03
	5/25/2016	8.87	<1.00	<1.00	7.79	2.92	93.10
	8/31/2016	3.55	<1.00	<1.00	<1.00	1.69	94.33
	11/28/2016	<1.00	<1.00	<1.00	<1.00	2.27	93.75
	2/22/2017	33.7	<1.00	<1.00	<1.00	2.34	93.68
	5/25/2017	<1.00	<1.00	<1.00	<1.00	0.80	95.22



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**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/29/2017	<1.00	<1.00	<1.00	<1.00	2.02	94.00
	11/28/2017	<1.00	<1.00	<1.00	<1.00	1.95	94.07
	2/2/2018	<1.00	<1.00	<1.00	<1.00	2.50	96.80
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	2.02	97.28
	8/30/2018	<1.00	<1.00	<1.00	<1.00	2.05	97.25
	11/14/2018	<1.00	<1.00	<1.00	<1.00	2.79	96.51
	2/11/2019	<1.00	<1.00	<1.00	<1.00	3.49	95.81
MW14	4/18/2014	<1.0	<1.0	<1.0	<1.0	6.76	NA
	5/21/2014	Surveyed - Not Sampled				3.44	93.68
	5/22/2014	Not Sampled				4.33	94.64
	8/1/2014	<1.0	<1.0	<1.0	<1.0	1.27	95.85
	11/21/2014	<1.0	<1.0	<1.0	<1.0	3.10	94.02
	2/9/2015	<1.0	<1.0	<1.0	<1.0	3.68	93.44
	5/15/2015	<1.0	<1.0	<1.0	<1.0	1.71	95.41
	8/28/2015	<1.0	<1.0	<1.0	<1.0	2.87	94.25
	11/2/2015	<1.0	<1.0	<1.0	<1.0	2.96	94.16
	2/17/2016	<1.0	<1.0	<1.0	<1.0	2.01	95.11
	5/25/2016	<1.00	<1.00	<1.00	<1.00	3.90	93.22
	8/31/2016	<1.00	<1.00	<1.00	<1.00	3.21	93.91
	11/28/2016	<1.00	<1.00	<1.00	<1.00	3.76	93.36
	2/22/2017	<1.00	<1.00	<1.00	<1.00	4.01	93.11
	5/25/2017	<1.00	<1.00	<1.00	<1.00	2.18	94.94
	8/29/2017	<1.00	<1.00	<1.00	<1.00	3.58	93.54
	11/28/2017	<1.00	<1.00	<1.00	<1.00	3.46	93.66
	2/2/2018	<1.00	<1.00	<1.00	<1.00	4.14	96.25
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	3.43	96.96
	8/30/2018	<1.00	<1.00	<1.00	<1.00	3.39	97.00
	11/14/2018	<1.00	<1.00	<1.00	<1.00	3.90	96.49
	2/11/2019	<1.00	<1.00	<1.00	<1.00	4.53	95.86
MW15	4/18/2014	<1.0	<1.0	<1.0	<1.0	6.60	NA
	5/21/2014	Surveyed - Not Sampled				3.32	93.81
	5/22/2014	Not Sampled				5.18	94.19
	8/1/2014	<1.0	<1.0	<1.0	<1.0	1.26	95.87
	11/21/2014	<1.0	<1.0	<1.0	<1.0	2.99	94.14



