



## **FIGURES**

**Figure 1: Groundwater Analytical Map (03/21/19)**

**Figure 2: Groundwater Elevation Map (03/21/19)**

**Figure 3: Grab Surface Water Sample Location Map (03/21/19)**



- LEGEND**
- APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE
  - APPROXIMATE FLOW LINE LOCATION
  - APPROXIMATE MONITORING WELL LOCATIONS
  - DESTROYED MONITORING WELL LOCATIONS

**PARAMETERS**

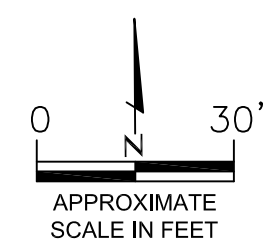
SAMPLE LOCATION	
DATE	
B	= BENZENE (µg/L)
T	= TOLUENE (µg/L)
E	= ETHYLBENZENE (µg/L)
X	= TOTAL XYLENES (µg/L)

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



GROUNDWATER ANALYTICAL MAP  
 (03/21/19)  
 WARDLAW #20-28  
 FLOW LINE RELEASE  
 40.452377 / -104.550395  
 SE1/4 SE1/4 SEC.28 T6N R64W 6PM  
 WELD COUNTY, COLORADO  
 REMEDIATION # 10185

DATE  
03/28/19

FIG. NO. 1  
DRAWN BY KTP

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

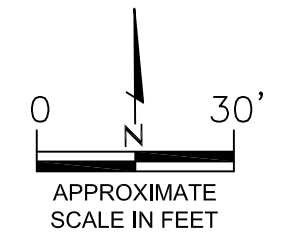


**LEGEND**

- APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE
- APPROXIMATE FLOW LINE LOCATION
- APPROXIMATE 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 03/21/19.  
 GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING WELLS  
 MW-05R2, MW-11R, MW-12, AND MW-13R2 WAS NOT USED IN THE  
 CONSTRUCTION OF INFERRED GROUNDWATER ELEVATION CONTOURS.



**GROUNDWATER ELEVATION MAP**  
 (03/21/19)  
 WARDLAW #20-28  
 FLOW LINE RELEASE  
 40.452377 / -104.550395  
 SE1/4 SE1/4 SEC.28 T6N R64W 6PM  
 WELD COUNTY, COLORADO  
 REMEDIATION # 10185

DATE	03/28/19
FIG. NO.	2
DRAWN BY	KTP

**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.  
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SW-01	SW-01	SW-01	SW-01
06/13/18	09/12/18	12/07/18	03/21/19
B = <1.00	B = <1.00	B = <1.00	B = <1.00
T = <1.00	T = <1.00	T = <1.00	T = <1.00
E = <1.00	E = <1.00	E = <1.00	E = <1.00
X = <1.00	X = <1.00	X = <1.00	X = <1.00

SW-02	SW-02	SW-02	SW-02
06/13/18	09/12/18	12/07/18	03/21/19
B = <1.00	B = <1.00	B = <1.00	B = <1.00
T = <1.00	T = <1.00	T = <1.00	T = <1.00
E = <1.00	E = <1.00	E = <1.00	E = <1.00
X = <1.00	X = <1.00	X = <1.00	X = <1.00

SW-04	SW-04	SW-04	SW-04
06/13/18	09/12/18	12/07/18	03/21/19
B = <1.00	B = <1.00	B = <1.00	B = <1.00
T = <1.00	T = <1.00	T = <1.00	T = <1.00
E = <1.00	E = <1.00	E = <1.00	E = <1.00
X = <1.00	X = <1.00	X = <1.00	X = <1.00

SW-03 (NOP)  
 SW-05 (NOP)  
 SW-06 (NOP)  
 SW-07 (NOP)  
 SW-08 (NOP)  
 SW-09 (NOP)

**LEGEND**

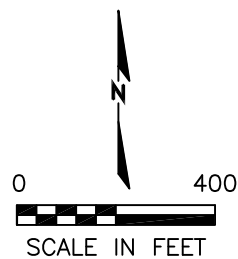
- X APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE
- WELL HEAD LOCATION
- APPROXIMATE LOCATION OF SURFACE WATER SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SW-01
- (NOP) NOT ON PLAN

PARAMETERS

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

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

µg/L = MICROGRAMS PER LITER



**GRAB SURFACE WATER SAMPLE LOCATION MAP**  
 (03/21/19)  
 WARDLAW #20-28  
 FLOW LINE RELEASE  
 40.452377 / -104.550395  
 SE1/4 SE1/4 SEC.28 T6N R64W 6PM  
 WELD COUNTY, COLORADO  
 REMEDIATION # 10185

