



## **FIGURES**

**Figure 1: Monitoring Well Groundwater Analytical Map (03/13/18 & 03/16/18)**

**Figure 2: Groundwater Elevation Map (03/13/18)**

**Figure 3: Grab Surface Water Sample Location Map (03/16/18)**



**LEGEND**

APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE

APPROXIMATE FLOW LINE LOCATION

APPROXIMATE EXCAVATION BOUNDARIES

APPROXIMATE MONITORING WELL LOCATIONS

DESTROYED MONITORING WELL LOCATIONS

**PARAMETERS**

**SAMPLE LOCATION**  
DATE  
B = BENZENE (µg/L)  
T = TOLUENE (µg/L)  
E = ETHYLBENZENE (µg/L)  
X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 910-1 REGULATORY LIMITS

COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION

NOTE:  
GROUNDWATER SAMPLES FROM MONITORING WELLS MW-01R THROUGH MW-06 WERE COLLECTED ON 03/13/18. GROUNDWATER SAMPLES FROM MONITORING WELLS MW-07 THROUGH MW-17R WERE COLLECTED ON 03/16/18.

0 30'  
**APPROXIMATE SCALE IN FEET**

**MONITORING WELL GROUNDWATER ANALYTICAL MAP**  
(03/13/18 & 03/16/18)  
WARDLAW #20-28  
FLOW LINE RELEASE  
40.452377 / -104.550395  
SE1/4 SE1/4 SEC.28 T6N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDATION # 10185

DATE 04/10/18	
FIG. NO. 1	DRAWN BY AMN

**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.  
4101 INCA STREET, DENVER, CO 80211  
Ph: 303-433-0479 • F: 303-325-5449



**LEGEND**

APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE

APPROXIMATE FLOW LINE LOCATION

APPROXIMATE EXCAVATION BOUNDARIES

APPROXIMATE MONITORING WELL LOCATIONS

DESTROYED MONITORING WELL LOCATIONS

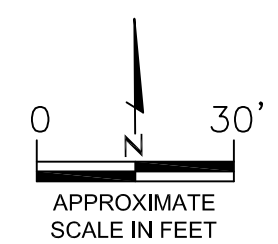
(4748.25) GROUNDWATER ELEVATION (FT.)

INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)

APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:  
GROUNDWATER ELEVATION DATA WAS COLLECTED ON 03/13/18.  
GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING  
WELLS MW-01R, MW-07, AND MW-14 WAS NOT USED IN THE  
CONSTRUCTION OF INFERRED GROUNDWATER ELEVATION CONTOURS.



**GROUNDWATER ELEVATION MAP**  
**(03/13/18)**  
WARDLAW #20-28  
FLOW LINE RELEASE  
40.452377 / -104.550395  
SE1/4 SE1/4 SEC.28 T6N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDATION # 10185

DATE	04/10/18
FIG. NO.	2

DRAWN BY  
AMN

**EAGLE**  
ENVIRONMENTAL  
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## **TABLES**

**Table 1: Water Analytical Results Summary**

**Table 2: Groundwater Elevation Summary**

**TABLE 1**  
**WATER ANALYTICAL RESULTS SUMMARY**  
**WARDLAW #20-28**  
**FLOW LINE RELEASE**  
**40.452377 / -104.550395**  
**SE1/4 SE1/4 SEC.28 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**REMEDATION # 10185**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
SW-01 (40.452432487/-104.550326268)	02/09/17	<1.00	2.54	<1.00	2.58
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
SW-02 (40.451283697/-104.550667387)	02/09/17	<b>100</b>	514	54.9	659
	02/13/17	<b>11.3</b>	83.8	9.64	240
	02/20/17	<1.00	<1.00	<1.00	3.18
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
SW-03 (40.451208284/-104.550759293)	02/09/17	<b>90.7</b>	459	48.8	605
	02/10/17	<b>6.24</b>	40.2	4.92	109
	02/13/17	<b>8.52</b>	42.8	4.36	152
	02/20/17	<1.00	<1.00	<1.00	2.45
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
SW-04 (40.450779462/-104.551161230)	02/10/17	4.92	28.4	<4.00	90.9
	02/13/17	<b>6.80</b>	32.0	<4.00	147
	02/20/17	<1.00	<1.00	<1.00	1.49
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00