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	2/9/2015	<1.0	<1.0	<1.0	<1.0	3.37	93.76
	5/15/2015	<1.0	<1.0	<1.0	<1.0	1.36	95.77
	8/28/2015	<1.0	<1.0	<1.0	<1.0	3.02	94.11
	11/2/2015	<1.0	<1.0	<1.0	<1.0	2.87	94.26
	2/17/2016	<1.0	<1.0	<1.0	<1.0	1.62	95.51
	5/25/2016	<1.00	<1.00	<1.00	<1.00	3.37	93.76
	8/31/2016	<1.00	<1.00	<1.00	<1.00	2.93	94.20
	11/28/2016	<1.00	<1.00	<1.00	<1.00	3.47	93.66
	2/22/2017	<1.00	<1.00	<1.00	<1.00	3.62	93.51
	5/25/2017	<1.00	<1.00	<1.00	<1.00	2.15	94.98
	8/29/2017	<1.00	<1.00	<1.00	<1.00	2.66	94.47
	11/28/2017	<1.00	<1.00	<1.00	<1.00	2.76	94.37
	2/2/2018	<1.00	<1.00	<1.00	<1.00	3.65	96.78
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	<1.00	<1.00	<1.00	<1.00	3.14	97.29
	8/30/2018	<1.00	<1.00	<1.00	<1.00	3.36	97.07
	11/14/2018	<1.00	<1.00	<1.00	<1.00	3.51	96.92
	2/11/2019	<1.00	<1.00	<1.00	<1.00	3.99	96.44
<hr/>							
MW16	8/1/2014	<1.0	<1.0	<1.0	<1.0	4.18	NA
	11/21/2014	<1.0	<1.0	<1.0	<1.0	6.06	NA
	2/9/2015	<b>11.8</b>	<1.0	<1.0	<1.0	6.41	NA
	5/15/2015	4.0	<1.0	<1.0	<1.0	4.85	NA
	8/28/2015	<1.0	<1.0	<1.0	<1.0	5.54	NA
	11/2/2015	<1.0	<1.0	<1.0	<1.0	5.89	NA
	2/17/2016	<1.0	<1.0	<1.0	<1.0	4.26	NA
	5/25/2016	<1.00	<1.00	<1.00	<1.00	6.76	NA
	8/31/2016	<1.00	<1.00	<1.00	<1.00	4.85	NA
	11/28/2016	<1.00	<1.00	<1.00	<1.00	2.94	NA
	2/22/2017	<1.00	<1.00	<1.00	<1.00	2.70	NA
	5/25/2017	4.31	<1.00	<1.00	<1.00	1.58	NA
	8/29/2017	<1.00	<1.00	<1.00	<1.00	2.28	NA
	11/28/2017	<1.00	<1.00	<1.00	<1.00	2.32	NA
	2/2/2018	<b>5.84</b>	<1.00	<1.00	<1.00	3.66	95.84
	4/10/2018	Surveyed - Not Sampled				NM	NA
	5/31/2018	1.84	<1.00	<1.00	<1.00	2.62	96.88
	8/30/2018	<1.00	<1.00	<1.00	<1.00	2.65	96.85
	11/14/2018	<1.00	<1.00	<1.00	<1.00	3.12	96.38



**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	2/11/2019	<1.00	<1.00	<1.00	<1.00	4.28	95.22

<b>COGCC Allowable Levels</b>	<b>5</b>	<b>1000</b>	<b>700</b>	<b>1400</b>
-------------------------------	----------	-------------	------------	-------------

Notes: COGCC - Colorado Oil and Gas Conservation Commission  
ft bgs - feet below ground surface  
NA - not analyzed/not available  
NM - not measured

µg/L - micrograms per liter  
< - less than laboratory reporting limit  
Bold indicates result exceeds allowable level  
Excavation groundwater depth is approximate



**TABLE 2**  
**SURFACE WATER ANALYTICAL RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
SW01	03/11/2010	260	1000	48	1100
SW02	03/16/2010	160	270	34	750
SW03	03/16/2010	<1.0	<20	<1.0	<1.0
	05/26/2011	<1.0	<1.0	<1.0	<1.0
	11/18/2011	<1.0	<1.0	<1.0	<1.0
	02/13/2012	<1.0	<1.0	<1.0	<1.0
	05/15/2012	<1.0	<1.0	<1.0	<1.0
	08/09/2012	<1.0	1.9	<1.0	<1.0
	11/16/2012	<1.0	<1.0	<1.0	<1.0
	02/13/2013	Frozen - Not Sampled			
	05/30/2013	<1.0	<1.0	<1.0	<1.0
	08/28/2013	<1.0	<1.0	<1.0	<1.0
	11/13/2013	<1.0	<1.0	<1.0	<1.0
	02/03/2014	Frozen - Not Sampled			
	05/22/2014	<1.0	<1.0	<1.0	<1.0
	08/01/2014	<1.0	<1.0	<1.0	<1.0
	11/21/2014	Frozen - Not Sampled			
	02/09/2015	<1.0	<1.0	<1.0	<1.0
	05/15/2015	<1.0	<1.0	<1.0	<1.0
	08/28/2015	<1.0	<1.0	<1.0	<1.0
	11/02/2015	<1.0	<1.0	<1.0	<1.0
	02/17/2016	Frozen - Not Sampled			
	05/25/2016	<1.00	<1.00	<1.00	<1.00
	08/31/2016	<1.00	<1.00	<1.00	<1.00
	11/28/2016	<1.00	<1.00	<1.00	<1.00
	02/22/2017	<1.00	<1.00	<1.00	<1.00
	5/25/2017	<1.00	<1.00	<1.00	<1.00
	8/29/2017	<1.00	<1.00	<1.00	<1.00
	11/28/2017	<1.00	<1.00	<1.00	<1.00
	2/2/2018	<1.00	<1.00	<1.00	<1.00
	5/31/2018	<1.00	<1.00	<1.00	<1.00
	8/30/2018	<1.00	<1.00	<1.00	<1.00
	11/14/2018	<1.00	<1.00	<1.00	<1.00
	2/11/2019	Frozen - Not Sampled			