DATE: 04/11/19

FIG. NO. 3

DRAWN BY:  
 RAL



**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**  
**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-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	
	06/13/18	<1.00	<1.00	<1.00	<1.00	
	09/12/18	<1.00	<1.00	<1.00	<1.00	
	12/07/18	<1.00	<1.00	<1.00	<1.00	
03/21/19	<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	
	06/13/18	<1.00	<1.00	<1.00	<1.00	
	09/12/18	<1.00	<1.00	<1.00	<1.00	
	12/07/18	<1.00	<1.00	<1.00	<1.00	
03/21/19	<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	
	06/13/18	NOP				

**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-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
	09/12/18	<1.00	<1.00	<1.00	<1.00
	12/07/18	<1.00	<1.00	<1.00	<1.00
	03/21/19	<1.00	<1.00	<1.00	<1.00
SW-05 (40.44982352 / -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
	06/13/18	NOP			
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
	06/13/18	NOP			
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
	06/13/18	NOP			

**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-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
	06/13/18	NOP			
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
	06/13/18	NOP			
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 (40.452393003 / -104.550433142)	03/13/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-01R2 (40.452393003 / -104.550433142)	06/13/18	<b>198</b>	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-01R3 (40.452393003 / -104.550433142)	12/07/18	DRY			
	03/21/19	<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
	05/15/18	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-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
	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-03R (40.452454447 / -104.550546129)	12/07/18	<1.00	27.4	5.01	32.5
	03/21/19	<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
	05/15/18	DES			
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
	06/13/18	DES			
MW-05R (40.452208431 / -104.550603406)	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-05R2 (40.452208431 / -104.550603406)	12/07/18	<1.00	<1.00	33.4	258
	03/21/19	<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
	05/15/18	DES			
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
	05/15/18	DES			
MW-07R (40.452002981 / -104.55055025)	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	<1.00	<1.00	<1.00	<1.00
	11/01/18	DES			
MW-07R2 (40.452002981 / -104.55055025)	12/07/18	<b>64.5</b>	<1.00	12.7	92.9
	03/21/19	<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>
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
	05/15/18	DES			
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
	05/15/18	DES			
MW-09R (40.452077465/-104.550441169)	06/13/18	1.07	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-09R2 (40.452077465/-104.550441169)	12/07/18	<1.00	<1.00	<1.00	2.11
	03/21/19	<1.00	<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
	05/15/18	DES			
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
	05/15/18	DES			
MW-11R (40.452321549/-104.550383609)	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	<1.00	<1.00	<1.00	<1.00
	03/21/19	<1.00	<1.00	<1.00	<1.00
MW-12 (40.45239442/-104.550368154)	03/30/17	<b>210</b>	480	19.8	424
	06/13/17	<b>2120</b>	<b>5560</b>	251	<b>3510</b>
	09/14/17	<b>1310</b>	<1.00	52.3	344
	12/12/17	<b>220</b>	<1.00	31.6	24.7
	03/16/18	<b>95.7</b>	<4.00	5.60	<4.00
	06/13/18	<b>96.1</b>	<4.00	4.08	<4.00
	09/12/18	<b>137</b>	<1.00	12.4	<1.00
	12/07/18	<b>10.9</b>	<4.00	<4.00	<4.00
	03/21/19	<b>9.00</b>	<4.00	<4.00	<4.00



**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		
MW-01R (40.452393003 / -104.550433142)	03/13/18	99.15	7.29	91.86	4.23	3.06
	05/15/18			DES		
MW-01R2 (40.452393003 / -104.550433142)	06/13/18	98.45	5.79	92.66	2.76	3.03
	09/12/18			DES		
MW-01R3 (40.452393003 / -104.550433142)	12/07/18	96.29				DRY
	03/21/19		3.31	92.98	NA	NA
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	
	05/15/18			DES		
MW-03 (40.452454447 / -104.550546129)	03/28/17	99.62	NM	NA	NA	3.10
	03/30/17		12.97	86.65	9.87	
	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	
	06/13/18	98.22	4.25	95.37	1.15	
	09/12/18			DES		
MW-03R2 (40.452454447 / -104.550546129)	12/07/18	96.75	8.21	88.54	NA	NA
	03/21/19		3.68	93.07	NA	NA
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	
	05/15/18			DES		
	MW-05 (40.452208431 / -104.550603406)	03/28/17	98.64	6.63	92.01	3.63
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	
05/15/18				DES		
MW-05R (40.452208431 / -104.550603406)	06/13/18	98.42	5.86	92.56	3.14	2.72
	09/12/18			DES		
MW-05R2 (40.452208431 / -104.550603406)	12/07/18	96.08	10.95	85.13	NA	NA
	03/21/19		3.62	92.46	NA	NA
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	
	05/15/18			DES		