**TABLE 1**  
**WATER ANALYTICAL RESULTS SUMMARY**  
**WARDLAW #20-28**  
**FLOW LINE RELEASE**  
**40.452377 / -104.550395**  
**SE1/4 SE1/4 SEC.28 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**REMEDATION # 10185**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
SW-05 (40.449982352/-104.551611892)	02/10/17	<4.00	8.20	<4.00	73.8
	02/13/17	<1.00	1.06	<1.00	22.8
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
SW-06 (40.449897202/-104.551692223)	02/10/17	<4.00	<4.00	<4.00	16.5
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
SW-07 (40.449690628/-104.551677355)	02/10/17	<4.00	<4.00	<4.00	<4.00
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
SW-08 (40.448928873/-104.551685603)	02/10/17	<4.00	<4.00	<4.00	<4.00
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00

**TABLE 1**  
**WATER ANALYTICAL RESULTS SUMMARY**  
**WARDLAW #20-28**  
**FLOW LINE RELEASE**  
**40.452377 / -104.550395**  
**SE1/4 SE1/4 SEC.28 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**REMEDIATION # 10185**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
SW-09 (40.448299817/-104.551680172)	02/10/17	<4.00	<4.00	<4.00	<4.00
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
GW-01	02/11/17	<b>434</b>	<b>1560</b>	138	<b>1530</b>
MW-01 (40.452393003/-104.550433142)	03/27/17	<b>188</b>	<4.00	12.6	327
	06/15/17	<b>614</b>	<1.00	<1.00	2.26
	09/14/17	DES			
	12/12/17	DES			
MW-01R (40.45250593/-104.55046105)	03/13/18	<1.00	<1.00	<1.00	<1.00
MW-02 (40.452504816/-104.550455313)	03/30/17	<1.00	<1.00	6.58	43.4
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	<1.00	<1.00	<1.00	<1.00
MW-03 (40.452454447/-104.550546129)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	<1.00	<1.00	<1.00	<1.00
MW-04 (40.452342502/-104.550577837)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	<1.00	<1.00	<1.00	<1.00



**TABLE 1**  
**WATER ANALYTICAL RESULTS SUMMARY**  
**WARDLAW #20-28**  
**FLOW LINE RELEASE**  
**40.452377 / -104.550395**  
**SE1/4 SE1/4 SEC.28 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**REMEDATION # 10185**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
MW-05 (40.452208431/-104.550603406)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	<1.00	<1.00	<1.00	<1.00
MW-06 (40.452070696/-104.550630887)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	1.39	<1.00	<1.00	<1.00
MW-07 (40.452002981/-104.55055025)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/15/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
MW-08 (40.451924937/-104.550467803)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
MW-09 (40.452077465/-104.550441169)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	3.15	<1.00	<1.00	<1.00
	12/12/17	1.47	<1.00	<1.00	<1.00
	03/16/18	1.09	<1.00	<1.00	<1.00
MW-10 (40.452207178/-104.55040854)	03/28/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
MW-11 (40.452321549/-104.550383609)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00

**TABLE 1**  
**WATER ANALYTICAL RESULTS SUMMARY**  
**WARDLAW #20-28**  
**FLOW LINE RELEASE**  
**40.452377 / -104.550395**  
**SE1/4 SE1/4 SEC.28 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**REMEDATION # 10185**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
MW-12 (40.45239442/-104.550368154)	03/30/17	210	480	19.8	424
	06/13/17	2120	5560	251	3510
	09/14/17	1310	<1.00	52.3	344
	12/12/17	220	<1.00	31.6	24.7
	03/16/18	95.7	<4.00	5.60	<4.00
MW-13 (40.452664489/-104.550339323)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
MW-14 (40.452664489/-104.550339323)	03/28/17	<4.00	<4.00	<4.00	<4.00
	06/15/17	96.0	<1.00	<1.00	23.6
	09/14/17	73.6	<1.00	<1.00	<1.00
	12/12/17	16.3	<1.00	<1.00	<1.00
	03/16/18	6.02	<1.00	<1.00	<1.00
MW-15 (40.452232004/-104.550269649)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/15/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	DES			
	12/12/17	DES			
MW-16 (40.452334255/-104.550243785)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/15/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	DES			
	12/12/17	DES			
MW-16R (40.45234384/-104.55022774)	03/16/18	<1.00	<1.00	<1.00	1.38
MW-17 (40.452418346/-104.55022411)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	DES			
	12/12/17	DES			