**TABLE 2**  
**SURFACE WATER ANALYTICAL RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
SW04	03/16/2010	<1.0	<1.0	<1.0	<1.0
SW05	03/16/2010	<1.0	1.5	<1.0	<1.0
SW06	03/29/2010	<1.0	<1.0	<1.0	<1.0
SW07	05/26/2011	<1.0	<1.0	<1.0	<1.0
	11/18/2011	<1.0	<1.0	<1.0	<1.0
	02/13/2012	<1.0	<1.0	<1.0	<1.0
	05/15/2012	<1.0	<1.0	<1.0	<1.0
	08/09/2012	<1.0	<1.0	<1.0	<1.0
	11/16/2012	<1.0	<1.0	<1.0	<1.0
	02/13/2013	Frozen - Not Sampled			
	05/30/2013	<1.0	<1.0	<1.0	<1.0
	08/28/2013	<1.0	<1.0	<1.0	<1.0
	11/13/2013	<1.0	<1.0	<1.0	<1.0
	02/03/2014	Frozen - Not Sampled			
	05/22/2014	<1.0	<1.0	<1.0	<1.0
	08/01/2014	<1.0	<1.0	<1.0	<1.0
	11/21/2014	Frozen - Not Sampled			
	02/09/2015	<1.0	<1.0	<1.0	<1.0
	05/15/2015	<1.0	<1.0	<1.0	<1.0
	08/28/2015	<1.0	<1.0	<1.0	<1.0
	11/02/2015	<1.0	<1.0	<1.0	<1.0
	02/17/2016	Frozen - Not Sampled			
	05/25/2016	<1.00	<1.00	<1.00	<1.00
	08/31/2016	<1.00	<1.00	<1.00	<1.00
	11/28/2016	<1.00	<1.00	<1.00	<1.00
	2/22/2017	<1.00	<1.00	<1.00	<1.00
	5/25/2017	3.21	<1.00	<1.00	<1.00
	8/29/2017	<1.00	<1.00	<1.00	<1.00
	11/28/2017	<1.00	<1.00	<1.00	<1.00
	2/2/2018	<1.00	<1.00	<1.00	<1.00
	5/31/2018	<1.00	<1.00	<1.00	<1.00
	8/30/2018	<1.00	<1.00	<1.00	<1.00



**TABLE 2**  
**SURFACE WATER ANALYTICAL RESULTS**  
**ARISTOCRAT ANGUS RANCH #1**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
	11/14/2018	<1.00	<1.00	<1.00	<1.00
	2/11/2019	Frozen - Not Sampled			

Notes: COGCC - Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

< - less than laboratory reporting limit







September 05, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Aristocrat Angus Ranch #1    Project Number - KMG05113/WO #884385**

Attached are your analytical results for KMG - Aristocrat Angus Ranch #1 received by Origins Laboratory, Inc. August 30, 2018. This project is associated with Origins project number Y808468-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW03R	Y808468-01	Water	August 30, 2018 12:45	08/30/2018 15:50
MW05	Y808468-02	Water	August 30, 2018 12:50	08/30/2018 15:50
MW06	Y808468-03	Water	August 30, 2018 12:55	08/30/2018 15:50
MW07	Y808468-04	Water	August 30, 2018 13:00	08/30/2018 15:50
MW08	Y808468-05	Water	August 30, 2018 13:05	08/30/2018 15:50
MW09	Y808468-06	Water	August 30, 2018 13:10	08/30/2018 15:50
MW10R2	Y808468-07	Water	August 30, 2018 13:15	08/30/2018 15:50
MW11R	Y808468-08	Water	August 30, 2018 13:20	08/30/2018 15:50
MW13	Y808468-09	Water	August 30, 2018 13:25	08/30/2018 15:50
MW14	Y808468-10	Water	August 30, 2018 13:30	08/30/2018 15:50
MW15	Y808468-11	Water	August 30, 2018 13:35	08/30/2018 15:50
MW16	Y808468-12	Water	August 30, 2018 13:40	08/30/2018 15:50
SW03	Y808468-13	Water	August 30, 2018 13:45	08/30/2018 15:50
SW07	Y808468-14	Water	August 30, 2018 13:50	08/30/2018 15:50

