

**DCP - CR42/CR13 SITE**  
**JUNE through SEPTEMBER 2019**  
**FORM 27 SUPPLEMENTAL SUMMARY REPORT**

**ATTACHMENTS**

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**TABLE 1  
DCP MIDSTREAM  
CR42 AND CR13  
SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH <sup>(2)</sup> (mg/kg)	Comments
BH01 @ 4'	4/6/2019	4	373	<b>0.452</b>	0.158	<0.0500	0.0500	<50.0	
BH01 @ 10'	4/6/2019	10	298	<b>0.900</b>	0.837	0.0810	0.610	101.0	
BH02 @ 03'	4/6/2019	3	88	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH02 @ 10'	4/6/2019	10	58.2	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH03 @ 10'	4/6/2019	10	170.4	<b>0.231</b>	0.110	<0.0500	<0.0500	<50.0	
BH04 @ 10'	4/6/2019	10	197	<b>0.510</b>	0.306	<0.0500	<0.0500	<50.0	
BH05 @ 12-14'	4/8/2019	12 - 14	464 - 637	0.0980	0.170	<0.0500	0.177	89.3	
BH06 @ 13-14'	4/8/2019	13 - 14	349	<b>0.528</b>	0.668	0.0650	0.460	94.9	
BH07 @ 11-12'	4/8/2019	11 - 12	42	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH07 @ 13-14'	4/8/2019	13 - 14	15.6	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH08 @ 10-11'	4/8/2019	10 - 11	28	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH08 @ 13-14'	4/8/2019	13 - 14	18.8	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH09 @ 11-12'	4/8/2019	11 - 12	79.3	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH09 @ 13-14'	4/8/2019	13 - 14	6.8	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH10 @ 12-13'	4/8/2019	12 - 13	715	<b>3.04</b>	9.36	1.19	8.47	338	
BH11 @ 7-8'	4/8/2019	7 - 8	71.1	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH11 @ 13.5'	4/8/2019	13.5	20.5	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH12-HA @ 11.5'	4/9/2019	11.5	850.0	<0.0500	0.0990	<0.0500	0.174	105.1	Hand augur sample collected south west of County Road intersection.
BH13-HA @ 4-5'	4/9/2019	4-5	108.4	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	Hand augur sample collected south west of County Road intersection.
BH13-HA @ 13.5'	4/9/2019	13.5	65.1	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	Hand augur sample collected south west of County Road intersection.
BH12 @ 12.5'	4/22/2019	12.5	794.0	<b>13.4</b>	24.3	2.56	16.8	<b>892</b>	Hollow stem augur drilling location near the private residence
BH12 @ 16'	4/22/2019	16	82.5	0.00664	0.00706	<0.00200	<0.00200	<50.0	Hollow stem augur drilling location near the private residence
BH13 @ 14'	4/22/2019	14	354.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	Hollow stem augur drilling location near the private residence (MW01)

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DCP MIDSTREAM  
CR42 AND CR13  
SOIL BORING SOIL SAMPLE ANALYTICAL RESULTS SUMMARY**

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH <sup>(2)</sup> (mg/kg)	Comments
BH13 @ 17'	4/22/2019	17	17.4	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	Hollow stem augur drilling location near the private residence (MW01)
BH14 @ 12.5'	4/22/2019	12.5	394.0	0.140	0.144	<0.0500	<0.0500	<50.0	MW02
BH14 @ 18'	4/22/2019	18	66.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW02
BH15 @ 11.5'	4/22/2019	11.5	642.0	0.120	0.368	0.0770	0.592	<50.0	MW03
BH15 @ 16'	4/22/2019	16	60.4	0.00316	0.00352	<0.00200	<0.00200	<50.0	MW03
BH16 @ 12'	4/22/2019	12	1,171.0	<b>6.27</b>	11.2	1.26	8.60	<b>852</b>	MW04
BH16 @ 14.5'	4/22/2019	14.5	85.1	0.00978	0.00830	<0.00200	<0.00200	<50.0	MW04
BH17@ 8'	4/23/2019	8	14.2	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
BH17@ 10'	4/23/2019	10	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH18@ 12.5'	4/23/2019	12.5	881.8	<b>0.245</b>	0.816	0.165	1.28	106.6	MW05
BH18@ 16'	4/23/2019	16	2.2	0.00398	0.00318	<0.00200	<0.00200	<50.0	MW05
BH19@ 11.5'	4/23/2019	11.5	335.0	<b>0.638</b>	0.546	<0.0500	0.221	<50.0	
BH20@ 12'	4/23/2019	12	549.0	<b>22.1</b>	27.1	2.34	15.9	<b>1,724</b>	
BH20@ 14.5'	4/23/2019	14.5	467.0	<b>24.1</b>	26.7	2.14	14.3	<b>1,532</b>	
BH21@ 13-14'	4/23/2019	13-14	385.0	<b>5.17</b>	6.80	0.670	4.38	499	
BH21@ 15'	4/23/2019	15	345.0	<b>12.8</b>	20.1	1.94	12.7	<b>870.9</b>	
BH22@ 10'	4/23/2019	10	14.5	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW06
BH22@ 11'	4/23/2019	11	1.2	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW06
BH23@ 13.5'	4/23/2019	13.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
BH24@ 12'	4/23/2019	12	230.7	<b>29.3</b>	51.0	5.57	36.0	<b>3,218</b>	MW08
BH24@ 16'	4/23/2019	16	16.8	<b>0.200</b>	0.422	0.104	0.815	153.1	MW08
BH24@ 18'	4/23/2019	18	4.2	<b>0.284</b>	0.158	0.00608	0.0386	<50.0	MW08
BH24@ 18' (RERUN)	4/23/2019	18	4.2	0.0419	0.0340	<0.00200	0.0118	<50.0	MW08

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BH25@ 13'	4/23/2019	13	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW07
BH26@ 12.5	4/23/2019	12.5	330.0	0.0138	0.0273	0.00278	0.0216	<50.0	
BH27 @ 16'	4/26/2019	16	118.9	0.00620	0.00216	<0.00200	<0.00200	<50.0	
BH27 @ 18'	4/26/2019	18	10.8	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
BH28 @ 2-3'	4/26/2019	2-3	213.0	0.0700	0.0344	<0.00200	0.00540	<50.0	
BH28 @ 11'	4/26/2019	11	104.0	0.0401	0.0306	<0.00200	0.00670	<50.0	
BH29 @ 13-14'	4/26/2019	13-14	365.0	0.00230	<0.00200	<0.00200	<0.00200	<50.0	
BH29 @ 18'	4/26/2019	18	103.0	<b>0.246</b>	0.453	0.0995	0.749	<50.0	
BH30 @ 16'	4/26/2019	16	341.0	0.123	0.146	<0.0500	<0.0500	<50.0	
BH30 @ 18'	4/26/2019	18	160.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW-09 @ 19'	5/8/2019	19	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
MW-10 @ 9.5'	5/8/2019	9.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW-10 @ 18'	5/8/2019	18	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW-11 @ 9'	5/8/2019	9	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
MW-11 @ 18'	5/8/2019	18	3.3	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW-12 @ 18.5'	5/8/2019	18.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	
MW13 @ 9.5'	5/23/2019	9.5	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW13 @ 18'	5/23/2019	18	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW13 @ 19'	5/23/2019	19	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW14 @ 11'	5/23/2019	11	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW14 @ 14'	5/23/2019	14	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW14 @ 18.5'	5/23/2019	18.5	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW15 @ 7'	5/23/2019	7	17.7	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	

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MW15 @ 12'	5/23/2019	12	103.7	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW15 @ 14'	5/23/2019	14	4.5	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW15 @ 18.5'	5/23/2019	18.5	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW16 @ 15.5-16'	6/13/2019	15.5 - 16	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW16 @ 19.5 - 20'	6/13/2019	19.5 - 20	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW17 @ 6-7'	6/13/2019	6 - 7	72.8	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW17 @ 15.5-16'	6/13/2019	15.65 - 16	1.9	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW17 @ 17.5-18'	6/13/2019	17.5 - 18	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW18 @ 7-8'	6/13/2019	7 - 8	144.3	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW18 @ 17-18'	6/13/2019	17 - 18	0.7	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW19 @ 6.5'	6/20/2019	6.5	10.9	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW19 @ 10.5'	6/20/2019	10.5	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW19 @ 18'	6/20/2019	18	0.0	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW20 @ 13.5'	6/20/2019	13.5	304.4	<b>0.902</b>	3.10	0.16	3.04	<50.0	
MW20 @ 14.5'	6/20/2019	14.5	156.7	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	
MW20 @ 18'	6/20/2019	18	15.0	<b>0.353</b>	0.0815	0.0244	0.1708	<50.0	
BH31 @ 10'	7/11/2019	10	553.0	<b>0.261</b>	0.0242	0.00274	0.0159	<50.0	MW21
BH31 @ 12'	7/11/2019	12	5,000.0	<b>5.240</b>	11.90	1.64	11.80	<b>826.00</b>	MW21
BH31 @ 17.5'	7/11/2019	17.5	1.1	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW21
BH32 @ 10'	7/11/2019	10	330.8	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH32 @ 12'	7/11/2019	12	5,000.0	<b>0.484</b>	1.22	0.216	1.61	41.10	
BH32 @ 18'	7/11/2019	18	234.0	<b>0.316</b>	0.512	0.083	0.598	26.10	
BH33 @ 8'	7/11/2019	8	311.3	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	

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Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH <sup>(2)</sup> (mg/kg)	Comments
BH33 @ 12'	7/11/2019	12	5,000.0	<b>29.80</b>	61.60	6.84	47.20	<b>2,628.00</b>	
BH33 @ 16'	7/11/2019	16	6.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	
BH34 @ 12'	7/11/2019	12	11.1	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW22
BH34 @ 15'	7/11/2019	15	2.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW22
BH35 @ 12'	7/12/2019	12	1.1	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW23
BH35 @ 15'	7/12/2019	15	79.1	<0.0500	<0.0500	<0.0500	<0.0500	207.40	MW23
BH36 @ 12.5'	7/12/2019	12.5	1.3	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW24
BH36 @ 18'	7/12/2019	18	18.1	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW24
BH37 @ 3'	7/25/2019	3	175.1	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	MW25
BH37 @ 12-13'	7/25/2019	12 - 13	24.2	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	MW25
BH37 @ 18'	7/25/2019	18	153.0	0.0224	0.0328	0.00414	0.02726	1.25	MW25
BH38 @ 13.5'	7/25/2019	13.5	2,621.0	0.0331	0.0590	0.00940	0.0735	1.28	MW26
BH38 @ 14'	7/25/2019	14	325.0	<b>0.238</b>	0.148	0.00652	0.0447	0.481	MW26
BH38 @ 18'	7/25/2019	18	86.2	<0.00200	<0.00200	<0.00200	<0.00400	<50.0	MW26
BH39 @ 17.5'	9/10/2019	17.5	850.0	<b>2.31</b>	5.11	0.683	4.85	377.00	MW27
BH39 @ 19'	9/10/2019	19	34.7	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW27
BH40 @ 16'	9/10/2019	16	1.2	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW28
BH40 @ 23.5'	9/10/2019	23.5	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW28
BH40 @ 30'	9/10/2019	30	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW28
BH41 @ 19.5'	9/10/2019	19.5	0.3	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW29
BH41 @ 23.5'	9/10/2019	23.5	0.0	<0.0500	<0.0500	<0.0500	<0.0500	<50.0	MW29
BH42 @ 18'	9/11/2019	18	1.7	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW30
BH42 @ 21.5'	9/11/2019	21.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW30

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Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH <sup>(2)</sup> (mg/kg)	Comments
BH43 @ 20'	9/11/2019	20	1.1	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW31
BH43 @ 21.5'	9/11/2019	21.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW31
BH44 @ 13'	9/11/2019	13	1.2	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW32
BH44 @ 21.5'	9/11/2019	21.5	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	MW32
<b>COGCC Standards for Soil (mg/kg) <sup>(1)</sup></b>				<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500</b>	

Notes:

1). Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective February 1, 2014.

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

bgs - Below ground surface.

ppm - Parts per million

NS - Not Sampled

Bold values indicate an exceedance of the COGCC soil standards for the Site.

**TABLE 2**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**DCP CR42 CR13 PIPELINE RELEASE**  
**WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>1</sup> (feet)
MW01	4/24/2019	14.64			16.92	4,994.44	4,979.80	NA
MW01	5/10/2019	14.51			16.92	4,994.44	4,979.93	0.13
MW01	5/28/2019	14.37			16.92	4,994.44	4,980.07	0.14
MW01	8/8/2019	15.89	15.42	0.47	16.92	4,994.44	4,978.90	-1.17
MW01	9/12/2019	16.29	15.81	0.48	16.92	4,994.44	4,978.51	-0.39
MW02	4/23/2019	15.79	12.15	3.64	18.06	4,993.50	4,980.44	NA
MW02	4/24/2019	16.25	12.06	4.19	18.06	4,993.50	4,980.39	-0.05
MW02	5/10/2019	15.90	12.07	3.83	18.06	4,993.50	4,980.47	0.08
MW02	5/11/2019	13.48	13.04	0.44	18.06	4,993.50	4,980.35	-0.12
MW02	5/28/2019	13.61	13.00	0.61	18.06	4,993.50	4,980.35	0.00
MW02	8/8/2019	14.38	14.10	0.28	18.06	4,993.50	4,979.33	-1.02
MW02	9/12/2019	14.72	14.41	0.31	18.06	4,993.50	4,979.01	-0.32
MW03	4/24/2019	11.18			15.81	4,992.60	4,981.42	NA
MW03	5/10/2019	11.10			15.81	4,992.60	4,981.50	0.08
MW03	5/28/2019	11.09			15.81	4,992.60	4,981.51	0.01
MW03	8/8/2019	11.86			15.81	4,992.60	4,980.74	-0.77
MW03	9/12/2019	12.19			15.81	4,992.60	4,980.41	-0.33
MW04	4/23/2019	12.73			14.74	4,993.02	4,980.29	NA
MW04	4/24/2019	12.75			14.74	4,993.02	4,980.27	-0.02
MW04	5/10/2019	12.60			14.74	4,993.02	4,980.42	0.15
MW04	5/28/2019	12.53			14.74	4,993.02	4,980.49	0.07
MW04	8/8/2019	13.49			14.74	4,993.02	4,979.53	-0.96
MW04	9/12/2019	13.78			14.74	4,993.02	4,979.24	-0.29
MW05	4/24/2019	13.19			15.69	4,993.36	4,980.17	NA
MW05	5/10/2019	13.04			15.69	4,993.36	4,980.32	0.15
MW05	5/28/2019	13.00			15.69	4,993.36	4,980.36	0.04
MW05	8/8/2019	DRY			15.69	4,993.36	NA	NA
MW05	9/12/2019	14.40			15.69	4,993.36	4,978.96	NA
MW06	4/24/2019	DRY			10.76	4,991.14	NA	NA
MW06	5/10/2019	DRY			10.80	4,991.14	NA	NA
MW06	5/28/2019	DRY			10.72	4,991.14	NA	NA
MW06	8/8/2019	DRY			10.72	4,991.14	NA	NA
MW06	9/12/2019	DRY			10.76	4,991.14	NA	NA
MW07	4/23/2019	11.07			15.09	4,992.74	4,981.67	NA
MW07	4/24/2019	11.17			15.09	4,992.74	4,981.57	-0.10
MW07	5/10/2019	10.96			15.09	4,992.74	4,981.78	0.21
MW07	5/28/2019	10.95			15.09	4,992.74	4,981.79	0.01
MW07	8/8/2019	11.62			15.09	4,992.74	4,981.12	-0.67
MW07	9/12/2019	11.99			15.09	4,992.74	4,980.75	-0.37
MW08	4/23/2019	13.75	13.42	0.33	17.78	4,993.26	4,979.76	NA
MW08	4/24/2019	15.71	12.61	3.10	17.78	4,993.26	4,979.88	0.12
MW08	5/10/2019	16.82	12.40	4.42	17.78	4,993.26	4,979.76	-0.12
MW08	5/11/2019	15.50	12.45	3.05	17.78	4,993.26	4,980.05	0.29