**TABLE 1**

**WATER ANALYTICAL RESULTS SUMMARY**

**WARDLAW #20-28**

**FLOW LINE RELEASE**

**40.452377 / -104.550395**

**SE1/4 SE1/4 SEC.28 T6N R64W 6PM**

**WELD COUNTY, COLORADO**

**REMEDIATION # 10185**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
MW-17R (40.45242885/-104.55021605)	03/16/18	<1.00	<1.00	<1.00	<1.00

COGCC = Colorado Oil and Gas Conservation Commission  
NS = Not Sampled                      DES - Destroyed  
µg/L - micrograms per liter  
Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.

Values presented in **bold** typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).



TABLE 2  
GROUNDWATER ELEVATION SUMMARY  
WARDLAW #20-28  
FLOW LINE RELEASE  
40.452377 / -104.550395  
SE1/4 SE1/4 SEC.28 T6N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDATION # 10185

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-01 (40.452393003/-104.550433142)	03/28/17	98.78	7.74	91.04	4.88	2.86
	06/15/17		7.20	91.58	4.34	
	09/14/17	DES				
	12/12/17	DES				
MW-01R (40.45250593/-104.55046105)	03/13/18	99.15	7.29	91.86	4.23	3.06
MW-02 (40.452504816/-104.550455313)	03/28/17	99.22	NM	NA	NA	2.92
	03/30/17		9.83	89.39	6.91	
	06/13/17		5.54	93.68	2.62	
	09/14/17		5.41	93.81	2.49	
	12/12/17		6.04	93.18	3.12	
	03/13/18		5.99	93.23	3.07	
MW-03 (40.452454447/-104.550546129)	03/28/17	99.62	NM	NA	NA	3.10
	03/30/17		12.97	86.65		
	06/13/17		6.00	93.62	2.90	
	09/14/17		5.89	93.73	2.79	
	12/12/17		6.53	93.09	3.43	
	03/13/18		6.48	93.14	3.38	
MW-04 (40.452342502/-104.550577837)	03/28/17	99.20	6.78	92.42	3.80	2.98
	06/13/17		6.00	93.20	3.02	
	09/14/17		5.86	93.34	2.88	
	12/12/17		6.50	92.70	3.52	
	03/13/18		6.51	92.69	3.53	
MW-05 (40.452208431/-104.550603406)	03/28/17	98.64	6.63	92.01	3.63	3.00
	06/13/17		6.05	92.59	3.05	
	09/14/17		5.93	92.71	2.93	
	12/12/17		6.49	92.15	3.49	
	03/13/18		6.56	92.08	3.56	
MW-06 (40.452070696/-104.550630887)	03/28/17	98.38	6.44	91.94	3.49	2.95
	06/13/17		6.04	92.34	3.09	
	09/14/17		5.93	92.45	2.98	
	12/12/17		6.42	91.96	3.47	
	03/13/18		6.52	91.86	3.57	
MW-07 (40.452002981/-104.55055025)	03/28/17	98.37	6.57	91.80	3.65	2.92
	06/15/17		6.66	91.71	3.74	
	09/14/17		6.56	91.81	3.64	
	12/12/17		6.91	91.46	3.99	
	03/13/18		7.04	91.33	4.12	
MW-08 (40.451924937/-104.550467803)	03/28/17	98.32	6.60	91.72	3.89	2.71
	06/13/17		6.53	91.79	3.82	
	09/14/17		6.41	91.91	3.70	
	12/12/17		6.67	91.65	3.96	
	03/13/18		6.77	91.55	4.06	

TABLE 2  
GROUNDWATER ELEVATION SUMMARY  
WARDLAW #20-28  
FLOW LINE RELEASE  
40.452377 / -104.550395  
SE1/4 SE1/4 SEC.28 T6N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDATION # 10185