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Brian Sulzberger

Project Number: KMG05113/WO #88438534

Project: KMG - Aristocrat Angus Ranch #1

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Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

ORIGINS  
LABORATORY, INC

1008468

1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

12-001	MW16	Water	8/30/18 1340	GT	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	SW03	Water	1315	✓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
14-001	SW07	Water	1350	✓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: 7.1  
Turn Around Time:  
Same Day: ☐ 72-hr: ☐ Standard: ☒  
24-hr: ☐ 48-hr: ☐

Relinquished By: [Signature] Date / Time: 9/30/18  
Received By: [Signature] Date / Time: 9/30/18

Relinquished By: [Signature] Date / Time: 8/30/18 1550  
Received By: [Signature] Date / Time: 8/30/18 1550

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: Y808468

Client: LTE

Client Project ID: KMG - Aristocrat Angus Ranch

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/31/2018

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1 / 7.9 °C 1 / 1 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JG

Date/Time Reviewed 9/4/18

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW03R

8/30/2018 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-01 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	215	4.00	"	4	"	KDK	"	09/04/2018	
Ethylbenzene	ND	1.00	"	1	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW05

8/30/2018 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-02 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.1 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW06

8/30/2018 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-03 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	98.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW07

8/30/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-04 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW08

8/30/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW09

8/30/2018 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-06 (Water)

### BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW10R2

8/30/2018 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-07 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	"	"	"
Surrogate: Toluene-d8	99.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW11R

8/30/2018 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-08 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW13

8/30/2018 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-09 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	98.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

MW14

8/30/2018 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y808468-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW15

8/30/2018 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-11 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW16

8/30/2018 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-12 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## SW03

8/30/2018 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-13 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## SW07

8/30/2018 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y808468-14 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B810401	KDK	09/04/2018	09/04/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	84-114	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B810401 - EPA 5030B (Water)**

**Blank (B810401-BLK1)**

Prepared: 09/04/2018 Analyzed: 09/04/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		84-121			
Surrogate: Toluene-d8	64		"	62.5	102		85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5	107		84-114			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8I0401 - EPA 5030B (Water)**

**LCS (B8I0401-BS1)**

Prepared: 09/04/2018 Analyzed: 09/04/2018

Benzene	55.7	1.00	ug/L	50.0	111	73.3-129
Toluene	58.2	1.00	"	50.0	116	76.2-123
Ethylbenzene	58.5	1.00	"	50.0	117	73.6-130
m,p-Xylene	115	2.00	"	100	115	76.1-126
o-Xylene	57.6	1.00	"	50.0	115	76.6-124
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107	84-121
Surrogate: Toluene-d8	63		"	62.5	101	85-115
Surrogate: 4-Bromofluorobenzene	68		"	62.5	110	84-114

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8I0401 - EPA 5030B (Water)**

Matrix Spike (B8I0401-MS1)		Source: Y808458-01			Prepared: 09/04/2018 Analyzed: 09/04/2018					
Benzene	62.9	1.00	ug/L	50.0	0.750	124	74-130			
Toluene	64.8	1.00	"	50.0	ND	130	73-131			
Ethylbenzene	65.2	1.00	"	50.0	0.650	129	76-132			
m,p-Xylene	130	2.00	"	100	1.51	128	69-139			
o-Xylene	63.0	1.00	"	50.0	0.160	126	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	84-114			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8I0401 - EPA 5030B (Water)**

Matrix Spike Dup (B8I0401-MSD1)		Source: Y808458-01			Prepared: 09/04/2018 Analyzed: 09/04/2018					
Benzene	63.3	1.00	ug/L	50.0	0.750	125	74-130	0.602	20	
Toluene	64.4	1.00	"	50.0	ND	129	73-131	0.603	20	
Ethylbenzene	64.5	1.00	"	50.0	0.650	128	76-132	1.14	20	
m,p-Xylene	129	2.00	"	100	1.51	128	69-139	0.100	20	
o-Xylene	61.9	1.00	"	50.0	0.160	123	74-131	1.79	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