**TABLE 2**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**DCP CR42 CR13 PIPELINE RELEASE**  
**WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>1</sup> (feet)
MW08	5/28/2019	15.78	12.30	3.48	17.78	4,993.26	4,980.09	0.04
MW08	8/8/2019	17.17	13.02	4.15	17.78	4,993.26	4,979.20	-0.89
MW08	9/12/2019	17.78	13.39	4.39	17.78	4,993.26	4,978.77	-0.43
MW09	5/10/2019	10.49			22.92	4,990.30	4,979.81	NA
MW09	5/28/2019	12.44			22.92	4,990.30	4,977.86	-1.95
MW09	8/8/2019	13.68			22.92	4,990.30	4,976.62	-1.24
MW09	9/12/2019	14.06			22.92	4,990.30	4,976.24	-0.38
MW10	5/10/2019	10.99			23.00	4,990.59	4,979.60	NA
MW10	5/28/2019	10.99			23.00	4,990.59	4,979.60	0.00
MW10	8/8/2019	13.20			23.00	4,990.59	4,977.39	-2.21
MW10	9/12/2019	13.62			23.00	4,990.59	4,976.97	-0.42
MW11	5/10/2019	12.10			23.05	4,991.03	4,978.93	NA
MW11	5/28/2019	10.84			23.05	4,991.03	4,980.19	1.26
MW11	8/8/2019	11.70			23.05	4,991.03	4,979.33	-0.86
MW11	9/12/2019	12.03			23.05	4,991.03	4,979.00	-0.33
MW12	5/10/2019	12.51			24.93	4,991.16	4,978.65	NA
MW12	5/28/2019	10.38			24.93	4,991.16	4,980.78	2.13
MW12	8/8/2019	10.82			24.93	4,991.16	4,980.34	-0.44
MW12	9/12/2019	11.22			24.93	4,991.16	4,979.94	-0.40
MW13	5/28/2019	11.20			18.60	4,990.68	4,979.48	NA
MW13	8/8/2019	12.64			18.60	4,990.68	4,978.04	-1.44
MW13	9/12/2019	13.09			18.60	4,990.68	4,977.59	-0.45
MW14	5/28/2019	13.29			18.30	4,991.64	4,978.35	NA
MW14	8/8/2019	14.71			18.30	4,991.64	4,976.93	-1.42
MW14	9/12/2019	15.25			18.30	4,991.64	4,976.39	-0.54
MW15	5/28/2019	13.53			18.24	4,992.24	4,978.71	NA
MW15	8/8/2019	14.72			18.24	4,992.24	4,977.52	-1.19
MW15	9/12/2019	15.09			18.24	4,992.24	4,977.15	-0.37
MW16	6/28/2019	10.40			18.04	4,994.89	4,984.49	NA
MW16	8/8/2019	9.92			18.04	4,994.89	4,984.97	0.48
MW16	9/12/2019	10.65			18.04	4,994.89	4,984.24	-0.73
MW17	6/28/2019	13.46			18.25	4,992.79	4,979.33	NA
MW17	8/8/2019	14.22			18.25	4,992.79	4,978.57	-0.76
MW17	9/12/2019	14.65			18.25	4,992.79	4,978.14	-0.43
MW18	6/28/2019	13.30			18.10	4,992.87	4,979.57	NA
MW18	8/8/2019	14.12			18.10	4,992.87	4,978.75	-0.82
MW18	9/12/2019	14.66			18.10	4,992.87	4,978.21	-0.54
MW19	6/28/2019	13.34			18.41	4,993.16	4,979.82	NA
MW19	8/8/2019	14.32			18.41	4,993.16	4,978.84	-0.98
MW19	9/12/2019	14.86			18.41	4,993.16	4,978.30	-0.54

**TABLE 2**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**DCP CR42 CR13 PIPELINE RELEASE**  
**WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>1</sup> (feet)
MW20	6/28/2019	13.02			18.23	4,993.74	4,980.72	NA
MW20	8/8/2019	13.94			18.23	4,993.74	4,979.80	-0.92
MW20	9/12/2019	14.44			18.23	4,993.74	4,979.30	-0.50
MW21	7/26/2019	17.12			20.45	4,994.76	4,977.64	NA
MW21	8/8/2019	17.25			20.45	4,994.76	4,977.51	-0.13
MW21	9/12/2019	17.70			20.45	4,994.76	4,977.06	-0.45
MW22	7/26/2019	18.81			20.15	4,994.81	4,976.00	NA
MW22	8/8/2019	19.11			20.15	4,994.81	4,975.70	-0.30
MW22	9/12/2019	19.71			20.15	4,994.81	4,975.10	-0.60
MW23	7/26/2019	19.44			21.14	4,994.81	4,975.37	NA
MW23	8/8/2019	19.66			21.14	4,994.81	4,975.15	-0.22
MW23	9/12/2019	20.01			21.14	4,994.81	4,974.80	-0.35
MW24	7/26/2019	17.35			20.50	4,994.32	4,976.97	NA
MW24	8/8/2019	17.55			20.50	4,994.32	4,976.77	-0.20
MW24	9/12/2019	18.15			20.50	4,994.32	4,976.17	-0.60
MW25	7/26/2019	18.16			20.55	4,993.89	4,975.73	NA
MW25	8/8/2019	18.52			20.55	4,993.89	4,975.37	-0.36
MW25	9/12/2019	19.44			20.55	4,993.89	4,974.45	-0.92
MW26	7/26/2019	15.48			19.88	4,994.36	4,978.88	NA
MW26	8/8/2019	15.69			19.88	4,994.36	4,978.67	-0.21
MW26	9/12/2019	16.25			19.88	4,994.36	4,978.11	-0.56
MW27	9/12/2019	19.79			20.35	-	#VALUE!	NA
MW28	9/12/2019	21.45			27.80	-	#VALUE!	NA
MW29	9/12/2019	19.93			25.35	-	#VALUE!	NA
MW30	9/12/2019	17.45			22.78	-	#VALUE!	NA
MW31	9/12/2019	20.31			22.35	-	#VALUE!	NA
MW32	9/12/2019	23.35			24.27	-	#VALUE!	NA
BH17*	4/23/2019	DRY			10.09	4,993.16	NA	NA
BH17*	4/24/2019	DRY			10.11	4,993.16	NA	NA
BH17*	5/10/2019	DRY			10.11	4,993.16	NA	NA
BH19*	4/23/2019	DRY			12.59	4,994.06	NA	NA
BH19*	4/24/2019	DRY			12.60	4,994.06	NA	NA
BH19*	5/10/2019	DRY			12.60	4,994.06	NA	NA
BH20*	4/23/2019	-	11.78	3.26	15.04	4,992.74	NA	NA
BH20*	4/24/2019	-	11.84	3.20	15.04	4,992.74	NA	NA
BH20*	5/10/2019	-	11.95	3.09	15.04	4,992.74	NA	NA
BH20*	5/11/2019	14.99	11.93	3.06	15.04	4,992.74	4,980.05	NA
BH21*	4/23/2019	13.37			14.70	4,992.40	4,979.03	NA

**TABLE 2  
SUMMARY OF GROUNDWATER ELEVATION DATA  
DCP CR42 CR13 PIPELINE RELEASE  
WELD COUNTY, COLORADO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>1</sup> (feet)
BH21*	4/24/2019	13.31			14.70	4,992.40	4,979.09	0.06
BH21*	5/10/2019	13.30			14.70	4,992.40	4,979.10	0.01
BH23*	4/23/2019	DRY			14.99	4,993.56	NA	NA
BH23*	4/24/2019	DRY			15.02	4,993.56	NA	NA
BH23*	5/10/2019	DRY			15.02	4,993.56	NA	NA
Average change in groundwater elevation (8/8/19 through 9/12/19)								-0.47

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well \* LNAPL Relative Density)

LNAPL relative density was assumed to be approximately 0.75

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

DRY = Groundwater was not present within the monitoring well.

NA = Not Applicable

- Groundwater was not present beneath the observed LNAPL within the well during gauging.

\*Temporary piezometer. Well casing was removed between May 12, and May 16, 2019. Measured Total Depths are not representative from ground surface as the top of well casings were completed as stick-up points above ground level.

**TABLE 3**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY**  
**DCP CR42 CR13 PIPELINE RELEASE**  
**WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
<b>COGCC Standards (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	
MW01	5/28/2019	<b>3,930</b>	<b>2,620</b>	111	868	
MW01	8/9/2019	LNAPL				Sample not collected
MW02	5/28/2019	LNAPL				Sample not collected
MW02	8/9/2019	LNAPL				Sample not collected
MW03	5/28/2019	<b>918</b>	108	4.78	92.7	
MW03	8/9/2019	<b>5410</b>	352	11	468	
MW03 (Duplicate B)	8/9/2019	<b>5780</b>	428	11.1	478	
MW04	5/28/2019	<b>6,720</b>	<b>2,340</b>	56.9	471	
MW04	8/9/2019	<b>11,600</b>	439	10.2	897	
MW05	5/28/2019	<b>1,160</b>	<b>705</b>	46.9	300.0	
MW05	8/9/2019	DRY				Sample not collected
MW06	5/28/2019	DRY				Sample not collected
MW06	8/9/2019	DRY				Sample not collected
MW07	5/28/2019	<b>352</b>	161	4.64	36.7	
MW07	8/9/2019	<b>253</b>	1.93	<1.00	22.4	
MW08	5/28/2019	LNAPL				Sample not collected
MW08	8/9/2019	LNAPL				Sample not collected
MW09	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW09	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW10	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW10	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW11	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW11	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW12	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW12	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW13	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW13	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW14	5/28/2019	<b>125</b>	47.6	<1.00	6.87	
MW14	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW15	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW15	8/9/2019	<b>16.4</b>	<1.00	<1.00	<1.00	
MW16	6/28/2019	<1.00	<1.00	<1.00	<2.00	
MW16	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW17	6/28/2019	<1.00	<1.00	<1.00	<2.00	
MW17	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW18	6/28/2019	<1.00	<1.00	<1.00	<2.00	
MW18	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW19	6/28/2019	<1.00	<1.00	<1.00	<2.00	
MW19	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW20	6/28/2019	<1.00	<1.00	<1.00	<2.00	
MW20	8/9/2019	<1.00	<1.00	<1.00	<1.00	

**TABLE 3**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY**  
**DCP CR42 CR13 PIPELINE RELEASE**  
**WELD COUNTY, COLORADO**

MW21	7/26/2019	<b>927</b>	<b>681</b>	51.1	521	
MW21	8/9/2019	<b>115</b>	40	1.06	119	
MW21 (Duplicate A)	8/9/2019	<b>42.8</b>	31.8	<1.00	99.5	
MW22	7/26/2019	<1.00	<1.00	<1.00	<1.00	
MW22	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW23	7/26/2019	<1.00	<1.00	<1.00	<1.00	
MW23	8/9/2019	DRY				Sample not collected
MW24	7/26/2019	<b>6.39</b>	<1.00	<1.00	<1.00	
MW24	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW25	7/26/2019	<b>176</b>	150	9.2	56.5	
MW25	8/9/2019	<b>112</b>	9.14	2.78	18.9	
MW26	7/26/2019	<b>117</b>	37.1	2.36	16.8	
MW26 (Duplicate A)	7/26/2019	<b>117</b>	39.7	2.49	17.7	
MW26	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW27	9/13/2019	<b>5460</b>	<b>4730</b>	209	1360	
MW28	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW29	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW30	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW31	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW32	9/13/2019	<1.00	<1.00	<1.00	<1.00	

Notes:

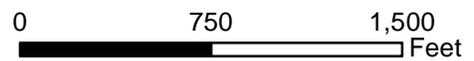
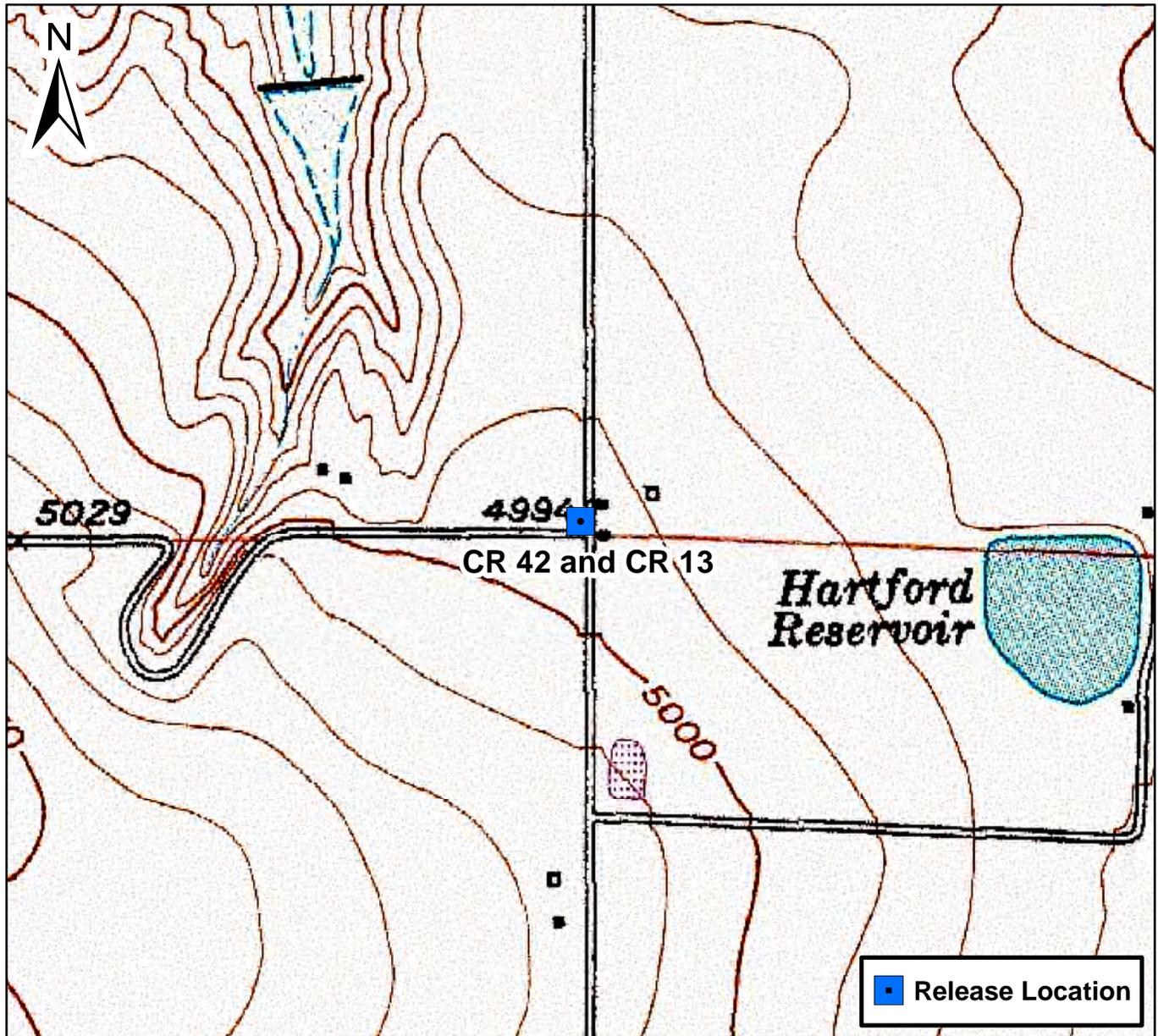
1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 **Bold red** values indicate an exceedance of the COGCC groundwater standards for the Site.