**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-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	
	05/15/18		DES			
MW-07R (40.452002981 / -104.55055025)	06/13/18	98.12	6.12	92.00	3.16	2.96
	09/12/18		5.47	92.65		
	11/01/18		DES			
MW-07R2 (40.452002981 / -104.55055025)	12/07/18	95.79	3.75	92.04	NA	NA
	03/21/19		3.53	92.26	NA	NA
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	
	05/15/18		DES			
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	
	05/15/18		DES			
MW-09R (40.452077465 / -104.550441169)	06/13/18	98.96	7.40	91.56	4.32	3.08
	09/12/18		DES			
MW-09R2 (40.452077465 / -104.550441169)	12/07/18	99.25	7.24	92.01	NA	NA
	03/21/19		6.97	92.28	NA	NA
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	
	12/12/17		6.92	91.99	4.09	
	03/13/18		6.76	92.15	3.93	
	05/15/18		DES			
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	
	05/15/18		DES			
MW-11R (40.452321549 / -104.550383609)	06/13/18	99.24	12.34	86.90	9.44	2.90
	09/12/18		6.81	92.43	3.91	
	12/07/18		7.31	91.93	4.41	
	03/21/19		7.14	92.10	4.24	

**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-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	
	06/13/18		6.39	92.95	3.68	
	09/12/18		6.47	92.87	3.76	
	12/07/18		7.15	92.19	4.44	
03/21/19		7.60	91.74	4.89		
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	
	05/15/18		DES			
MW-13R (40.452664489 / -104.550339323)	06/13/18	100.45	10.61	89.84	7.79	2.82
	09/12/18		DES			
MW-13R2 (40.452664489 / -104.550339323)	12/07/18	95.91	14.25	81.66	NA	NA
	03/21/19		7.6	88.31	NA	NA
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	
	05/15/18		DES			
MW-14R (40.452664489 / -104.550339323)	06/13/18	98.48	5.95	92.53	3.03	2.92
	09/12/18		5.59	92.89	2.67	
	11/01/18		DES			
MW-14R2 (40.452664489 / -104.550339323)	12/07/18	95.91	3.78	92.13	NA	NA
	03/21/19		3.32	92.59	NA	NA
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			
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			
MW-16R (40.452334255 / -104.550243785)	03/13/18	100.29	7.90	92.39	4.68	3.22
	06/13/18		7.40	92.89	4.18	
	09/12/18		7.60	92.69	4.38	
	12/07/18		8.08	92.21	4.86	
	03/21/19		7.88	92.41	4.66	

**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			
MW-17R (40.452418346 / -104.55022411)	03/13/18	100.08	7.61	92.47	4.63	2.98
	06/13/18		6.77	93.31	3.79	
	09/12/18		7.12	92.96	4.14	
	12/07/18		7.48	92.60	4.50	
	03/21/19		7.31	92.77	4.33	
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, 2019

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 21, 2019. This project is associated with Origins project number Y903308-01.

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-01R3	Y903308-01	Water	March 21, 2019 11:40	03/21/2019 15:18
MW-03R	Y903308-02	Water	March 21, 2019 12:06	03/21/2019 15:18
MW-05R2	Y903308-03	Water	March 21, 2019 13:03	03/21/2019 15:18
MW-07R2	Y903308-04	Water	March 21, 2019 13:07	03/21/2019 15:18
MW-09R2	Y903308-05	Water	March 21, 2019 13:10	03/21/2019 15:18
MW-11R	Y903308-06	Water	March 21, 2019 11:55	03/21/2019 15:18
MW-12	Y903308-07	Water	March 21, 2019 12:31	03/21/2019 15:18
MW-13R2	Y903308-08	Water	March 21, 2019 11:35	03/21/2019 15:18
MW-14R2	Y903308-09	Water	March 21, 2019 13:15	03/21/2019 15:18
MW-16R	Y903308-10	Water	March 21, 2019 12:25	03/21/2019 15:18
MW-17R	Y903308-11	Water	March 21, 2019 12:15	03/21/2019 15:18
SW-01	Y903308-12	Water	March 21, 2019 13:25	03/21/2019 15:18
SW-02	Y903308-13	Water	March 21, 2019 13:51	03/21/2019 15:18
SW-04	Y903308-14	Water	March 21, 2019 13:42	03/21/2019 15:18