November 19, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Aristocrat Angus Ranch #1    Project Number - KMG05113/WO #884385**

Attached are your analytical results for KMG - Aristocrat Angus Ranch #1 received by Origins Laboratory, Inc. November 14, 2018. This project is associated with Origins project number Y811231-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW03R	Y811231-01	Water	November 14, 2018 13:00	11/14/2018 17:00
MW05	Y811231-02	Water	November 14, 2018 13:05	11/14/2018 17:00
MW06	Y811231-03	Water	November 14, 2018 13:10	11/14/2018 17:00
MW07	Y811231-04	Water	November 14, 2018 13:15	11/14/2018 17:00
MW08	Y811231-05	Water	November 14, 2018 13:20	11/14/2018 17:00
MW09	Y811231-06	Water	November 14, 2018 13:25	11/14/2018 17:00
MW10R2	Y811231-07	Water	November 14, 2018 13:30	11/14/2018 17:00
MW11R	Y811231-08	Water	November 14, 2018 13:35	11/14/2018 17:00
MW13	Y811231-09	Water	November 14, 2018 13:40	11/14/2018 17:00
MW14	Y811231-10	Water	November 14, 2018 13:45	11/14/2018 17:00
MW15	Y811231-11	Water	November 14, 2018 13:50	11/14/2018 17:00
MW16	Y811231-12	Water	November 14, 2018 13:55	11/14/2018 17:00
SW03	Y811231-13	Water	November 14, 2018 14:00	11/14/2018 17:00
SW07	Y811231-14	Water	November 14, 2018 14:05	11/14/2018 17:00

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Brian Sulzberger

Project Number: KMG05113/WO #88438534

Project: KMG - Aristocrat Angus Ranch #1

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

ORIGINS  
LABORATORY, INC

1811231

1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger  
Project: KMG - Aristocrat Angus Ranch #1 Project Number: KMG05113/WO #88438534

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM03R	Water	11-14-18	1300	GT	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MM05	Water		1305		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MM06	Water		1310		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MM07	Water		1315		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MM08	Water		1320		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MM09	Water		1325		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MM10R2	Water		1330		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MM11R	Water		1335		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
09-001	MM13	Water		1340		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
10-001	MM14	Water		1345		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
11-001	MM15	Water		1350		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: [Signature] Date / Time: 11/14/18 1700  
Received By: [Signature] Date / Time: 11/14/18 1700

Temperature on Receipt: 6.1  
Turn Around Time: ☐ 72-hr ☒ Standard ☐ 24-hr ☐ 48-hr

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003


Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1


ORIGINS  
LABORATORY, INC

Y811231

1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

12-001	MW16	Water	11-14-18	1355	Gr	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	SW03	Water	↑	1400	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
14-001	SW07	Water	↑	1405	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By  Date / Time 11-14-18 1700  
Received By \_\_\_\_\_ Date / Time \_\_\_\_\_

Relinquished By  Date / Time 11/14/18 1700  
Received By \_\_\_\_\_ Date / Time \_\_\_\_\_

Temperature on Receipt: 6.1  
Turn Around Time: ☐ Same Day: ☐ 24-hr ☒ 72-hr ☐ Standard ☐ 48-hr

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: y811231

Client: LTE

Client Project ID: KMG - Aristocrat Angus Ranch

Checklist Completed by: JG

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/15/2018

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐ (Describe)

Cooler Number/Temperature: 1 / 6.1 °C 1 / 6.1 °C 1 / 6.1 °C 1 / 6.1 °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – Is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JG

11/16/18  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

MW03R

11/14/2018 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y811231-01 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	97.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114	"	"	"

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW05

11/14/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-02 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	98.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114	"	"	"

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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW06

11/14/2018 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-03 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	97.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114	"	"	"

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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW07

11/14/2018 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-04 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	97.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114	"	"	"

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Project: KMG - Aristocrat Angus Ranch #1

## MW08

11/14/2018 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	99.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114	"	"	"

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Project: KMG - Aristocrat Angus Ranch #1

## MW09

11/14/2018 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-06 (Water)

### BTEX by EPA 8260C

Benzene	4.33	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"
Surrogate: Toluene-d8	98.4 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"	"