µg/L = micrograms per liter.

LNAPL - Light Non-Aqueous Phase Liquid

DRY - Well was dry

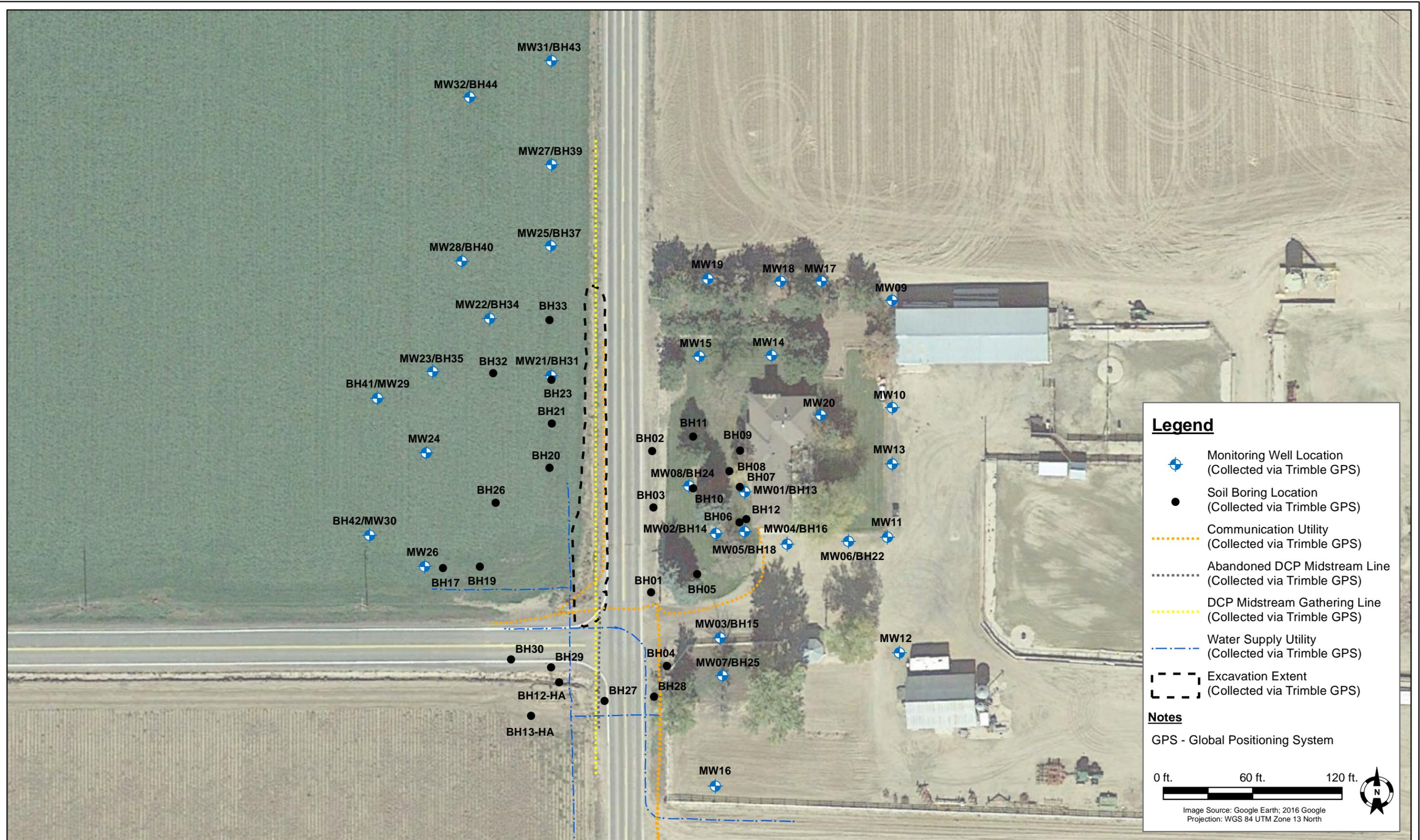
## Figures



### Figure 1

Site Location Map  
 CR 42 and CR 13  
 SESE S24 T4N R68W  
 Weld County, Colorado





**Legend**

-  Monitoring Well Location  
(Collected via Trimble GPS)
-  Soil Boring Location  
(Collected via Trimble GPS)
-  Communication Utility  
(Collected via Trimble GPS)
-  Abandoned DCP Midstream Line  
(Collected via Trimble GPS)
-  DCP Midstream Gathering Line  
(Collected via Trimble GPS)
-  Water Supply Utility  
(Collected via Trimble GPS)
-  Excavation Extent  
(Collected via Trimble GPS)

**Notes**

GPS - Global Positioning System

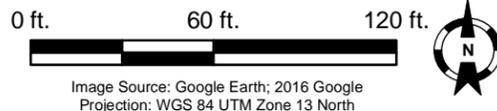


Image Source: Google Earth; 2016 Google  
Projection: WGS 84 UTM Zone 13 North

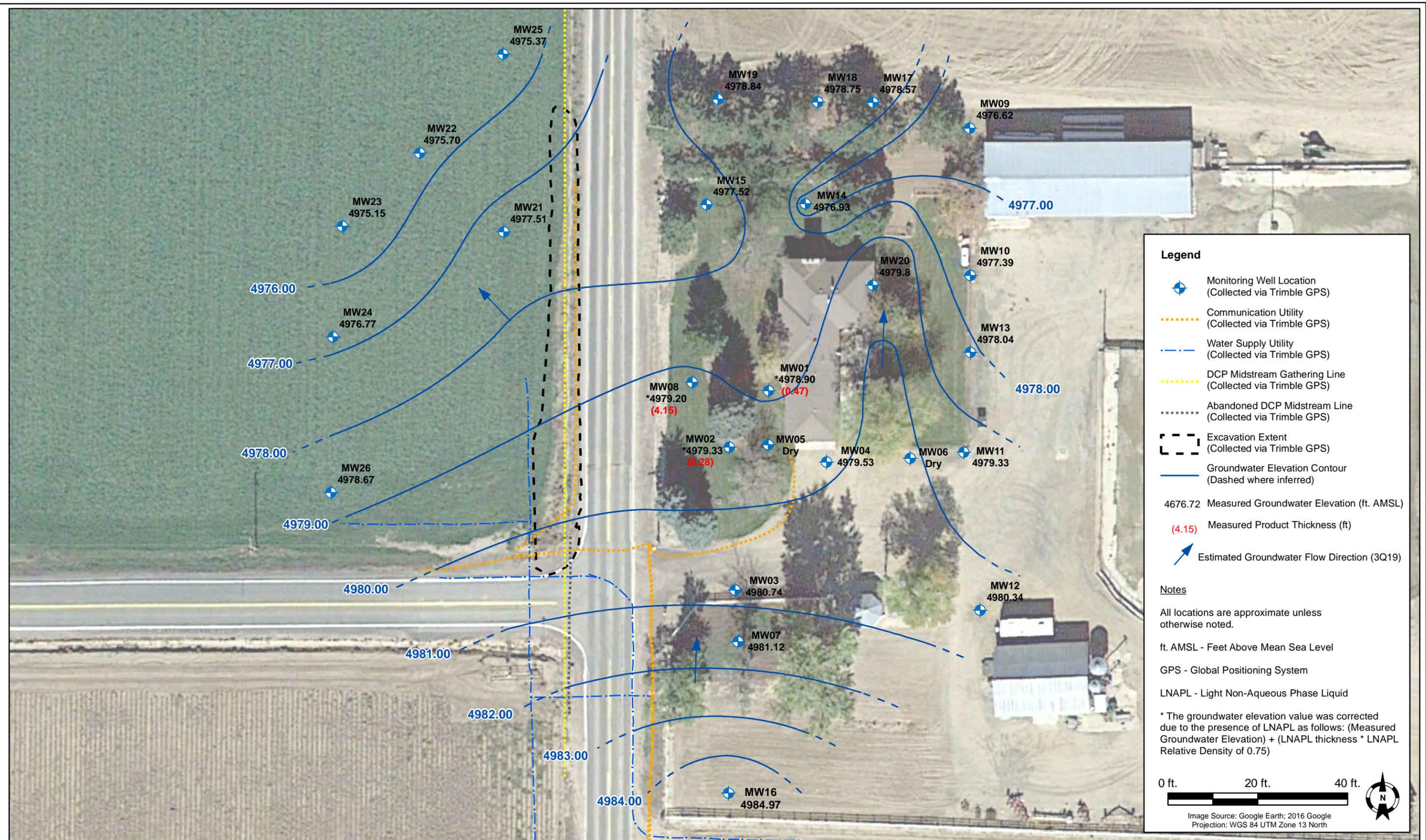
DATE:	September 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin



**DCP Midstream - DJ Basin**  
**CR 42 and CR 13**  
 SESE, Section 24, Township 4 North, Range 68 West  
 Weld County, Colorado

Soil Boring and Monitoring  
 Well Locations Map

Figure  
 2



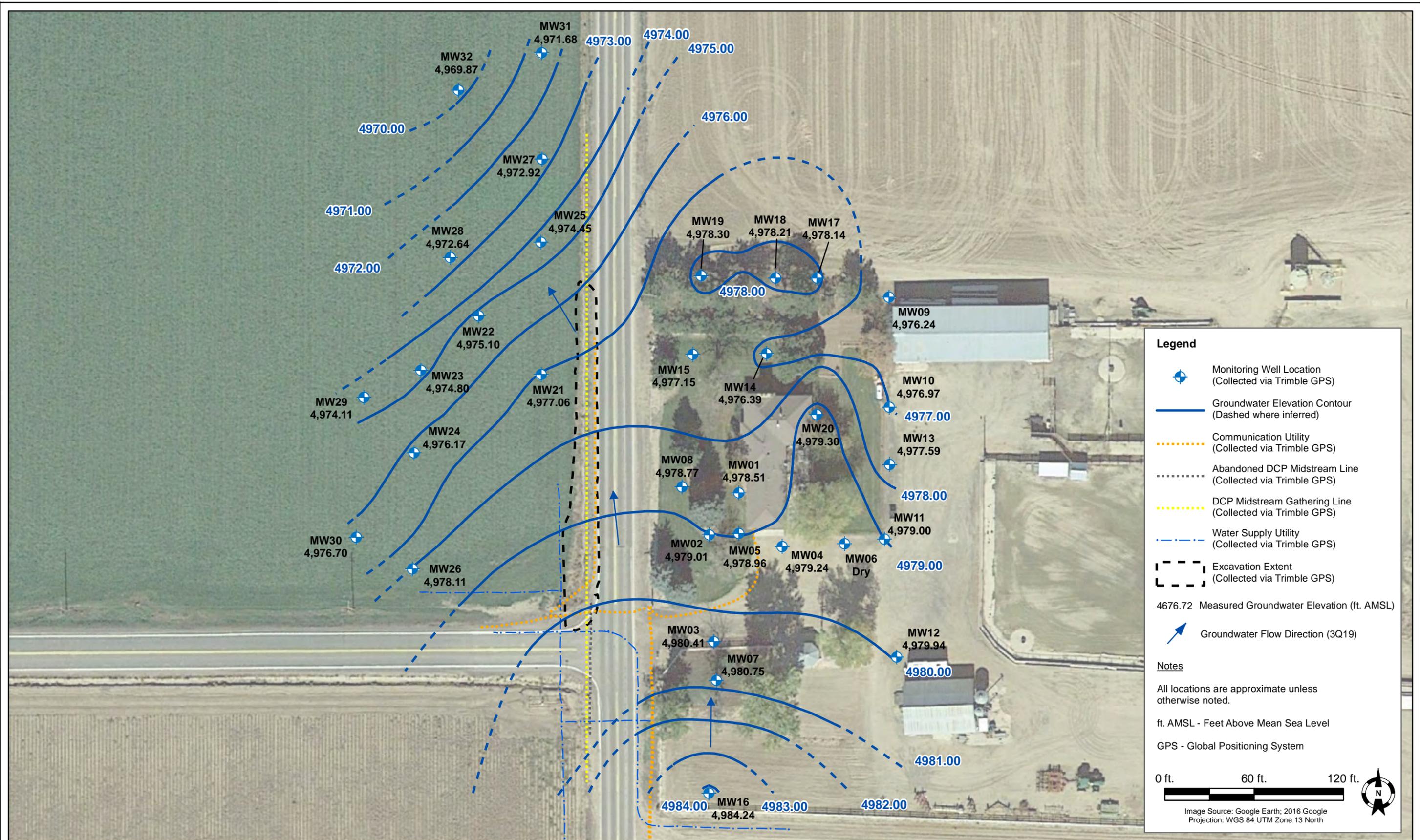
DATE: August 2019  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: J. Clonts



**DCP Midstream - DJ Basin**  
**CR 42 and CR 13**  
 SESE, Section 24, Township 4 North, Range 68 West  
 Weld County, Colorado

Groundwater Elevation  
 Contour Map  
 (08/08/2019)

Figure  
 3



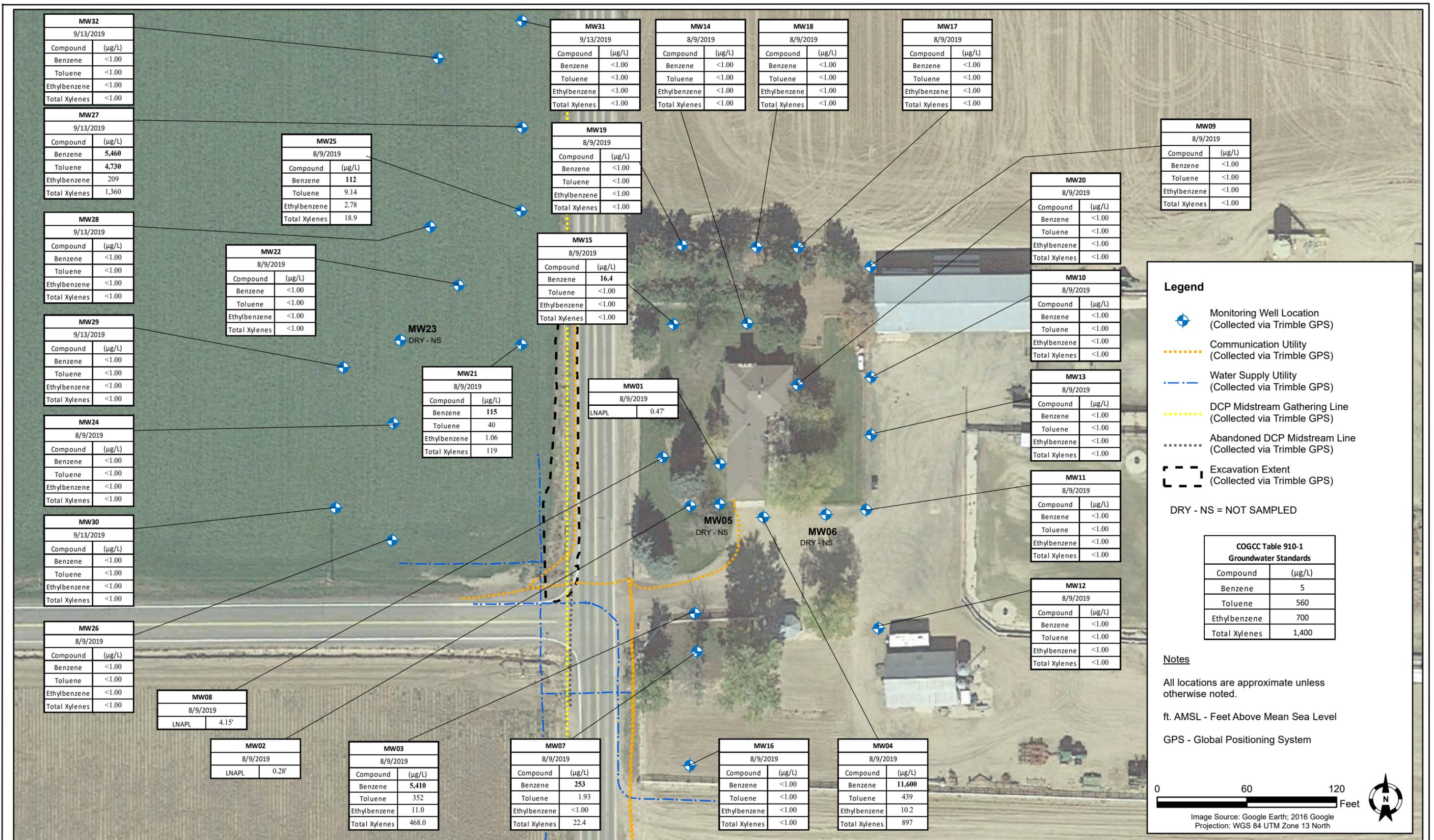
DATE: September 2019  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: L. Martin