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-09 (40.452077465/-104.550441169)	03/28/17	98.78	7.14	91.64	4.48	2.66
	06/13/17		6.85	91.93	4.19	
	09/14/17		6.76	92.02	4.10	
	12/12/17		7.03	91.75	4.37	
	03/13/18		7.11	91.67	4.45	
MW-10 (40.452207178/-104.55040854)	03/28/17	98.91	NM	NA	NA	2.83
	06/13/17		6.60	92.31	3.77	
	09/14/17		6.48	92.43	3.65	
	12/12/17		6.92	91.99	4.09	
	03/13/18		6.76	92.15	3.93	
MW-11 (40.452321549/-104.550383609)	03/28/17	99.27	NM	NA	NA	2.74
	06/13/17		6.64	92.63	3.90	
	09/14/17		6.38	92.89	3.64	
	12/12/17		7.11	92.16	4.37	
	03/13/18		6.96	92.31	4.22	
MW-12 (40.45239442/-104.550368154)	03/28/17	99.34	NM	NA	NA	2.71
	03/30/17		13.64	85.70	10.93	
	06/13/17		6.48	92.86	3.77	
	09/14/17		6.26	93.08	3.55	
	12/12/17		6.97	92.37	4.26	
	03/13/18		6.88	92.46	4.17	
MW-13 (40.452664489/-104.550339323)	03/28/17	100.00	NM	NA	NA	2.64
	06/13/17		6.55	93.45	3.91	
	09/14/17		6.31	93.69	3.67	
	12/12/17		6.89	93.11	4.25	
	03/13/18		6.83	93.17	4.19	
MW-14 (40.452664489/-104.550339323)	03/28/17	98.41	7.32	91.09	4.60	2.72
	06/15/17		6.60	91.81	3.88	
	09/14/17		6.48	91.93	3.76	
	12/12/17		7.08	91.33	4.36	
	03/13/18		7.11	91.30	4.39	
MW-15 (40.452232004/-104.550269649)	03/28/17	99.54	NM	NA	NA	2.82
	06/15/17		7.33	92.21	4.51	
	09/14/17	DES				
	03/13/18	DES				
MW-16 (40.452334255/-104.550243785)	03/28/17	99.73	NM	NA	NA	2.86
	06/15/17		7.11	92.62	4.25	
	09/14/17	DES				
	03/13/18	DES				
MW-16R (40.45234384/-104.55022774)	03/13/18	100.29	7.90	92.39	4.68	3.22



TABLE 2  
GROUNDWATER ELEVATION SUMMARY  
WARDLAW #20-28  
FLOW LINE RELEASE  
40.452377 / -104.550395  
SE1/4 SE1/4 SEC.28 T6N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDATION # 10185

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-17 (40.452418346/-104.55022411)	03/28/17	99.72	NM	NA	NA	2.75
	06/15/17		8.42	91.30	5.67	
	09/14/17	DES				
	09/14/17	DES				
MW-17R (40.45242885/-104.55021605)	03/13/18	100.08	7.61	92.47	4.63	2.98
NOTES: All wells completed as PVC stick ups.    TOC = top of casing    PVC = polyvinyl chloride    NM = not measured bgs= below ground surface    NA = not applicable    DES = Destroyed						



## **ATTACHMENT A**

### **Laboratory Analytical Report**



March 26, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Wardlaw #20-28**

**Project Number - [none]**

Attached are your analytical results for Noble - Wardlaw #20-28 received by Origins Laboratory, Inc. March 16, 2018. This project is associated with Origins project number Y803295-01.

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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y803295-01	Water	March 13, 2018 11:30	03/16/2018 17:27
MW-02	Y803295-02	Water	March 13, 2018 11:40	03/16/2018 17:27
MW-03	Y803295-03	Water	March 13, 2018 11:50	03/16/2018 17:27
MW-04	Y803295-04	Water	March 13, 2018 14:11	03/16/2018 17:27
MW-05	Y803295-05	Water	March 13, 2018 14:21	03/16/2018 17:27
MW-06	Y803295-06	Water	March 13, 2018 14:32	03/16/2018 17:27
MW-07	Y803295-07	Water	March 16, 2018 11:42	03/16/2018 17:27
MW-08	Y803295-08	Water	March 16, 2018 11:51	03/16/2018 17:27
MW-09	Y803295-09	Water	March 16, 2018 12:00	03/16/2018 17:27
MW-10	Y803295-10	Water	March 16, 2018 12:09	03/16/2018 17:27
MW-11	Y803295-11	Water	March 16, 2018 12:18	03/16/2018 17:27
MW-12	Y803295-12	Water	March 16, 2018 12:27	03/16/2018 17:27
MW-13	Y803295-13	Water	March 16, 2018 12:36	03/16/2018 17:27
MW-14	Y803295-14	Water	March 16, 2018 12:45	03/16/2018 17:27