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Project: KMG - Aristocrat Angus Ranch #1

## MW10R2

11/14/2018 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-07 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	96.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.5 %	84-114	"	"	"

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Project: KMG - Aristocrat Angus Ranch #1

## MW11R

11/14/2018 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-08 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	98.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114	"	"	"

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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW13

11/14/2018 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-09 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121	"	"	"
Surrogate: Toluene-d8	97.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114	"	"	"

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Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW14

11/14/2018 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-10 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	98.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114	"	"	"

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Project: KMG - Aristocrat Angus Ranch #1

## MW15

11/14/2018 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-11 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121	"	"	"
Surrogate: Toluene-d8	98.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
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Project: KMG - Aristocrat Angus Ranch #1

## MW16

11/14/2018 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-12 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121	"	"	"
Surrogate: Toluene-d8	96.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## SW03

11/14/2018 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-13 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	97.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## SW07

11/14/2018 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y811231-14 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K1505	KDK	11/15/2018	11/15/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121	"	"	"
Surrogate: Toluene-d8	97.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8K1505 - EPA 5030B (Water)**

**Blank (B8K1505-BLK1)**

Prepared: 11/15/2018 Analyzed: 11/15/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5	106		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.6		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.1		84-114			

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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B8K1505 - EPA 5030B (Water)</b>										
<b>Blank (B8K1505-BLK2)</b>					Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5	110		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.6		85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.6		84-114			

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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B8K1505 - EPA 5030B (Water)</b>										
<b>LCS (B8K1505-BS1)</b>					Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	53.4	1.00	ug/L	50.0		107	73.3-129			
Toluene	51.4	1.00	"	50.0		103	76.2-123			
Ethylbenzene	51.9	1.00	"	50.0		104	73.6-130			
m,p-Xylene	105	2.00	"	100		105	76.1-126			
o-Xylene	53.9	1.00	"	50.0		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	84-114			

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Arvada CO 80003

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Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8K1505 - EPA 5030B (Water)**

**LCS (B8K1505-BS2)**

Prepared: 11/15/2018 Analyzed: 11/15/2018

Benzene	58.3	1.00	ug/L	50.0	117	73.3-129
Toluene	56.7	1.00	"	50.0	113	76.2-123
Ethylbenzene	57.2	1.00	"	50.0	114	73.6-130
m,p-Xylene	115	2.00	"	100	115	76.1-126
o-Xylene	57.9	1.00	"	50.0	116	76.6-124
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.2	84-121
Surrogate: Toluene-d8	62		"	62.5	100	85-115
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.9	84-114

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8K1505 - EPA 5030B (Water)**

Matrix Spike (B8K1505-MS1)		Source: Y811231-03			Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	61.0	1.00	ug/L	50.0	ND	122	74-130			
Toluene	59.5	1.00	"	50.0	ND	119	73-131			
Ethylbenzene	60.4	1.00	"	50.0	ND	121	76-132			
m,p-Xylene	121	2.00	"	100	ND	121	69-139			
o-Xylene	61.0	1.00	"	50.0	ND	122	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.9	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.8	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	84-114			

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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8K1505 - EPA 5030B (Water)**

Matrix Spike (B8K1505-MS2)		Source: Y811231-04			Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	58.6	1.00	ug/L	50.0	ND	117	74-130			
Toluene	56.9	1.00	"	50.0	ND	114	73-131			
Ethylbenzene	57.2	1.00	"	50.0	ND	114	76-132			
m,p-Xylene	116	2.00	"	100	ND	116	69-139			
o-Xylene	59.3	1.00	"	50.0	ND	119	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.3	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	84-114			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B8K1505 - EPA 5030B (Water)**

Matrix Spike Dup (B8K1505-MSD1)		Source: Y811231-03			Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	58.4	1.00	ug/L	50.0	ND	117	74-130	4.32	20	
Toluene	56.3	1.00	"	50.0	ND	113	73-131	5.51	20	
Ethylbenzene	56.2	1.00	"	50.0	ND	112	76-132	7.12	20	
m,p-Xylene	115	2.00	"	100	ND	115	69-139	5.57	20	
o-Xylene	58.7	1.00	"	50.0	ND	117	74-131	3.86	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.1	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114			

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B8K1505 - EPA 5030B (Water)**