**DCP Midstream - DJ Basin**  
**CR 42 and CR 13**  
 SESE, Section 24, Township 4 North, Range 68 West  
 Weld County, Colorado

Groundwater Elevation  
 Contour Map  
 (09/12/2019)

Figure  
 4



DATE: September 2019  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: J. Clonts



**DCP Midstream - DJ Basin**  
**CR 42 and CR 13**  
 SESE, Section 24, Township 4 North, Range 68 West  
 Weld County, Colorado

Groundwater Analytical Map  
 (August / September 2019)

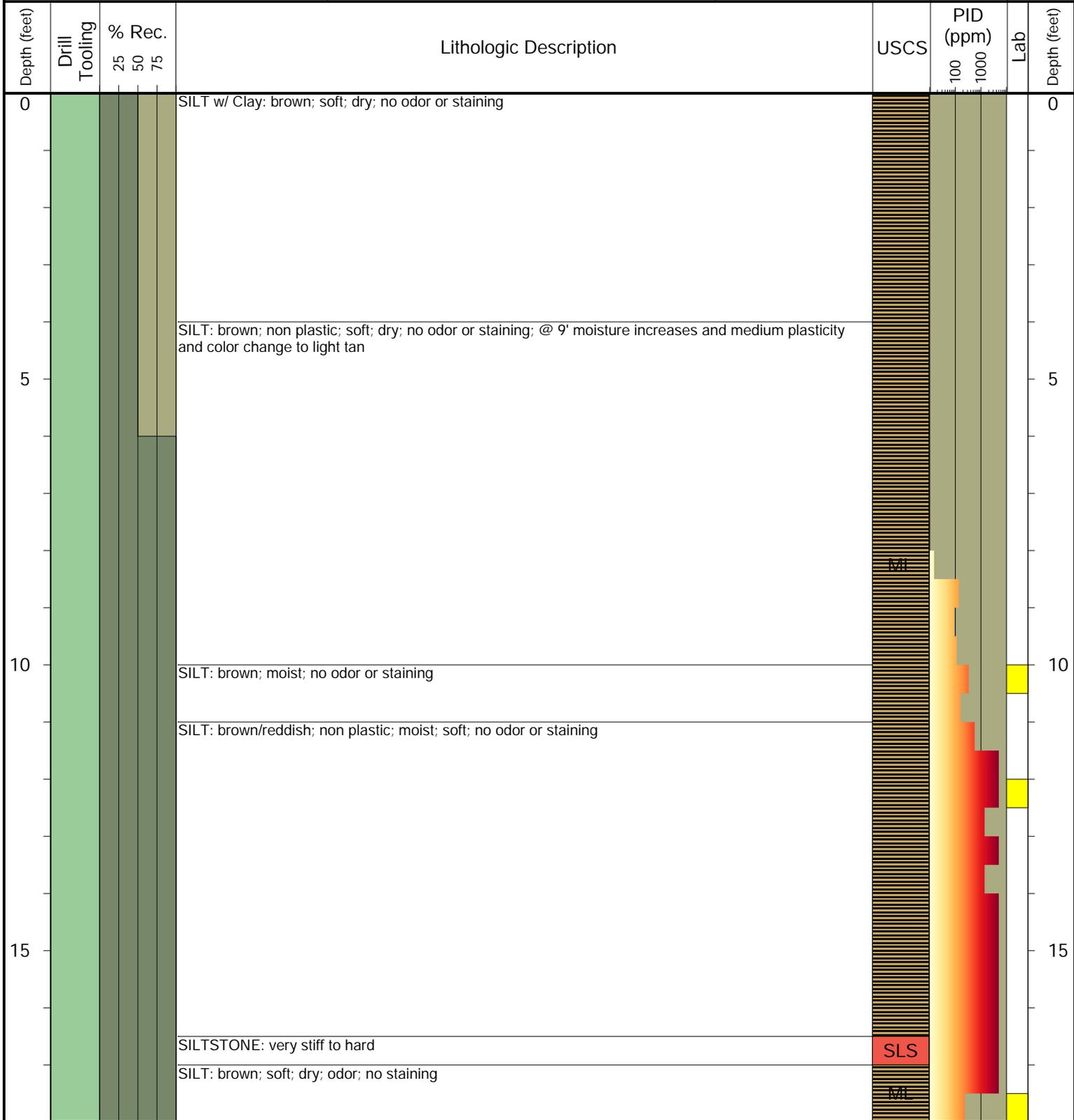
Figure  
 5

Appendix A  
Lithologic Boring Logs



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	<b>CR42 and CR13</b>
LOGGED BY: B. Everett	
PROJECT MANAGER: B. Humphrey	<b>BORING ID: BH32</b>
DRILLING CONTRACTOR: Tasman Geosciences	
DRILLING EQUIPMENT: PowerProbe 9580	LOCATION: Weld County, CO
DRILL BIT SIZE (INCHES): 2.25	NORTHING (UTM ZONE 13N): -
DATE STARTED - COMPLETED: 7/11/2019 - 7/11/2019	EASTING (UTM ZONE 13N): -
TOTAL WELL DEPTH (FT. BGS): 18	GROUND ELEVATION (FT. AMSL): -
DEPTH WATER ENCOUNTERED (FT. BGS):	ABANDONMENT METHOD: Bentonite



**Drilling / Sample Method:**

- Macro-Core
- Expendable Well Tip
- Perforated Injection Tool
- HydroPunch Groundwater Sampler

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: PowerProbe 9580

DRILL BIT SIZE (INCHES): 2.25

DATE STARTED - COMPLETED: 7/11/2019 - 7/11/2019

TOTAL WELL DEPTH (FT. BGS): 16

DEPTH WATER ENCOUNTERED (FT. BGS):

CR42 and CR13

BORING ID: BH33

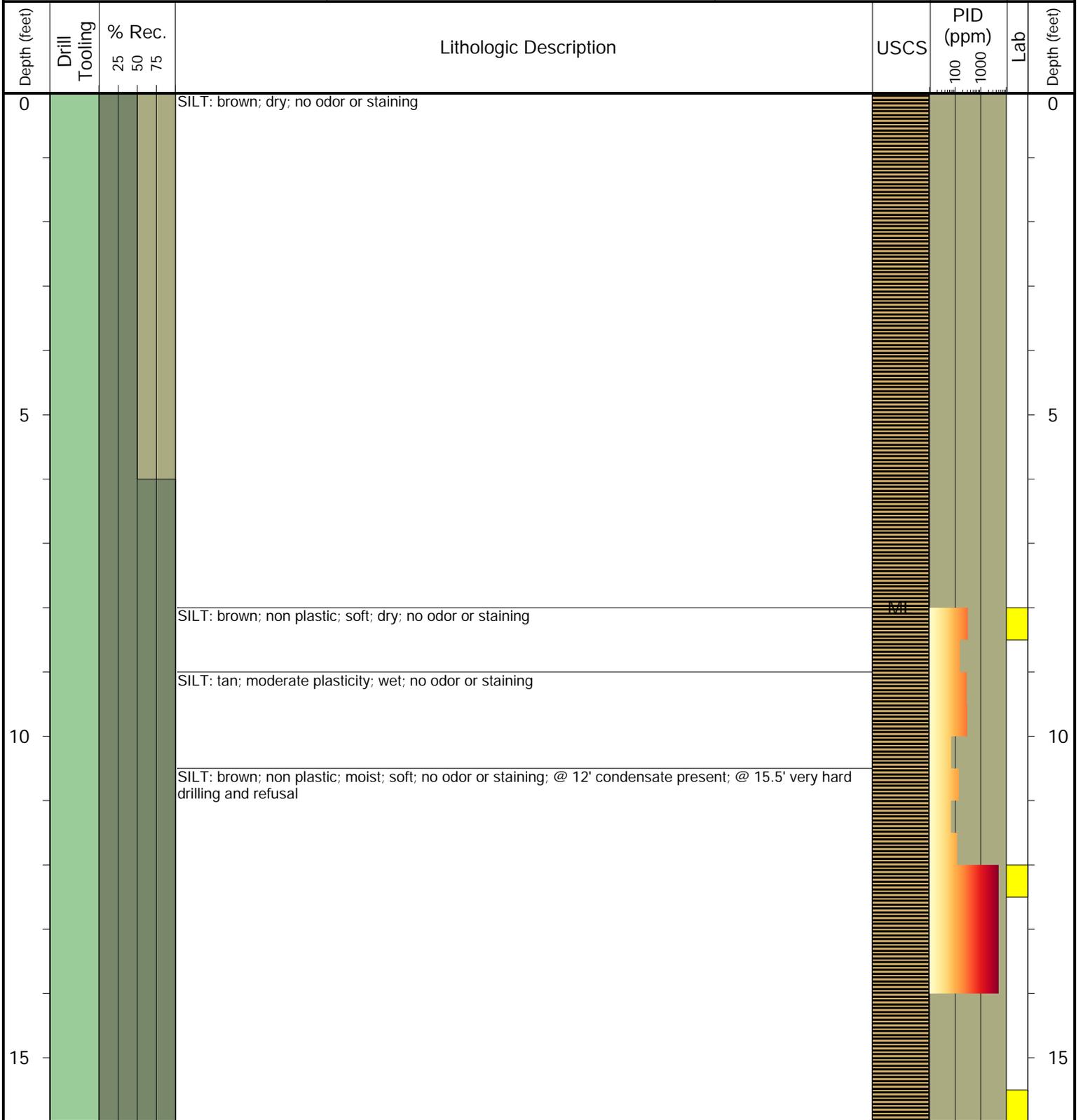
LOCATION: Weld County, CO

NORTHING (UTM ZONE 13N): -

EASTING (UTM ZONE 13N): -

GROUND ELEVATION (FT. AMSL): -

ABANDONMENT METHOD: Bentonite



Drilling / Sample Method:

- Macro-Core
- Expendable Well Tip
- Perforated Injection Tool
- HydroPunch Groundwater Sampler

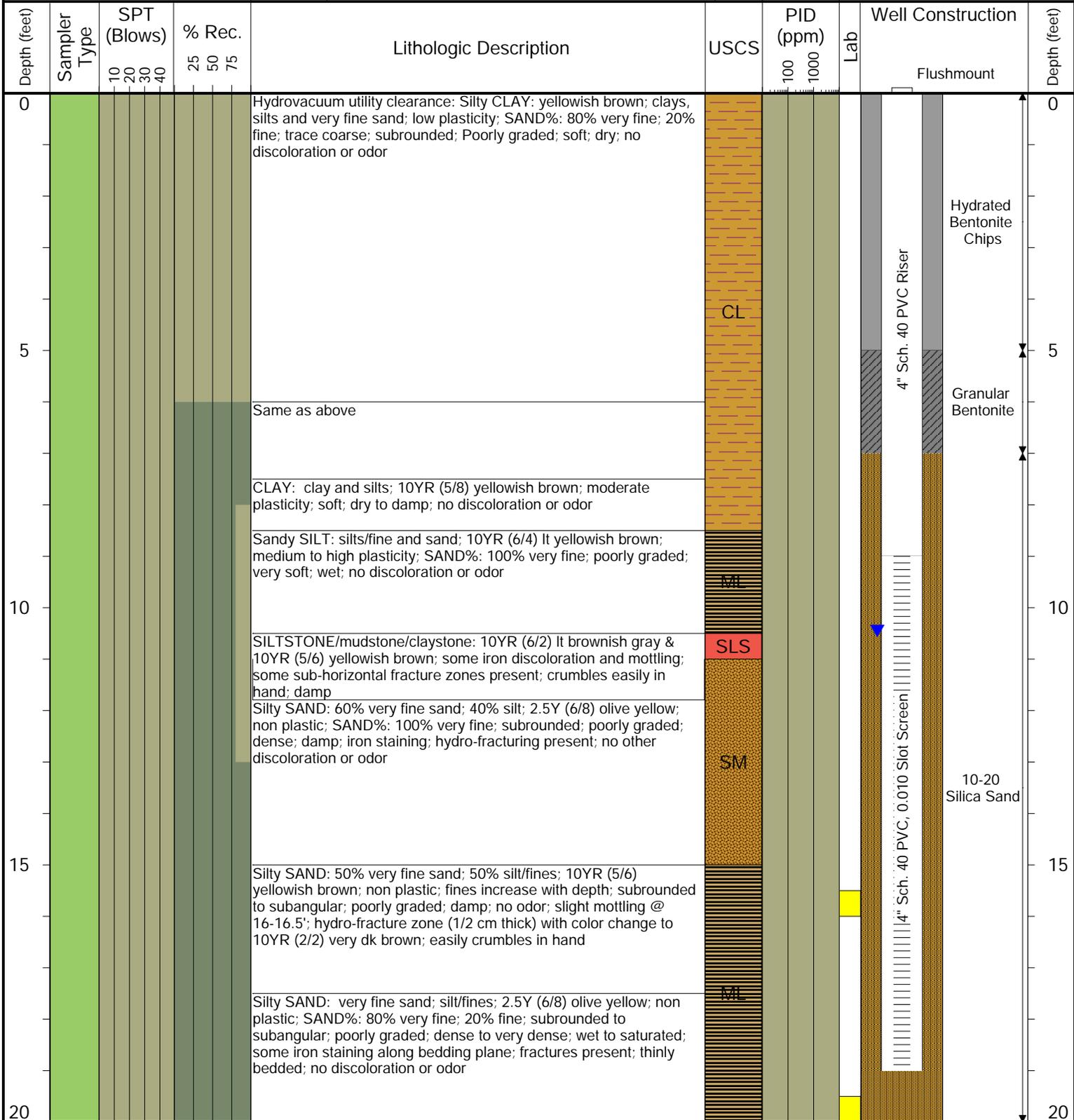
Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	CR42 and CR13
LOGGED BY: J. Watts	
PROJECT MANAGER: B. Humphrey	BORING / WELL ID: MW16
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 75	LOCATION: Weld County, Colorado
DRILL BIT SIZE (INCHES): 10	LATITUDE: 40.291758303253
DATE STARTED - COMPLETED: 6/13/19 - 6/13/19	LONGITUDE: -104.94152295112
TOTAL WELL DEPTH (FT. BGS): 20	CASING ELEVATION (FT. AMSL): 4994.89
DEPTH TO WATER (FT. BGS): 10.45	GROUND ELEVATION (FT. AMSL): 4995.31