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.*

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-16R	Y803295-15	Water	March 16, 2018 12:55	03/16/2018 17:27
MW-17R	Y803295-16	Water	March 16, 2018 13:10	03/16/2018 17:27
SW-01	Y803295-17	Water	March 16, 2018 13:14	03/16/2018 17:27
SW-02	Y803295-18	Water	March 16, 2018 13:18	03/16/2018 17:27
SW-03	Y803295-19	Water	March 16, 2018 13:22	03/16/2018 17:27
SW-04	Y803295-20	Water	March 16, 2018 13:26	03/16/2018 17:27
SW-05	Y803295-21	Water	March 16, 2018 13:30	03/16/2018 17:27
SW-06	Y803295-22	Water	March 16, 2018 13:34	03/16/2018 17:27
SW-07	Y803295-23	Water	March 16, 2018 13:38	03/16/2018 17:27
SW-08	Y803295-24	Water	March 16, 2018 13:42	03/16/2018 17:27
SW-09	Y803295-25	Water	March 16, 2018 13:51	03/16/2018 17:27

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.*



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

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page 1 of 3

**ORIGINS**  
LABORATORY, INC

Client: Eagle Environmental Consulting, Inc.  
Address: 4101 Inca St.  
Denver CO  
Telephone Number: 703-433-0479  
Email Address: MICHAEL@EAGLE-ENVIRONMENTAL.COM

Project Manager: MARTIN ECKERT III  
Project Name: WARDLAW 20-28  
Project Number: 16  
Samples Collected By: 16

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Sample #		
MW-01	3-13-18	1170	3	X				X				1
MW-02		1140	1									2
MW-03		1150	1									3
MW-04		1411	1									4
MW-05		1421	1									5
MW-06		1432	1									6
MW-07	3-16-18	1142	1									7
MW-08		1151	1									8
MW-09		1200	1									9
MW-10		1209	1									10

Relinquished By: [Signature]  
Relinquished By: [Signature]

Date: 3-16-18  
Date: 3-16-18

Time: 1727  
Time: 1727

Received By: [Signature]  
Received By: [Signature]

Date: 3-16-18  
Date: 3-16-18

Time: 1727  
Time: 1727

Turnaround Time:  
Same Day ☐ 24 Hr ☐  
48 Hr ☐ 72 Hr ☐  
Standard ☒

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

Date Results Needed: 16 Noble

Temp Received: 16

Bill To: HOWARD

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.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

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page 2 of 3

**ORIGINS**  
LABORATORY, INC

Client: EAGLE ENV. CONSULTING  
Address: 4101 INCA ST  
DENVER, CO  
Telephone Number: 303-433-0479  
Email Address: MCE3@EAGLE-ENVIR.COM

Project Manager: MARTIN ECKERT III  
Project Name: WARDLAW 20-28  
Project Number: 168  
Samples Collected By: 168

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other					
MW-11	3-16-18	12:18	3		X			X								
MW-12		12:27														
MW-13		12:36														
MW-14		12:47														
MW-16R		12:55														
MW-17R		13:10														
SW-01		13:14														
SW-02		13:18														
SW-03		13:22														
SW-04		13:26														
Relinquished By:	Date: 3-16-18	Time: 1727		Received By:	Date: 3-16-18	Time: 1727		Turnaround Time:	Same Day	24 Hr						
Relinquished By:	Date:	Time:		Received By:	Date:	Time:		Standard	48 Hr	72 Hr						

Temp Received: 4.5 Date Results Needed: 4/15/18

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.