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

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

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 page 1 of 2

Client: Eagle Env. Consulting  
 Address: 4101 Inca St.  
 Telephone Number: (303)433-0479  
 Email Address: mce3@eagle-enviro.com

Project Manager: Martin Eckert III  
 Project Name: Wardlaw #20-28  
 Project Number: -  
 Samples Collected By: SA



Y903308

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Dr. Sample #	Other		
MW-01R3	3/21/19	1140	3	X				X				X	1
MW-03R		1206	1									X	2
MW-05R2		1303	1										3
MW-07R2		1307	1										4
MW-09R2		1310	1										5
MW-11R		1155	1										6
MW-12		1231	1										7
MW-13R2		1135	1										8
MW-14R2		1315	1										9
MW-16R		1225	1										10
Relinquished By: <u>S. Quattrini</u>	Date: <u>3/21/19</u>	Time: <u>1518</u>	Received By: <u>SA</u>	Date: <u>3/21/19</u>	Time: <u>1518</u>	Turnaround Time: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

Temp Received- 16 Date Results Needed

\*Noble

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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Y90398

page 2 of 2

Client: Eagle Env. Consulting  
 Address: 4101 Inca St.  
Denver, CO  
 Telephone Number: (303)433-0479  
 Email Address: mce3@eagle-enviro.com

Project Manager: Martin Eckert III  
 Project Name: Wardlaw #20-28  
 Project Number: -  
 Samples Collected By: SA

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #	Other				
MW-17R	3/21/19	1215	3	X				X						1	
SW-01		1325												2	
SW-02		1351												3	
SW-04		1342												4	
														5	
														6	
														7	
														8	
														9	
														10	
Relinquished By: <u>S. Gaudin</u>	Date: <u>3/21/19</u>	Time: <u>1514</u>	Received By: <u>[Signature]</u>	Date: <u>3/21/19</u>	Time: <u>1518</u>	Received By: <u>[Signature]</u>	Date: <u>3/21/19</u>	Time: <u>1518</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						

Temp Received: \*Noble Date Results Needed:

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y903306

Client: Eagle

Client Project ID: Wardlaw #20-28

Checklist Completed by: JG

Shipped Via: HD

Date/time completed: 3/22/2019

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °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"/>	
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]

Date/Time Reviewed 3/22/19

Origins Laboratory, Inc.

Jefe Pellegrini

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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-01R3**

**3/21/2019 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	KDK	03/25/2019	03/26/2019	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			"	"		03/26/2019	
Surrogate: Toluene-d8	103 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.1 %	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-03R**

**3/21/2019 12:06:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-02 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	JTD	03/25/2019	03/26/2019	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	100 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	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-05R2**

**3/21/2019 1:03:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	JTD	03/25/2019	03/26/2019	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	99.2 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

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

**MW-07R2**

**3/21/2019 1:07:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-04 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	JTD	03/25/2019	03/26/2019	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	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114			"	"	"	"	

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 Denver CO 80211

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

**MW-09R2**

**3/21/2019 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	JTD	03/25/2019	03/26/2019	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	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114			"	"	"	"	

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 Denver CO 80211

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

**MW-11R**

**3/21/2019 11:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-06 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	JTD	03/25/2019	03/26/2019	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	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	"	

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 Denver CO 80211

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

**MW-12**

**3/21/2019 12:31:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-07 (Water)**

**BTEX by EPA 8260C**

Benzene	9.00	4.00	ug/L	4	B9C2505	KDK	03/25/2019	03/26/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	"	

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 4101 Inca Street  
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Wardlaw #20-28

**MW-13R2**

**3/21/2019 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-08 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	KDK	03/25/2019	03/26/2019	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	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114			"	"	"	"	

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

**MW-14R2**

**3/21/2019 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-09 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	KDK	03/25/2019	03/26/2019	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	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114			"	"	"	"	

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 Denver CO 80211

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

**MW-16R**

**3/21/2019 12:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-10 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	KDK	03/25/2019	03/26/2019	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	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114			"	"	"	"	

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 4101 Inca Street  
 Denver CO 80211

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

**MW-17R**

**3/21/2019 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-11 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	KDK	03/25/2019	03/26/2019	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	99.8 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114			"	"	"	"	

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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**

**3/21/2019 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-12 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	KDK	03/25/2019	03/26/2019	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	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	"	

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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**

**3/21/2019 1:51:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-13 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	KDK	03/25/2019	03/26/2019	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	103 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	84-114			"	"	"	"	