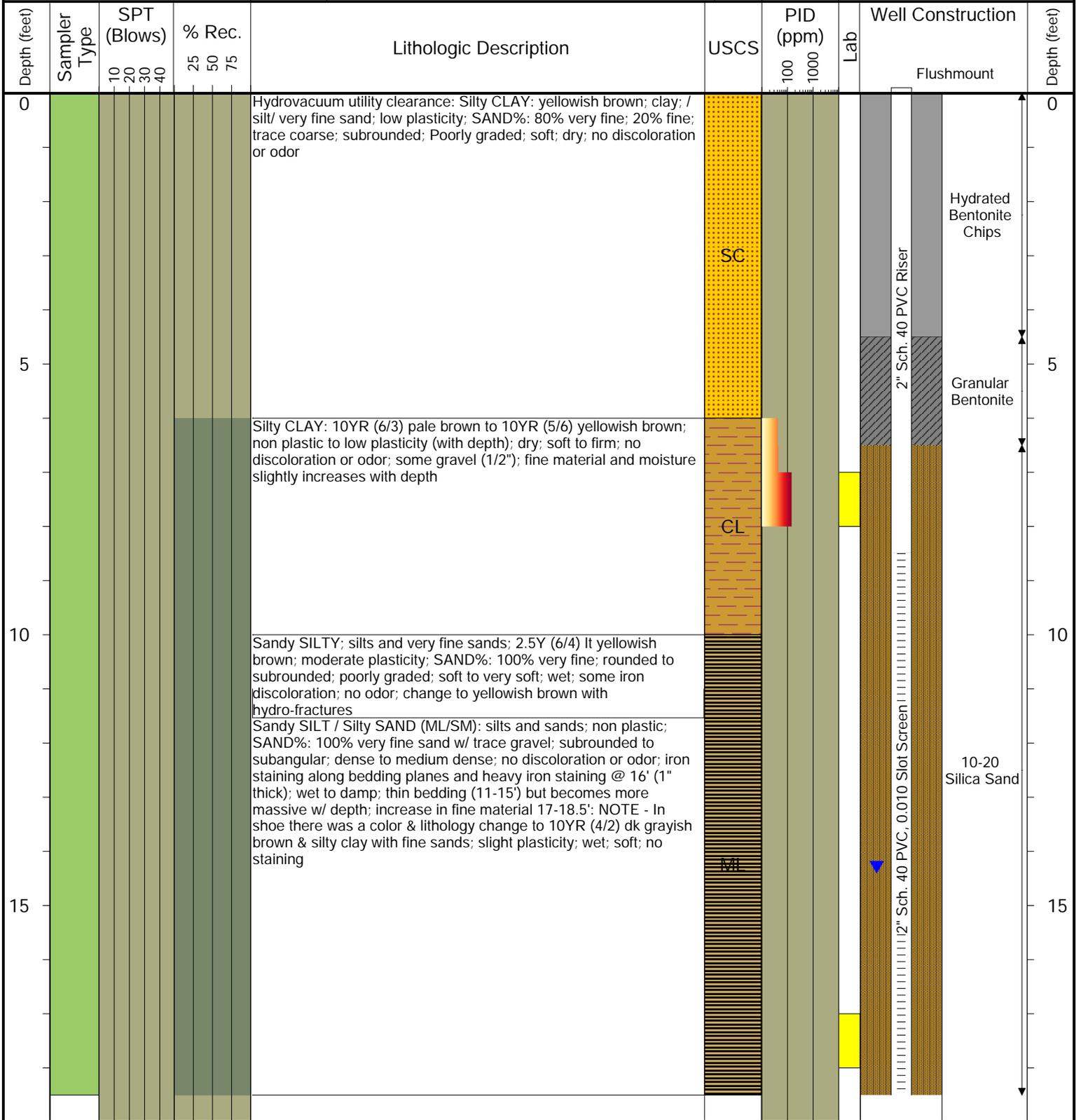
<b>Drilling / Sample Method:</b>		<b>Laboratory Sample Types:</b>	
Solid Stem Auger	Split Spoon Sampler	Geotechnical Lab	Geotechnical & Analytical Chemistry Lab
Hollow Stem Auger	CME Continuous Sample Tube	Analytical Chemistry Lab	





6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	CR42 and CR13
LOGGED BY: J. Watts	
PROJECT MANAGER: B. Humphrey	BORING / WELL ID: MW18
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 75	LOCATION: Weld County, Colorado
DRILL BIT SIZE (INCHES): 8	LATITUDE: 40.292706768766
DATE STARTED - COMPLETED: 6/13/19 - 6/13/19	LONGITUDE: -104.94136172419
TOTAL WELL DEPTH (FT. BGS): 18.5	CASING ELEVATION (FT. AMSL): 4992.87
DEPTH TO WATER (FT. BGS): 14.29	GROUND ELEVATION (FT. AMSL): 4993.12



**Drilling / Sample Method:**

- Solid Stem Auger
- Split Spoon Sampler
- CME Continuous Sample Tube
- Hollow Stem Auger

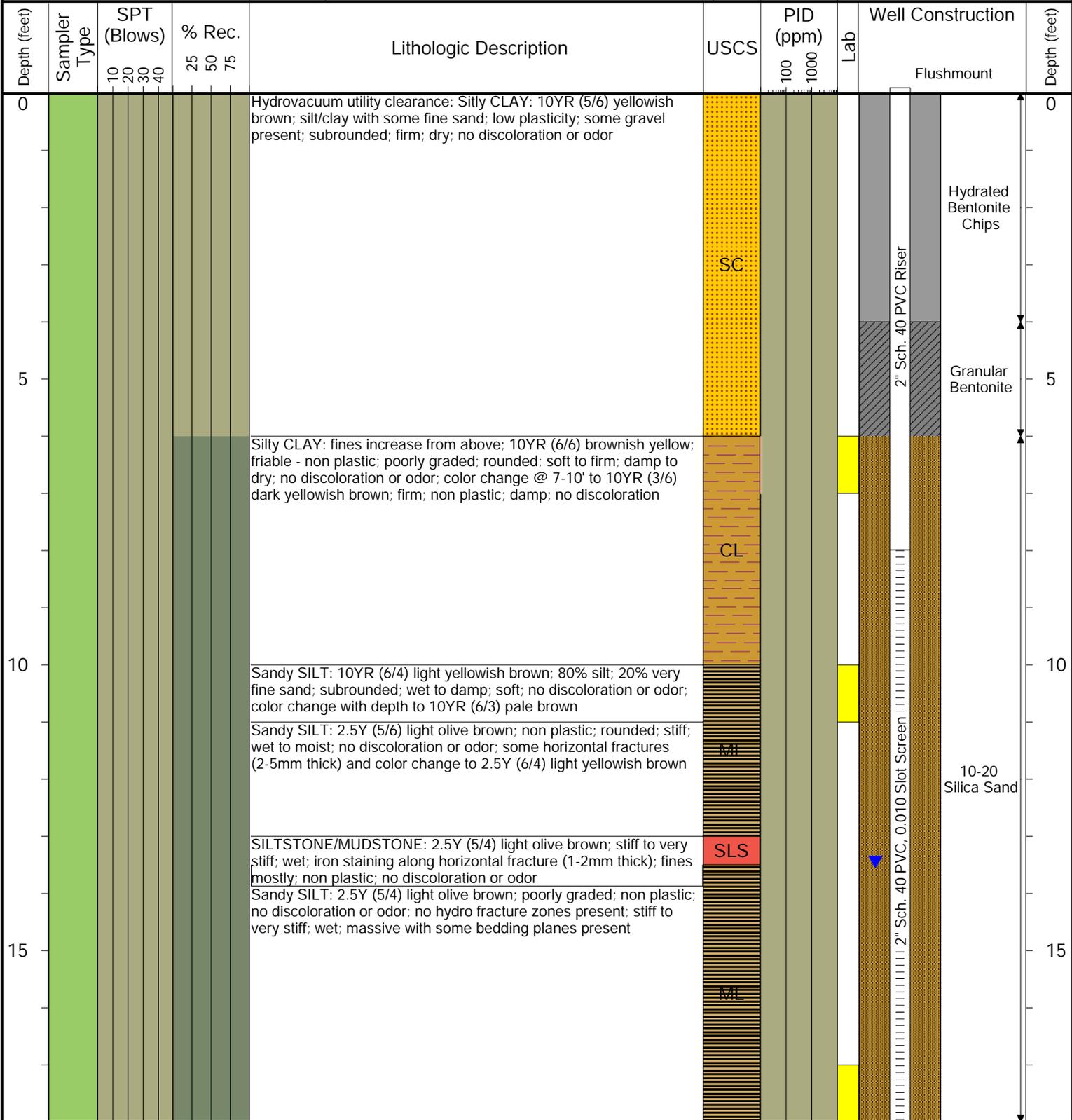
**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	CR42 and CR13
LOGGED BY: J. Watts	
PROJECT MANAGER: B. Humphrey	BORING / WELL ID: MW19
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 55	LOCATION: Weld County, Colorado
DRILL BIT SIZE (INCHES): 8	LATITUDE: 40.292710669018
DATE STARTED - COMPLETED: 6/20/19 - 6/20/19	LONGITUDE: -104.94154077838
TOTAL WELL DEPTH (FT. BGS): 18	CASING ELEVATION (FT. AMSL): 4993.16
DEPTH TO WATER (FT. BGS): 13.45	GROUND ELEVATION (FT. AMSL): 4993.34

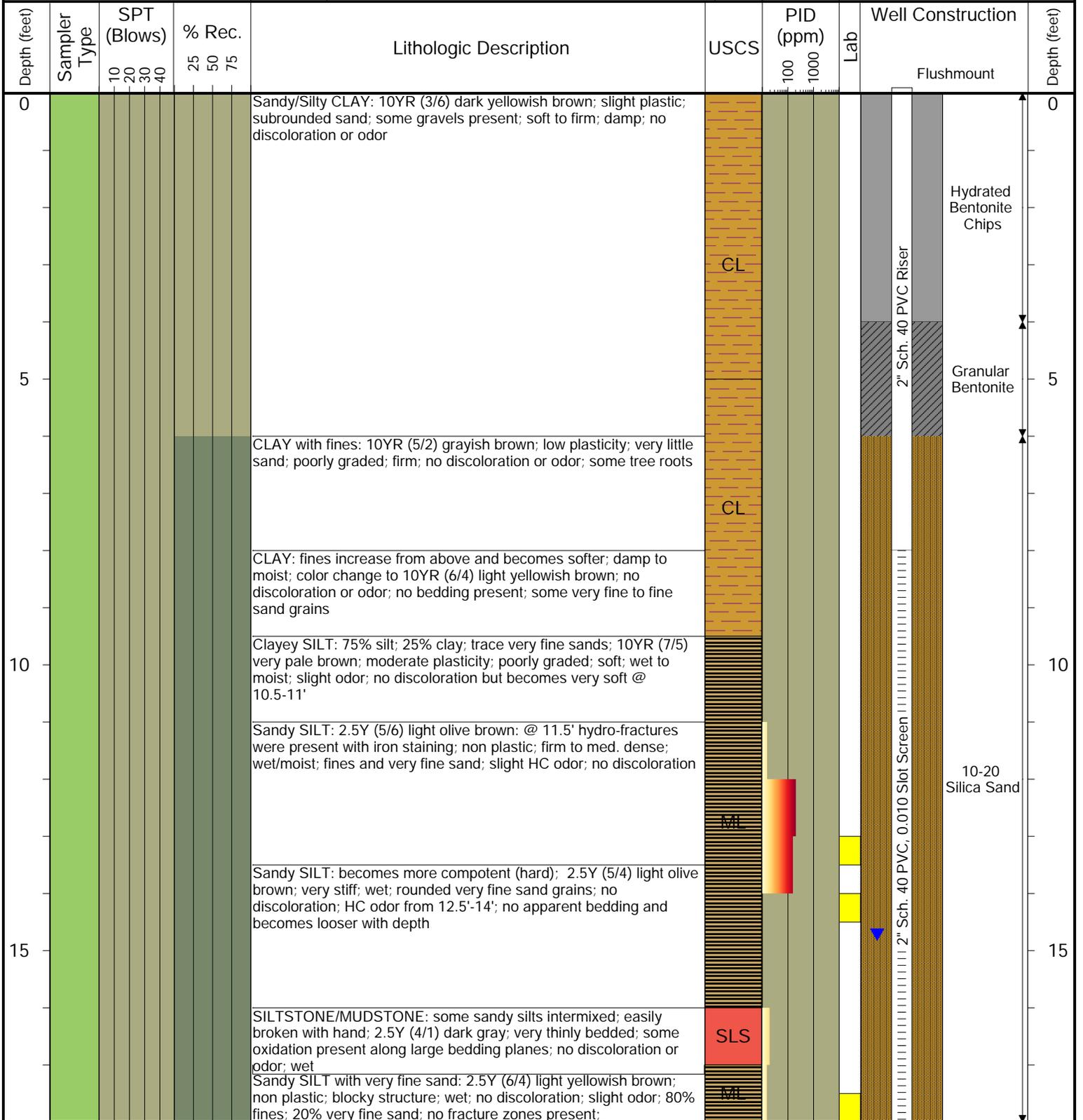


<b>Drilling / Sample Method:</b>				<b>Laboratory Sample Types:</b>			
Solid Stem Auger	Split Spoon Sampler	Geotechnical Lab	Geotechnical & Analytical Chemistry Lab	Hollow Stem Auger	CME Continuous Sample Tube	Analytical Chemistry Lab	



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	CR42 and CR13
LOGGED BY: J. Watts	
PROJECT MANAGER: B. Humphrey	BORING / WELL ID: MW20
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 55	LOCATION: Weld County, Colorado
DRILL BIT SIZE (INCHES): 8	LATITUDE: 40.292455107388
DATE STARTED - COMPLETED: 6/20/19 - 6/20/19	LONGITUDE: -104.94126307827
TOTAL WELL DEPTH (FT. BGS): 18	CASING ELEVATION (FT. AMSL): 4993.74
DEPTH TO WATER (FT. BGS): 14.72	GROUND ELEVATION (FT. AMSL): 4993.91