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

# ORIGINS

## LABORATORY, INC

www.originslaboratory.com

903295

page 3 of 3

Client: SHLUB ENV CONSULTING  
 Address: 4101 INCA ST,  
DENVILAR, CO  
 Telephone Number: 303-433-0474  
 Email Address: MICHAEL@SHLUB-ENVILAR.CO

Project Manager: MARTIN ECLERT III  
 Project Name: WAPLAW 20-28  
 Project Number: \_\_\_\_\_  
 Samples Collected By: ML

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other		
SW-09	3-16-18	1330	2	X				X				TEXT	1
SW-06		1334	1										2
SW-07		1338											3
SW-08		1342											4
SW-04		1341											5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:	
						Same Day	24 Hr
<u>ML</u>	3-16-18	1727	<u>ML</u>	3-16-18	1727	<input type="checkbox"/>	<input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

17311 To Howard | Temp Received: 41.6 | Date Results Needed: 4/10/18

Origins Laboratory, Inc.

Jeff Pellipini

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver

CO

80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: Y803295

Client: Eagle Env.

Client Project ID: Wardlaw 20-28 (Noble)

Checklist Completed by: Dan La

Shipped Via: HD

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

Date/time completed: 3-21-12

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid

Water

Other: \_\_\_\_\_

(Describe)

Cooler Number/Temperature: 1 / 4.5 °C

1 / \_\_\_\_\_ °C

1 / \_\_\_\_\_ °C

1 / \_\_\_\_\_ °C

Thermometer ID: 603

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 type="checkbox"/>	<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) JP

Date/Time Reviewed 3/20/12

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.



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-01R

3/13/2018 11:30:00AM

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

## Origins Laboratory, Inc. Y803295-01 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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.



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-02

3/13/2018 11:40:00AM

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

## Origins Laboratory, Inc. Y803295-02 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	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.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

**MW-03**

**3/13/2018 11:50:00AM**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

**Origins Laboratory, Inc.**

**Y803295-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.3 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	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.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

MW-04  
3/13/2018 2:11:00PM

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

Origins Laboratory, Inc.  
Y803295-04 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	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.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

## MW-05

3/13/2018 2:21:00PM

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

## Origins Laboratory, Inc.

Y803295-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	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.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

MW-06  
3/13/2018 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y803295-06 (Water)

## BTEX by EPA 8260C

Benzene	1.39	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 91.4 % 84-121  
Surrogate: Toluene-d8 98.4 % 85-115  
Surrogate: 4-Bromofluorobenzene 102 % 84-114

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-07

3/16/2018 11:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-07 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

**MW-08**

**3/16/2018 11:51:00AM**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

**Origins Laboratory, Inc.**

**Y803295-08 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.1 %	84-121	"	"	"
Surrogate: Toluene-d8	99.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-09

3/16/2018 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-09 (Water)

### BTEX by EPA 8260C

Benzene	1.09	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-10

3/16/2018 12:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-10 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-11

3/16/2018 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-11 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

## MW-12

3/16/2018 12:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y803295-12 (Water)

### BTEX by EPA 8260C

Benzene	95.7	4.00	ug/L	4	B8C2108	03/22/2018	03/22/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	5.60	4.00	"	"	"	"	"	
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

91.2 % 84-121

"

"

"

Surrogate: Toluene-d8

100 % 85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

101 % 84-114

"

"

"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-13

3/16/2018 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-13 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

**MW-14**

**3/16/2018 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y803295-14 (Water)**

**BTEX by EPA 8260C**

Benzene	6.02	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-16R

3/16/2018 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-15 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	<b>1.38</b>	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## MW-17R

3/16/2018 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-16 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

SW-01

3/16/2018 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y803295-17 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## SW-02

3/16/2018 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-18 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

SW-03

3/16/2018 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y803295-19 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/22/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	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.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

SW-04

3/16/2018 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y803295-20 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/23/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	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.