Matrix Spike Dup (B8K1505-MSD2)		Source: Y811231-04			Prepared: 11/15/2018 Analyzed: 11/15/2018					
Benzene	61.5	1.00	ug/L	50.0	ND	123	74-130	4.84	20	
Toluene	59.6	1.00	"	50.0	ND	119	73-131	4.55	20	
Ethylbenzene	60.1	1.00	"	50.0	ND	120	76-132	4.81	20	
m,p-Xylene	121	2.00	"	100	ND	121	69-139	4.83	20	
o-Xylene	60.5	1.00	"	50.0	ND	121	74-131	1.95	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.7	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.4	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	84-114			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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February 14, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Aristocrat Angus Ranch #1    Project Number - KMG05113/WO #884385**

Attached are your analytical results for KMG - Aristocrat Angus Ranch #1 received by Origins Laboratory, Inc. February 11, 2019. This project is associated with Origins project number Y902129-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW03R	Y902129-01	Water	February 11, 2019 11:00	02/11/2019 16:10
MW05	Y902129-02	Water	February 11, 2019 11:05	02/11/2019 16:10
MW06	Y902129-03	Water	February 11, 2019 11:10	02/11/2019 16:10
MW08	Y902129-04	Water	February 11, 2019 11:20	02/11/2019 16:10
MW09	Y902129-05	Water	February 11, 2019 11:25	02/11/2019 16:10
MW10R2	Y902129-06	Water	February 11, 2019 11:30	02/11/2019 16:10
MW13	Y902129-07	Water	February 11, 2019 11:40	02/11/2019 16:10
MW14	Y902129-08	Water	February 11, 2019 11:45	02/11/2019 16:10
MW15	Y902129-09	Water	February 11, 2019 11:50	02/11/2019 16:10
MW16	Y902129-10	Water	February 11, 2019 11:55	02/11/2019 16:10

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

# ORIGINS

LABORATORY, INC

1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

Client: LT Environmental, Inc.  
Project: KMG - Aristocrat Angus Ranch #1  
Project Manager: Brian Sulzberger  
Project Number: KMG05113/WO #88438534

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW03R	Water	2-11-19	1100	DT/RT	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MW05	Water	↓	1105	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW06	Water	↓	1110	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW07	Water	↓	↓	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW08	Water	2-11-19	1120	DT/RT	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW09	Water	↓	1125	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MW10R2	Water	↓	1130	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MW11R	Water	↓	↓	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
09-001	MW13	Water	2-11-19	1140	DT/RT	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
10-001	MW14	Water	↓	1145	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
11-001	MW15	Water	↓	1150	↓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: [Signature] Date/Time: 2-11-19 1600  
Received By: [Signature] Date/Time: 2-11-19 1610

Temperature on Receipt: 5.6  
Turn Around Time: Same Day: ☐ 72-hr: ☐ Standard: ☒

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1


ORIGINS  
LABORATORY, INC


Y900129

2/2

1725 Elk Place, Denver, CO 80211  
Laboratory # - 303.433.1322

12-001	MW16	Water	2-11-19	1155	5/RT	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	SW03	Water	/	/	/	40mL Amber VOA Vial - HC	30	BTEX by EPA 8260C
14-001	SW07	Water	/	/	/	40mL Amber VOA Vial - HC	30	BTEX by EPA 8260C

Relinquished By  Date / Time 2-11-19 / 1600  
Revised By \_\_\_\_\_ Date / Time \_\_\_\_\_

Relinquished By  Date / Time 2/11/19 / 1610  
Revised By \_\_\_\_\_ Date / Time \_\_\_\_\_

Temperature on Receipt: 56  
Turn Around Time: ☐ Same Day ☐ 72-hr ☒ Standard  
24-hr

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: 4902129

Client: LTE

Client Project ID: KMG - Aristocrat Angus Ranch

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2 / 12 / 2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1 5.6 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

2/13/19  
Date/Time/Reviewed

Origins Laboratory, Inc.