**Drilling / Sample Method:**

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

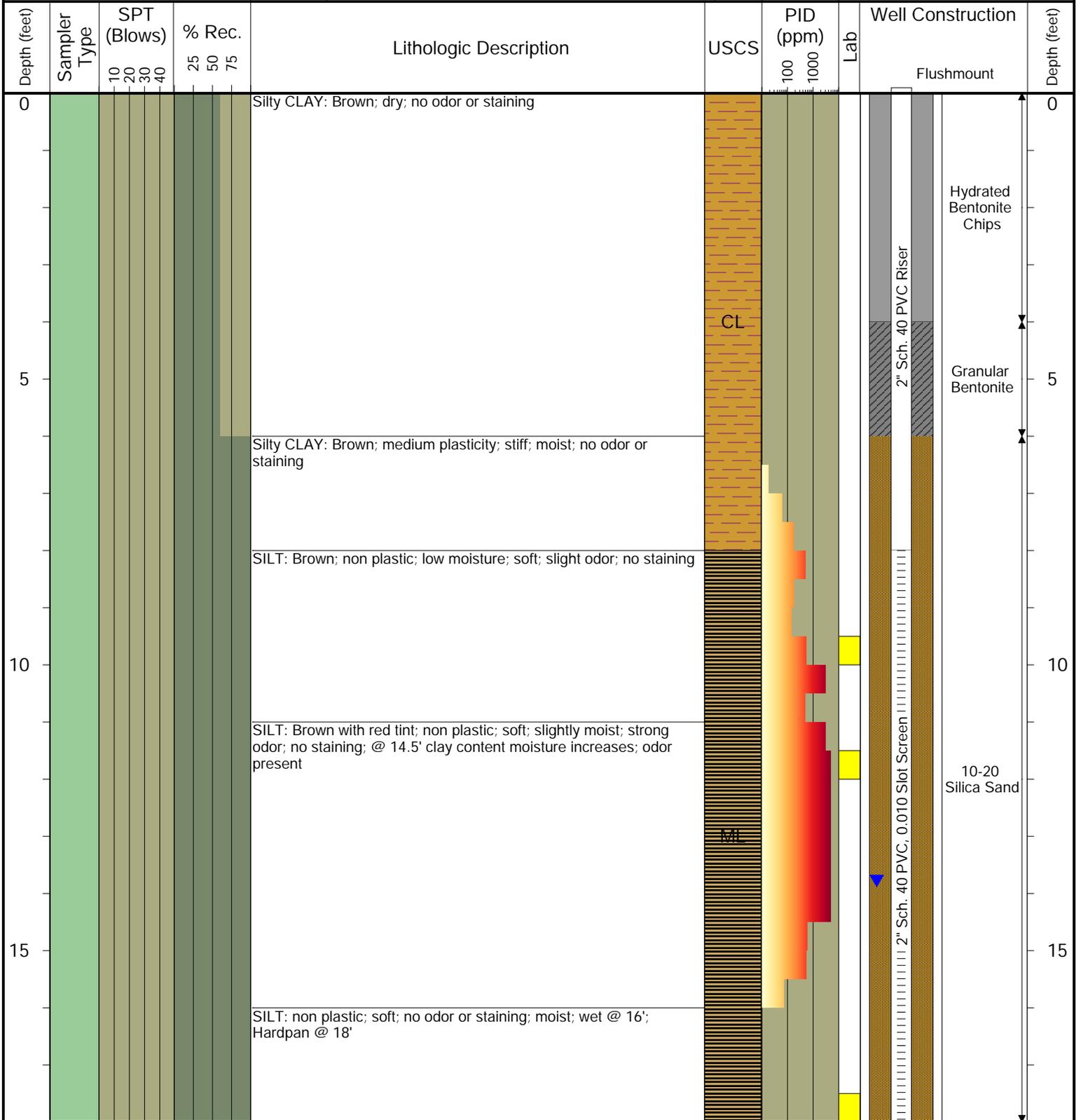
**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	<b>CR42 and CR13</b>
LOGGED BY: B. Everett	
PROJECT MANAGER: B. Humphrey	<b>BORING / WELL ID: BH31 / MW21</b>
DRILLING CONTRACTOR: Tasman Geosciences	
DRILLING EQUIPMENT: PowerProbe 9580	LOCATION: Weld County
DRILL BIT SIZE (INCHES): 6.25	LATITUDE: 40.2925289
DATE STARTED - COMPLETED: 7/10/19 - 7/11/19	LONGITUDE: -104.9419261
TOTAL WELL DEPTH (FT. BGS): 18	CASING ELEVATION (FT. AMSL): 4994.76
DEPTH TO WATER (FT. BGS): 13.78 ▼	GROUND ELEVATION (FT. AMSL): 4991.91



**Drilling / Sample Method:**

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



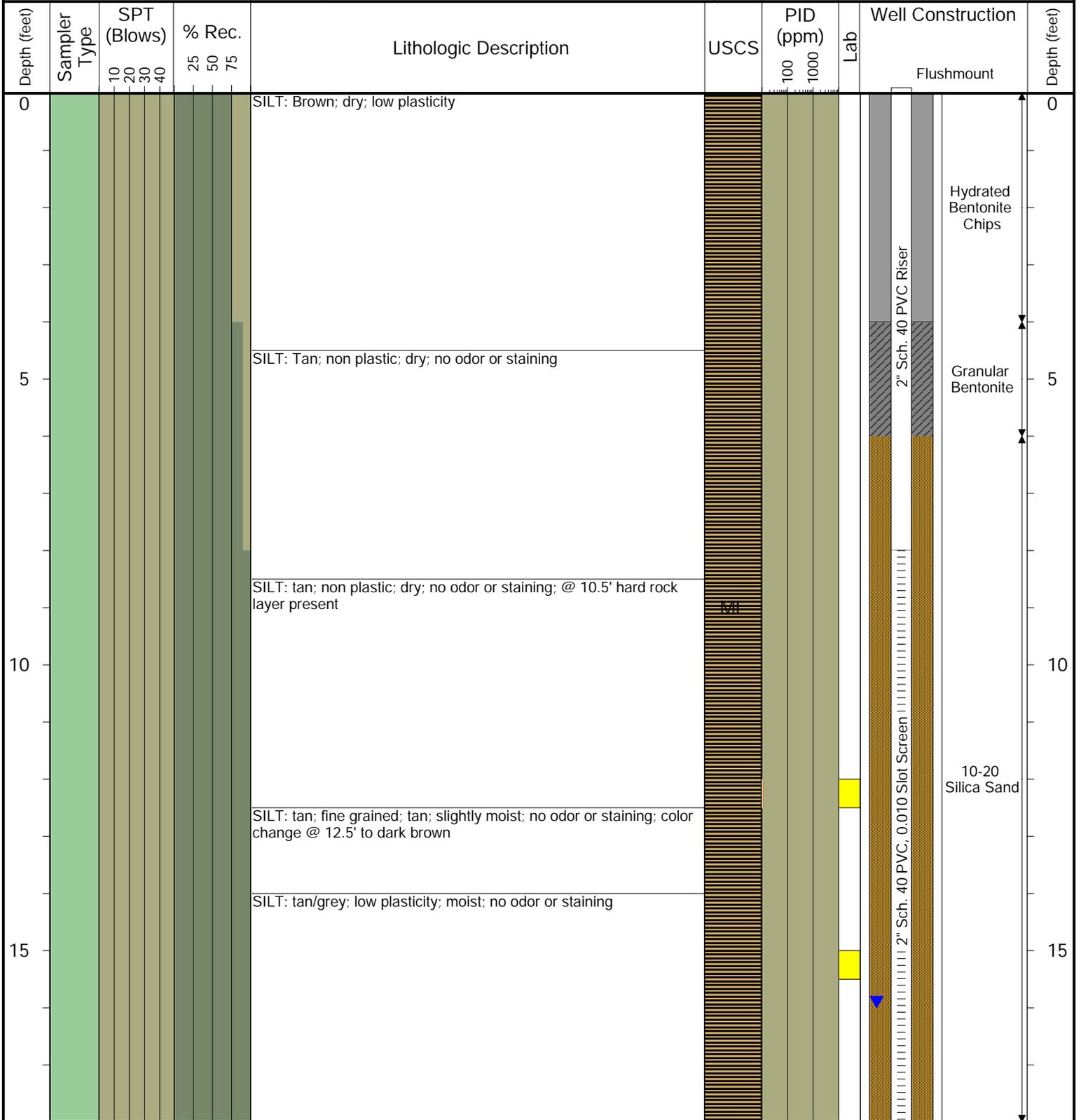
6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream  
 LOGGED BY: B. Humphrey  
 PROJECT MANAGER: B. Humphrey  
 DRILLING CONTRACTOR: Tasman Geosciences  
 DRILLING EQUIPMENT: PowerProbe 9580  
 DRILL BIT SIZE (INCHES): 6.25  
 DATE STARTED - COMPLETED: 7/11/19 - 7/11/19  
 TOTAL WELL DEPTH (FT. BGS): 18  
 DEPTH TO WATER (FT. BGS): 15.9

CR42 and CR13

BORING / WELL ID: BH34 / MW22

LOCATION: Weld County  
 LATITUDE: 40.292636855  
 LONGITUDE: -104.942076703  
 CASING ELEVATION (FT. AMSL): 4994.81  
 GROUND ELEVATION (FT. AMSL): 4991.79



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

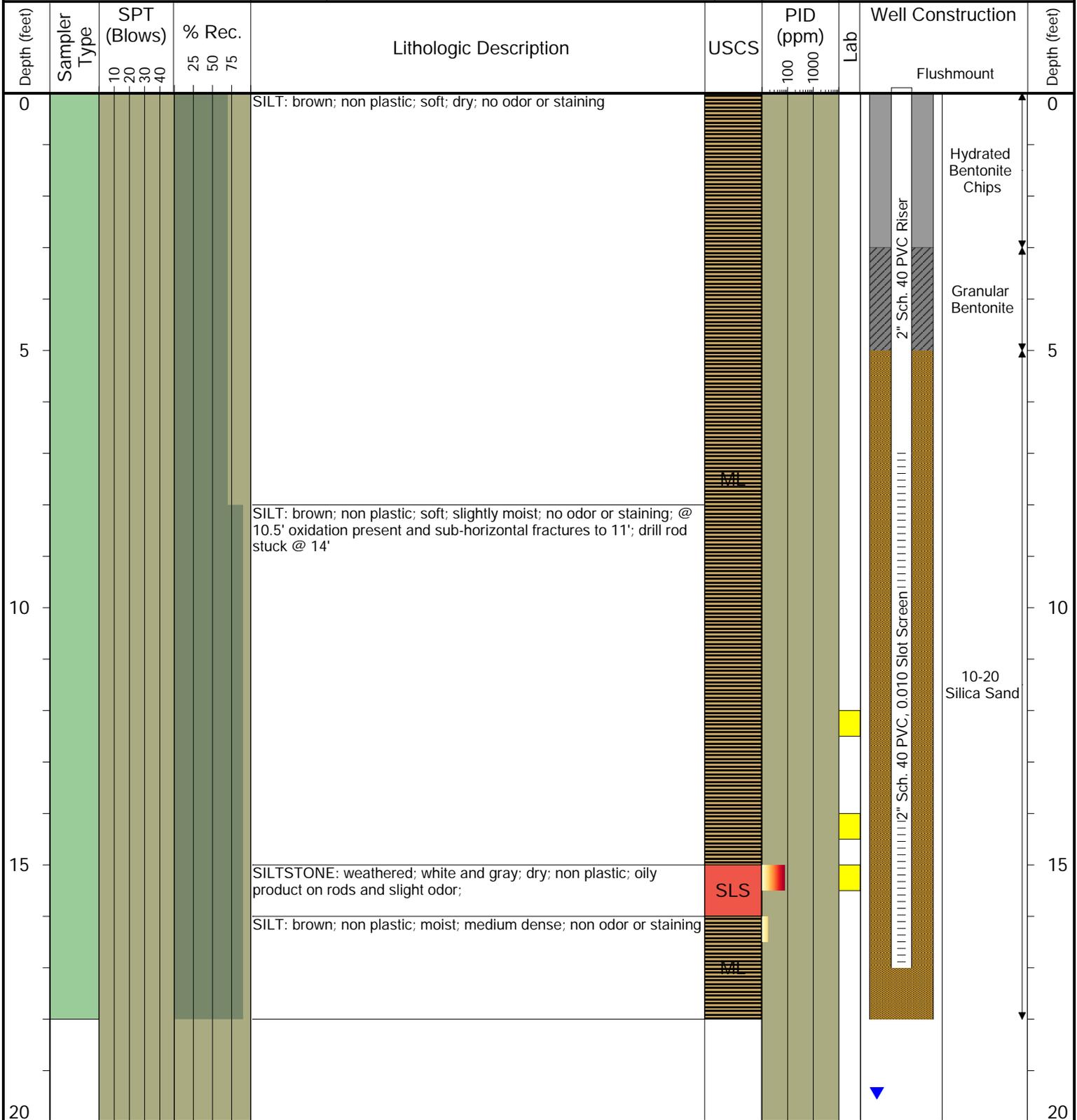
Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	<b>CR42 and CR13</b>
LOGGED BY: B. Everett	
PROJECT MANAGER: B. Humphrey	<b>BORING / WELL ID: BH35 / MW23</b>
DRILLING CONTRACTOR: Tasman Geosciences	
DRILLING EQUIPMENT: PowerProbe 9580	LOCATION: Weld County
DRILL BIT SIZE (INCHES): 6.25	LATITUDE: 40.292536685
DATE STARTED - COMPLETED: 7/12/19 - 7/12/19	LONGITUDE: -104.942216362
TOTAL WELL DEPTH (FT. BGS): 18	CASING ELEVATION (FT. AMSL): 4994.81
DEPTH TO WATER (FT. BGS): 19.44 ▼	GROUND ELEVATION (FT. AMSL): 4992.03



**Drilling / Sample Method:**

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Everett

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: PowerProbe 9580

DRILL BIT SIZE (INCHES): 6.25

DATE STARTED - COMPLETED: 7/12/19 - 7/12/19

TOTAL WELL DEPTH (FT. BGS): 19

DEPTH TO WATER (FT. BGS): 17.35

CR42 and CR13

BORING / WELL ID: BH36 / MW24

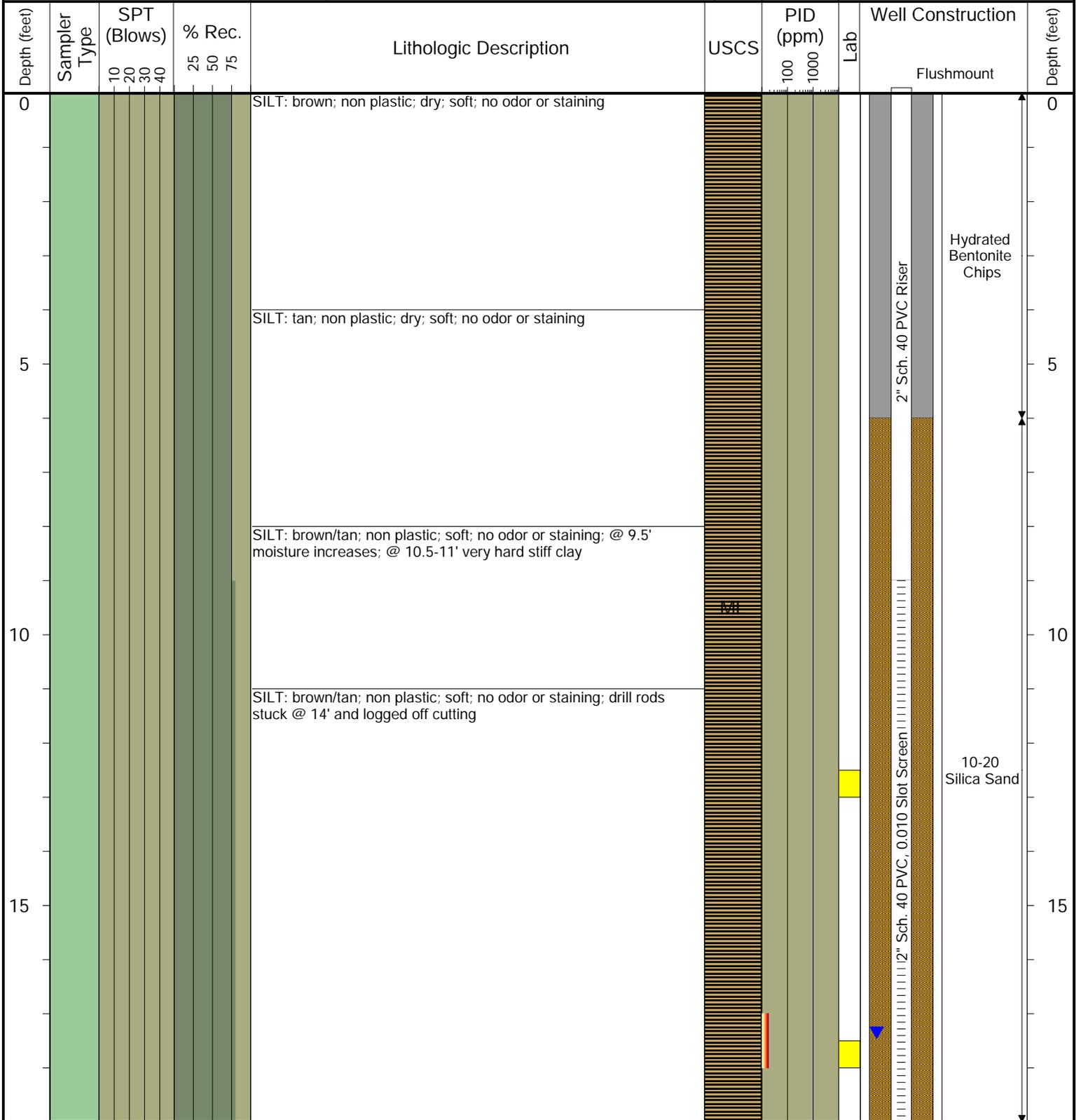
LOCATION: Weld County

LATITUDE: 40.292384958

LONGITUDE: -104.942233121

CASING ELEVATION (FT. AMSL): 4994.32

GROUND ELEVATION (FT. AMSL): 4992.33



Drilling / Sample Method:

- Solid Stem Auger
- Hollow Stem Auger
- Split Spoon Sampler
- CME Continuous Sample Tube

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: J. Watts

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Tasman Geosciences

DRILLING EQUIPMENT: PowerProbe 9580

DRILL BIT SIZE (INCHES): 6.25

DATE STARTED - COMPLETED: 7/25/19 - 7/25/19

TOTAL WELL DEPTH (FT. BGS): 18

DEPTH TO WATER (FT. BGS): 18.16

CR42 and CR13

BORING / WELL ID: BH37 / MW25

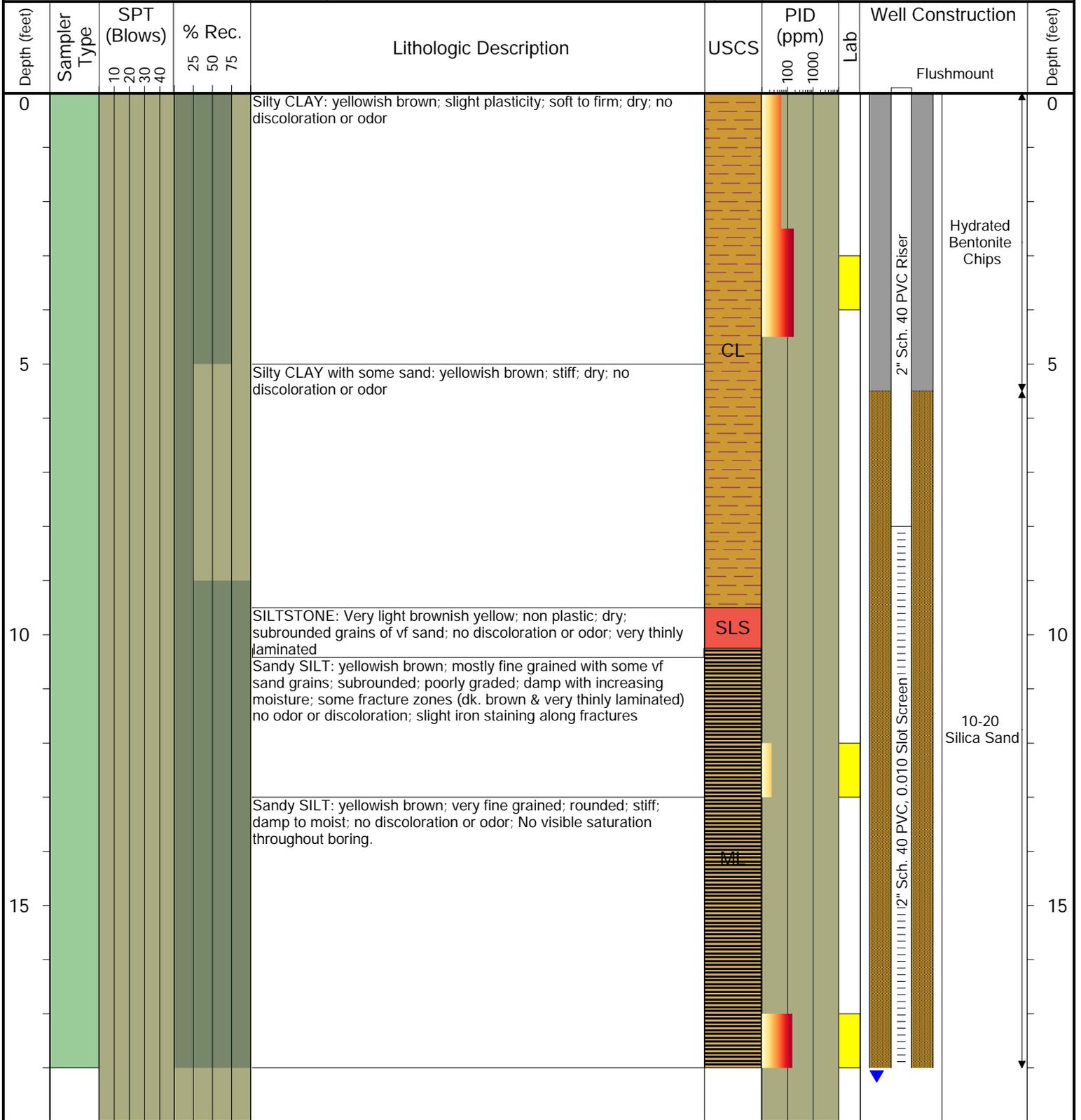
LOCATION: Weld County

LATITUDE: 40.292772867

LONGITUDE: -104.941927027

CASING ELEVATION (FT. AMSL): 4993.89

GROUND ELEVATION (FT. AMSL): 4992.09



Drilling / Sample Method:

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

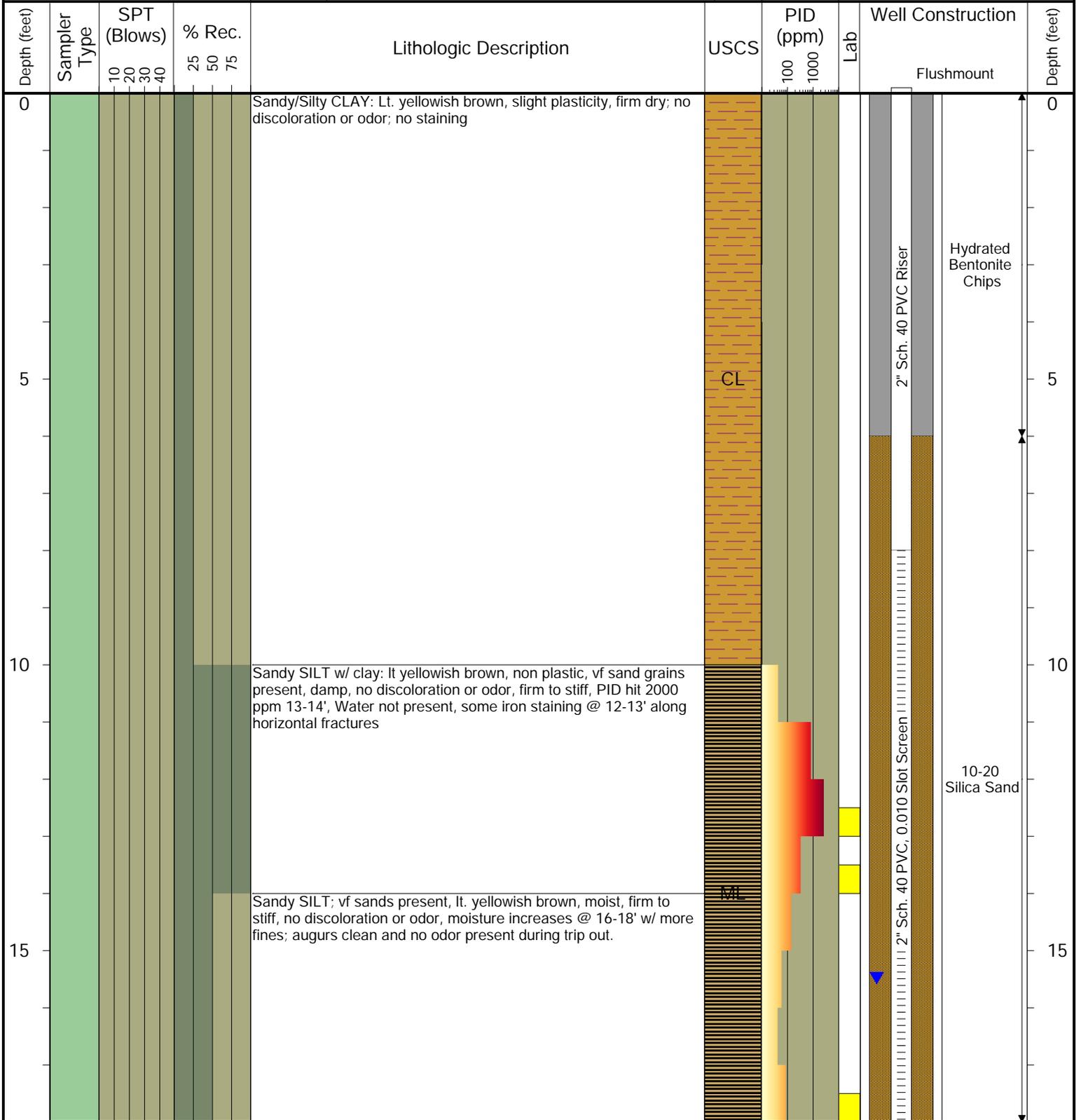
Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	CR42 and CR13
LOGGED BY: J. Watts	
PROJECT MANAGER: B. Humphrey	BORING / WELL ID: BH38 / MW26
DRILLING CONTRACTOR: Tasman Geosciences	
DRILLING EQUIPMENT: PowerProbe 9580	LOCATION: Weld County
DRILL BIT SIZE (INCHES): 6.25	LATITUDE: 40.292170774
DATE STARTED - COMPLETED: 7/25/19 - 7/25/19	LONGITUDE: -104.942236776
TOTAL WELL DEPTH (FT. BGS): 18	CASING ELEVATION (FT. AMSL): 4994.36
DEPTH TO WATER (FT. BGS): 15.48 ▼	GROUND ELEVATION (FT. AMSL): 4993.08



**Drilling / Sample Method:**

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: J. Watts

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8.25

DATE STARTED - COMPLETED: 9/10/19 - 9/10/19

TOTAL WELL DEPTH (FT. BGS): 19

DEPTH TO WATER (FT. BGS): 17.99

CR42 and CR13

BORING / WELL ID: BH39 / MW27

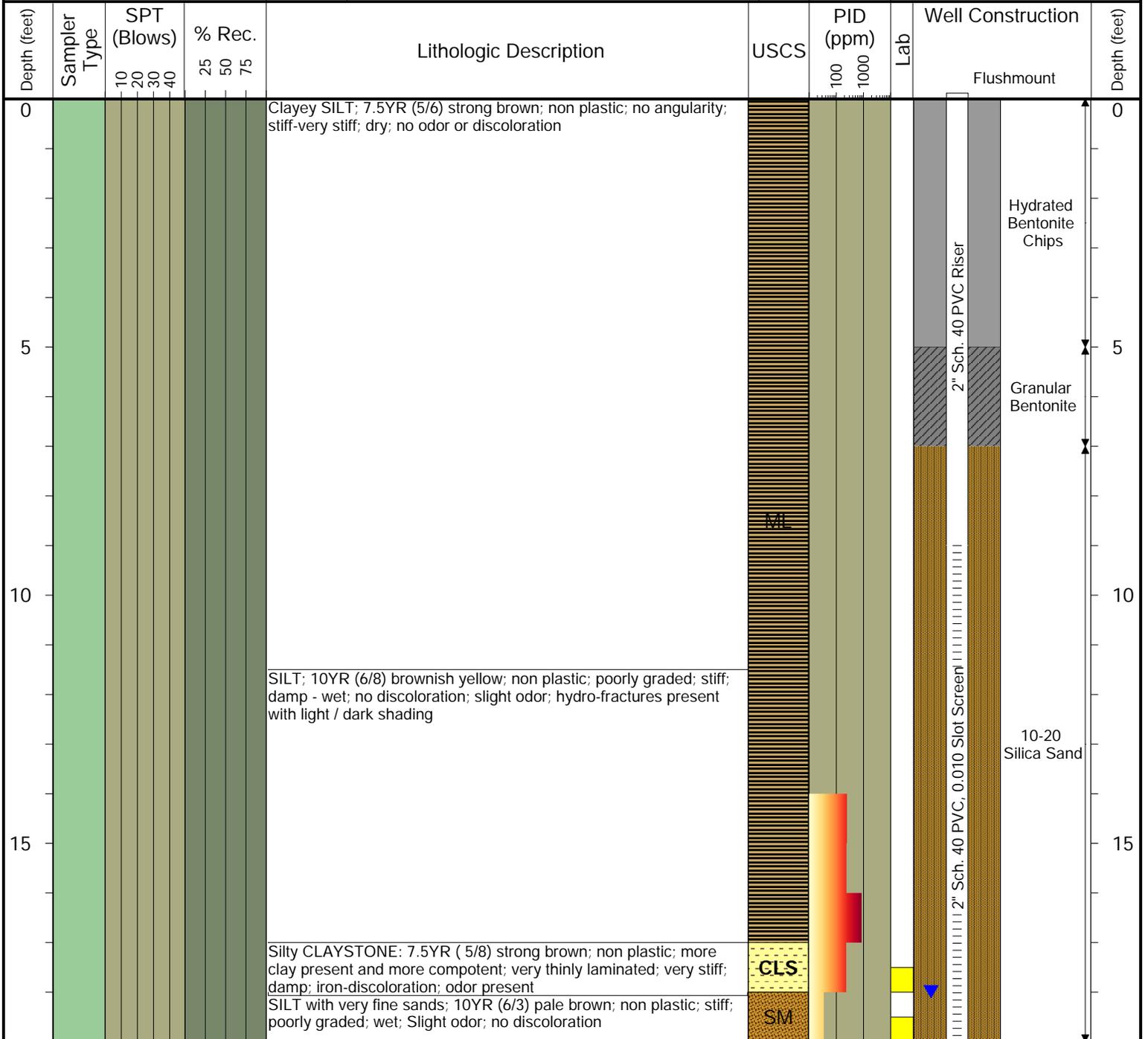
LOCATION: Weld County

LATITUDE: 40.292925409

LONGITUDE: -104.941924047

CASING ELEVATION (FT. AMSL): 4992.71

GROUND ELEVATION (FT. AMSL): 4990.98



Drilling / Sample Method:

- Solid Stem Auger
- Hollow Stem Auger
- Split Spoon Sampler
- CME Continuous Sample Tube