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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-04**

**3/21/2019 1:42:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y903308-14 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B9C2505	KDK	03/25/2019	03/26/2019	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	102 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	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 B9C2505 - EPA 5030B (Water)**

**Blank (B9C2505-BLK1)**

Prepared: 03/25/2019 Analyzed: 03/25/2019

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	62		"	62.5	98.4		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.6		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 B9C2505 - EPA 5030B (Water)**

**Blank (B9C2505-BLK2)**

Prepared: 03/25/2019 Analyzed: 03/25/2019

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	61		"	62.5	98.1		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		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 B9C2505 - EPA 5030B (Water)**

**LCS (B9C2505-BS1)**

Prepared: 03/25/2019 Analyzed: 03/25/2019

Benzene	44.7	1.00	ug/L	50.0		89.3	73.3-129			
Toluene	44.6	1.00	"	50.0		89.2	76.2-123			
Ethylbenzene	44.3	1.00	"	50.0		88.6	73.6-130			
m,p-Xylene	89.3	2.00	"	100		89.3	76.1-126			
o-Xylene	46.8	1.00	"	50.0		93.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.5	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		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

**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 B9C2505 - EPA 5030B (Water)**

**LCS (B9C2505-BS2)**

Prepared: 03/25/2019 Analyzed: 03/25/2019

Benzene	41.3	1.00	ug/L	50.0		82.5	73.3-129			
Toluene	40.9	1.00	"	50.0		81.7	76.2-123			
Ethylbenzene	41.2	1.00	"	50.0		82.5	73.6-130			
m,p-Xylene	83.0	2.00	"	100		83.0	76.1-126			
o-Xylene	42.6	1.00	"	50.0		85.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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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 B9C2505 - EPA 5030B (Water)**

<b>Matrix Spike (B9C2505-MS1)</b>	<b>Source: Y903308-02</b>			<b>Prepared: 03/25/2019 Analyzed: 03/25/2019</b>						
Benzene	43.6	1.00	ug/L	50.0	ND	87.1	74-130			
Toluene	42.5	1.00	"	50.0	ND	84.9	73-131			
Ethylbenzene	42.3	1.00	"	50.0	ND	84.7	76-132			
m,p-Xylene	85.5	2.00	"	100	ND	85.5	69-139			
o-Xylene	44.1	1.00	"	50.0	ND	88.1	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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*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

**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 B9C2505 - EPA 5030B (Water)**

<b>Matrix Spike (B9C2505-MS2)</b>	<b>Source: Y903308-03</b>			<b>Prepared: 03/25/2019 Analyzed: 03/25/2019</b>						
Benzene	42.9	1.00	ug/L	50.0	ND	85.7	74-130			
Toluene	43.5	1.00	"	50.0	ND	87.0	73-131			
Ethylbenzene	43.1	1.00	"	50.0	ND	86.3	76-132			
m,p-Xylene	86.7	2.00	"	100	ND	86.7	69-139			
o-Xylene	44.5	1.00	"	50.0	ND	88.9	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	84-121			
Surrogate: Toluene-d8	65		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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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 B9C2505 - EPA 5030B (Water)**

Matrix Spike Dup (B9C2505-MSD1)	Source: Y903308-02			Prepared: 03/25/2019 Analyzed: 03/25/2019						
Benzene	43.5	1.00	ug/L	50.0	ND	86.9	74-130	0.230	20	
Toluene	43.3	1.00	"	50.0	ND	86.6	73-131	1.96	20	
Ethylbenzene	43.3	1.00	"	50.0	ND	86.6	76-132	2.22	20	
m,p-Xylene	86.8	2.00	"	100	ND	86.8	69-139	1.54	20	
o-Xylene	44.9	1.00	"	50.0	ND	89.9	74-131	1.95	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.5	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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 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 B9C2505 - EPA 5030B (Water)**

Matrix Spike Dup (B9C2505-MSD2)	Source: Y903308-03			Prepared: 03/25/2019 Analyzed: 03/25/2019						
Benzene	42.8	1.00	ug/L	50.0	ND	85.5	74-130	0.234	20	
Toluene	42.3	1.00	"	50.0	ND	84.6	73-131	2.75	20	
Ethylbenzene	42.4	1.00	"	50.0	ND	84.8	76-132	1.75	20	
m,p-Xylene	85.1	2.00	"	100	ND	85.1	69-139	1.85	20	
o-Xylene	43.8	1.00	"	50.0	ND	87.7	74-131	1.43	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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

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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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Jen Pellegrini For Noelle Doyle Mathis, President