[Signature]

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW03R

2/11/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y902129-01 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/12/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW05

2/11/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

## Origins Laboratory, Inc. Y902129-02 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/12/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW06

2/11/2019 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y902129-03 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/12/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

MW08

2/11/2019 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y902129-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW09

2/11/2019 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y902129-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9B1207	JTD	02/12/2019	02/13/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW10R2

2/11/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y902129-06 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW13

2/11/2019 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y902129-07 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW14

2/11/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y902129-08 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	99.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW15

2/11/2019 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y902129-09 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

## MW16

2/11/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y902129-10 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9B1207	JTD	02/12/2019	02/13/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	99.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	84-114	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05113/WO #88438534  
Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9B1207 - EPA 5030B (Water)**

**Blank (B9B1207-BLK1)**

Prepared: 02/12/2019 Analyzed: 02/12/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		84-121			
Surrogate: Toluene-d8	63		"	62.5	100		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.2		84-114			

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Project: KMG - Aristocrat Angus Ranch #1

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9B1207 - EPA 5030B (Water)</b>										
<b>Blank (B9B1207-BLK2)</b>					Prepared: 02/12/2019 Analyzed: 02/12/2019					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	101		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.2		84-114			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9B1207 - EPA 5030B (Water)**

**LCS (B9B1207-BS1)**

Prepared: 02/12/2019 Analyzed: 02/12/2019

Benzene	49.9	1.00	ug/L	50.0		99.7	73.3-129			
Toluene	51.0	1.00	"	50.0		102	76.2-123			
Ethylbenzene	52.0	1.00	"	50.0		104	73.6-130			
m,p-Xylene	104	2.00	"	100		104	76.1-126			
o-Xylene	52.8	1.00	"	50.0		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	84-114			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9B1207 - EPA 5030B (Water)**

**LCS (B9B1207-BS2)**

Prepared: 02/12/2019 Analyzed: 02/12/2019

Benzene	47.2	1.00	ug/L	50.0		94.4	73.3-129
Toluene	47.8	1.00	"	50.0		95.6	76.2-123
Ethylbenzene	48.7	1.00	"	50.0		97.5	73.6-130
m,p-Xylene	101	2.00	"	100		101	76.1-126
o-Xylene	50.6	1.00	"	50.0		101	76.6-124
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	84-121
Surrogate: Toluene-d8	63		"	62.5		101	85-115
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9B1207 - EPA 5030B (Water)**

Matrix Spike (B9B1207-MS1)		Source: Y902129-01			Prepared: 02/12/2019 Analyzed: 02/12/2019					
Benzene	49.9	1.00	ug/L	50.0	ND	99.8	74-130			
Toluene	50.2	1.00	"	50.0	ND	100	73-131			
Ethylbenzene	50.8	1.00	"	50.0	ND	102	76-132			
m,p-Xylene	104	2.00	"	100	ND	104	69-139			
o-Xylene	53.5	1.00	"	50.0	ND	107	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	84-114			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9B1207 - EPA 5030B (Water)**

Matrix Spike (B9B1207-MS2)		Source: Y902129-02			Prepared: 02/12/2019 Analyzed: 02/12/2019					
Benzene	48.9	1.00	ug/L	50.0	ND	97.8	74-130			
Toluene	49.9	1.00	"	50.0	ND	99.9	73-131			
Ethylbenzene	50.1	1.00	"	50.0	ND	100	76-132			
m,p-Xylene	101	2.00	"	100	ND	101	69-139			
o-Xylene	52.4	1.00	"	50.0	ND	105	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	84-114			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9B1207 - EPA 5030B (Water)**

Matrix Spike Dup (B9B1207-MSD1)		Source: Y902129-01			Prepared: 02/12/2019 Analyzed: 02/12/2019					
Benzene	45.8	1.00	ug/L	50.0	ND	91.6	74-130	8.57	20	
Toluene	47.4	1.00	"	50.0	ND	94.9	73-131	5.69	20	
Ethylbenzene	48.1	1.00	"	50.0	ND	96.1	76-132	5.42	20	
m,p-Xylene	97.3	2.00	"	100	ND	97.3	69-139	6.61	20	
o-Xylene	50.3	1.00	"	50.0	ND	101	74-131	6.09	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.8	84-114			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9B1207 - EPA 5030B (Water)**

Matrix Spike Dup (B9B1207-MSD2)		Source: Y902129-02			Prepared: 02/12/2019 Analyzed: 02/12/2019					
Benzene	47.3	1.00	ug/L	50.0	ND	94.6	74-130	3.26	20	
Toluene	48.0	1.00	"	50.0	ND	96.1	73-131	3.86	20	
Ethylbenzene	47.9	1.00	"	50.0	ND	95.8	76-132	4.53	20	
m,p-Xylene	96.3	2.00	"	100	ND	96.3	69-139	4.83	20	
o-Xylene	49.7	1.00	"	50.0	ND	99.5	74-131	5.17	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	84-114			

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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