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

## SW-05

3/16/2018 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y803295-21 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/23/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

SW-06

3/16/2018 1:34:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Y803295-22 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/23/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	84-114	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

SW-07

3/16/2018 1:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y803295-23 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/23/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

SW-08

3/16/2018 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y803295-24 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/23/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

SW-09

3/16/2018 1:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y803295-25 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C2108	03/22/2018	03/23/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Wardlaw #20-28

**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 B8C2108 - EPA 5030B (Water)</b>										
<b>Blank (B8C2108-BLK1)</b>					Prepared: 03/22/2018 Analyzed: 03/22/2018					
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	55		"	62.5		88.8	84-121			
Surrogate: Toluene-d8	62		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

**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 B8C2108 - EPA 5030B (Water)**

**Blank (B8C2108-BLK2)**

Prepared: 03/22/2018 Analyzed: 03/22/2018

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	56		"	62.5	90.3		84-121			
Surrogate: Toluene-d8	63		"	62.5	100		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		84-114			

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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wardlaw #20-28

**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 B8C2108 - EPA 5030B (Water)**

**LCS (B8C2108-BS1)**

Prepared: 03/22/2018 Analyzed: 03/22/2018

Benzene	47.3	1.00	ug/L	50.0		94.6	73.3-129			
Toluene	48.3	1.00	"	50.0		96.6	76.2-123			
Ethylbenzene	46.3	1.00	"	50.0		92.6	73.6-130			
m,p-Xylene	94.3	2.00	"	100		94.3	76.1-126			
o-Xylene	46.8	1.00	"	50.0		93.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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 B8C2108 - EPA 5030B (Water)

LCS (B8C2108-BS2)

Prepared: 03/22/2018 Analyzed: 03/22/2018

Benzene	47.6	1.00	ug/L	50.0		95.3	73.3-129			
Toluene	48.5	1.00	"	50.0		96.9	76.2-123			
Ethylbenzene	45.8	1.00	"	50.0		91.5	73.6-130			
m,p-Xylene	94.4	2.00	"	100		94.4	76.1-126			
o-Xylene	48.3	1.00	"	50.0		96.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.3	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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Project: Noble - Wardlaw #20-28

**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 B8C2108 - EPA 5030B (Water)**

Matrix Spike (B8C2108-MS1)		Source: Y803285-01			Prepared: 03/22/2018 Analyzed: 03/22/2018					
Benzene	57.4	1.00	ug/L	50.0	ND	115	74-130			
Toluene	59.0	1.00	"	50.0	ND	118	73-131			
Ethylbenzene	57.1	1.00	"	50.0	ND	114	76-132			
m,p-Xylene	115	2.00	"	100	ND	115	69-139			
o-Xylene	56.0	1.00	"	50.0	ND	112	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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 B8C2108 - EPA 5030B (Water)**

Matrix Spike (B8C2108-MS2)		Source: Y803285-02			Prepared: 03/22/2018 Analyzed: 03/22/2018					
Benzene	51.5	1.00	ug/L	50.0	ND	103	74-130			
Toluene	53.3	1.00	"	50.0	ND	107	73-131			
Ethylbenzene	51.1	1.00	"	50.0	ND	102	76-132			
m,p-Xylene	102	2.00	"	100	ND	102	69-139			
o-Xylene	51.8	1.00	"	50.0	ND	104	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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 B8C2108 - EPA 5030B (Water)**

Matrix Spike Dup (B8C2108-MSD1)		Source: Y803285-01			Prepared: 03/22/2018 Analyzed: 03/22/2018					
Benzene	52.9	1.00	ug/L	50.0	ND	106	74-130	8.05	20	
Toluene	55.7	1.00	"	50.0	ND	111	73-131	5.79	20	
Ethylbenzene	53.8	1.00	"	50.0	ND	108	76-132	5.97	20	
m,p-Xylene	107	2.00	"	100	ND	107	69-139	6.99	20	
o-Xylene	52.5	1.00	"	50.0	ND	105	74-131	6.32	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	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 B8C2108 - EPA 5030B (Water)**

Matrix Spike Dup (B8C2108-MSD2)		Source: Y803285-02			Prepared: 03/22/2018 Analyzed: 03/22/2018					
Benzene	51.1	1.00	ug/L	50.0	ND	102	74-130	0.780	20	
Toluene	53.4	1.00	"	50.0	ND	107	73-131	0.206	20	
Ethylbenzene	50.8	1.00	"	50.0	ND	102	76-132	0.589	20	
m,p-Xylene	103	2.00	"	100	ND	103	69-139	0.565	20	
o-Xylene	51.1	1.00	"	50.0	ND	102	74-131	1.38	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	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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