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Gabel

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8.25

DATE STARTED - COMPLETED: 9/10/19 - 9/10/19

TOTAL WELL DEPTH (FT. BGS): 23.5

DEPTH TO WATER (FT. BGS): 21.25

CR42 and CR13

BORING / WELL ID: BH40 / MW28

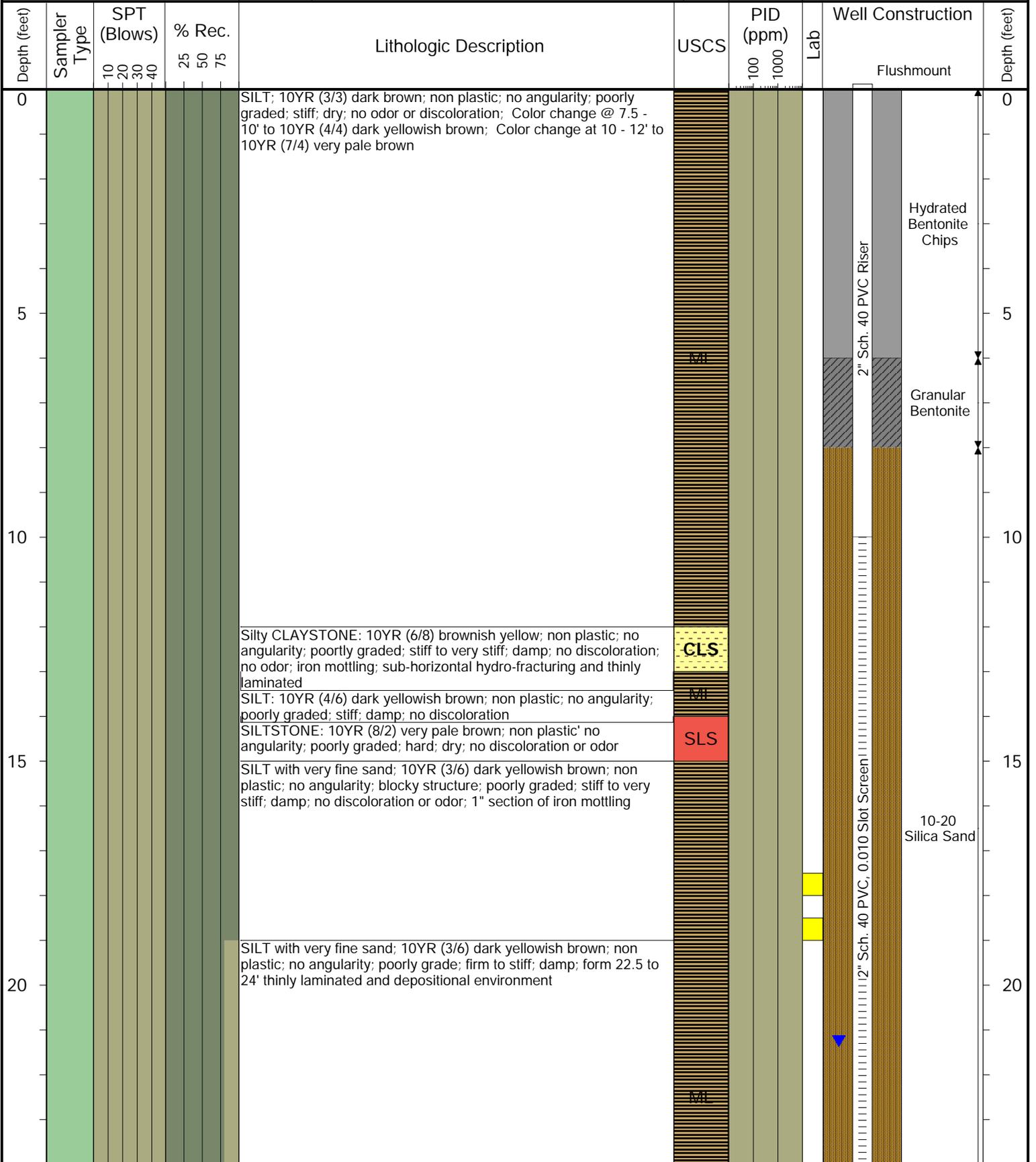
LOCATION: Weld County

LATITUDE: 40.292744465

LONGITUDE: -104.942144808

CASING ELEVATION (FT. AMSL): 4994.09

GROUND ELEVATION (FT. AMSL): 4991.42





6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream

LOGGED BY: B. Gabel

PROJECT MANAGER: B. Humphrey

DRILLING CONTRACTOR: Site Services Drilling

DRILLING EQUIPMENT: CME 55

DRILL BIT SIZE (INCHES): 8.25

DATE STARTED - COMPLETED: 9/10/19 - 9/10/19

TOTAL WELL DEPTH (FT. BGS): 23.5

DEPTH TO WATER (FT. BGS): 19.84

CR42 and CR13

BORING / WELL ID: BH41 / MW29

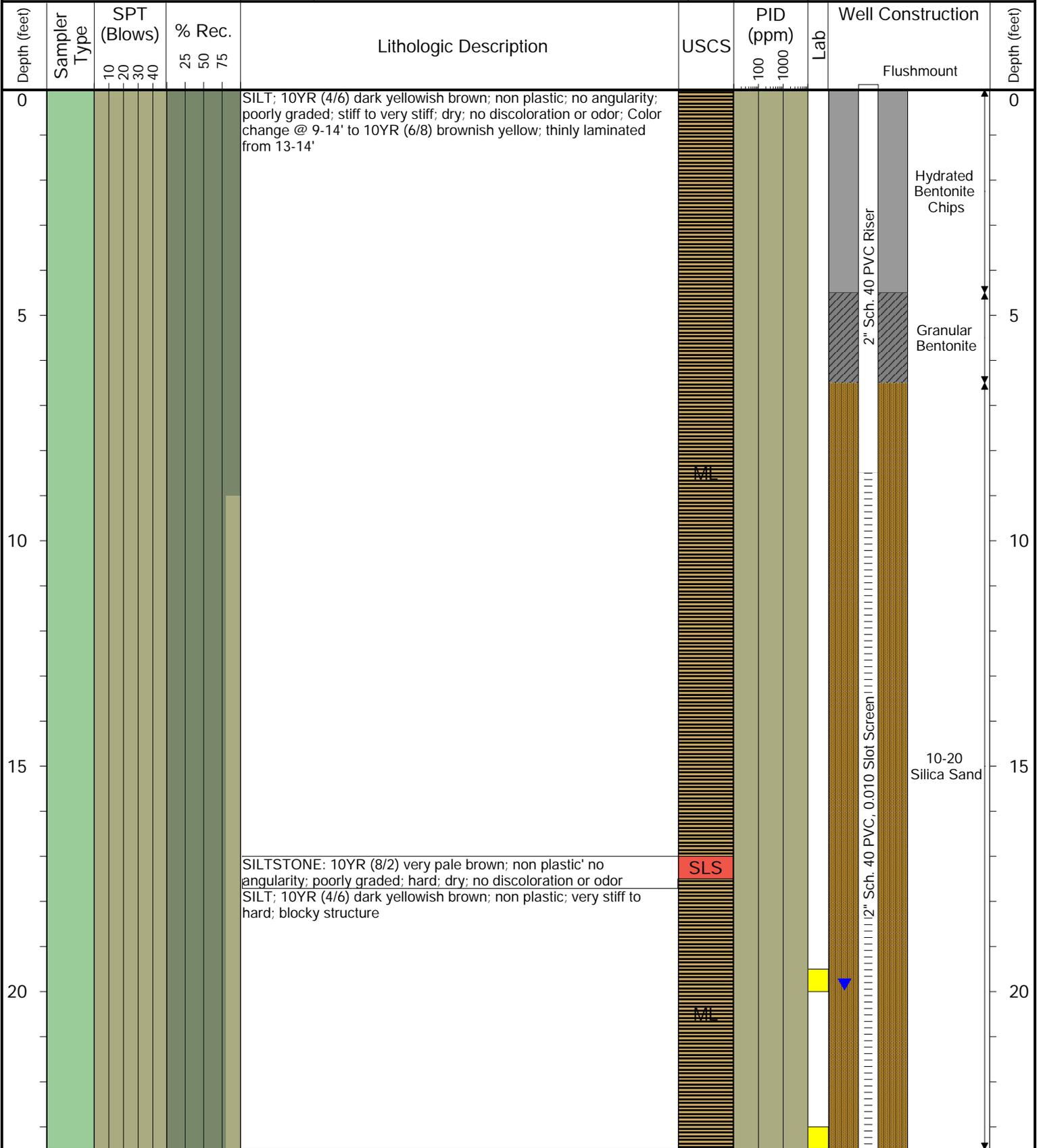
LOCATION: Weld County

LATITUDE: 40.292487572

LONGITUDE: -104.942353049

CASING ELEVATION (FT. AMSL): 4994.04

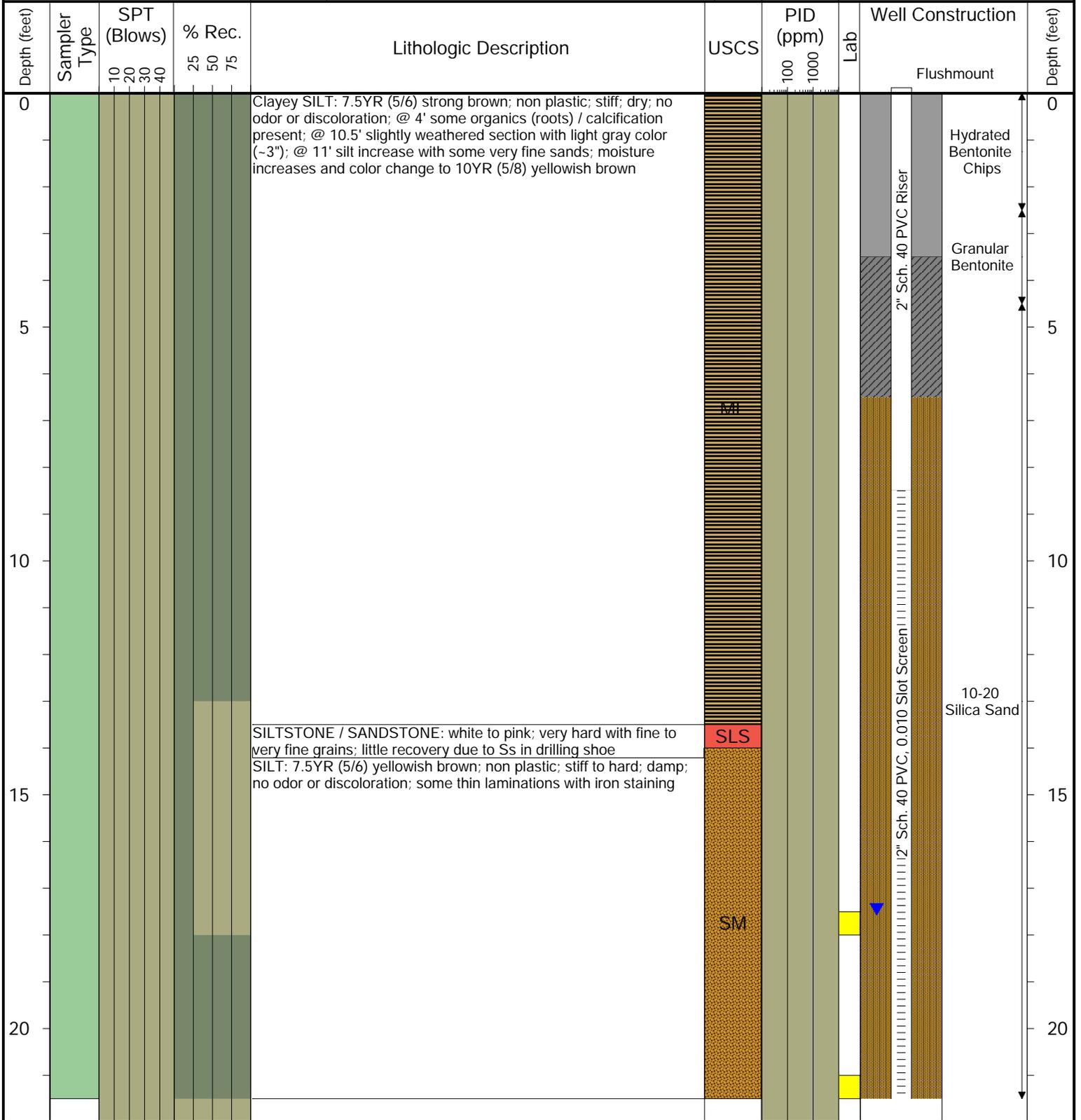
GROUND ELEVATION (FT. AMSL): 4992.45





6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	CR42 and CR13
LOGGED BY: J. Watts	
PROJECT MANAGER: B. Humphrey	BORING / WELL ID: BH42 / MW30
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 75	LOCATION: Weld County
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.292229874
DATE STARTED - COMPLETED: 9/11/19 - 9/11/19	LONGITUDE: -104.942372209
TOTAL WELL DEPTH (FT. BGS): 21.5	CASING ELEVATION (FT. AMSL): 4994.15
DEPTH TO WATER (FT. BGS): 17.45 ▼	GROUND ELEVATION (FT. AMSL): 4993.21

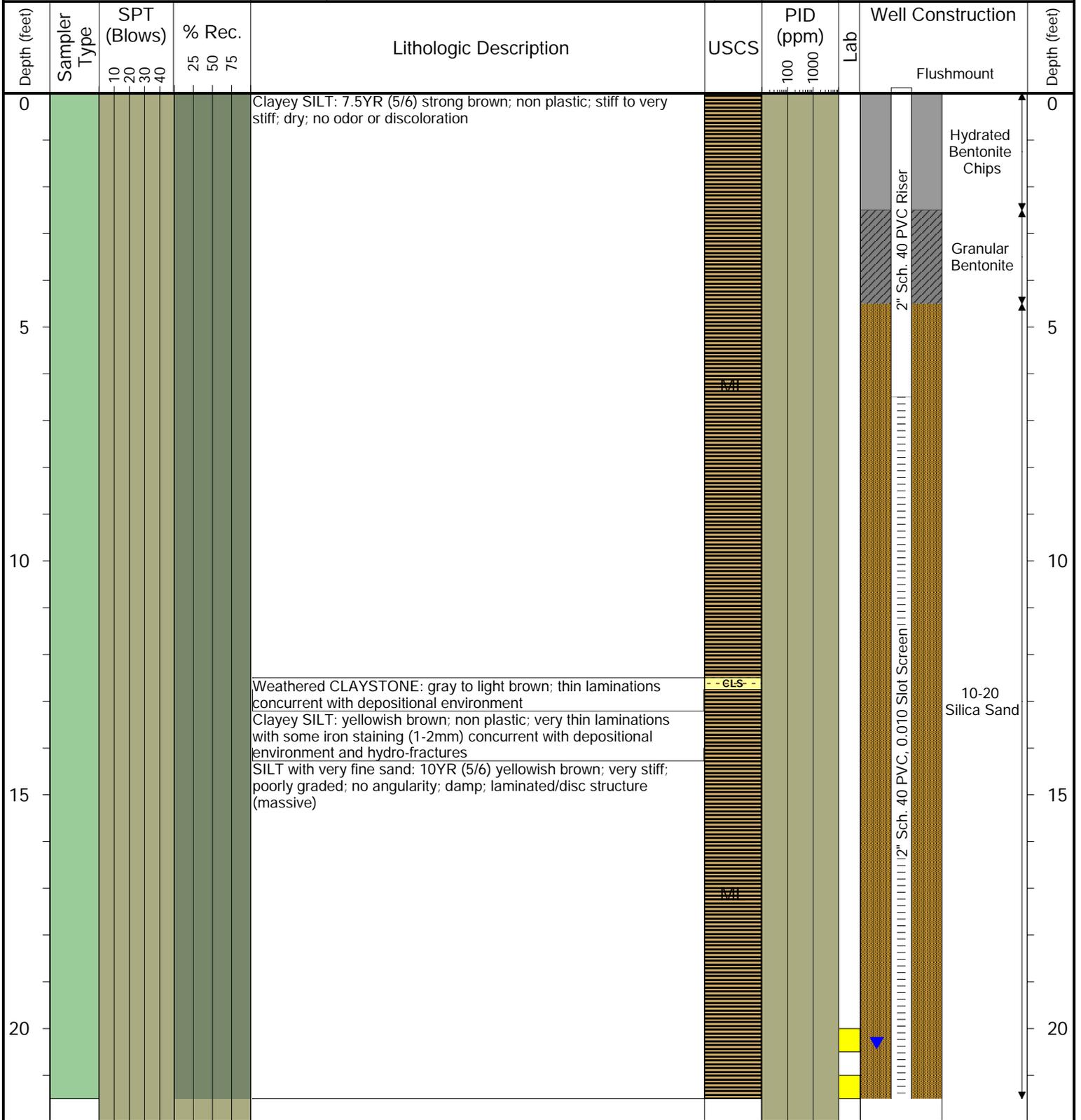


<b>Drilling / Sample Method:</b> Solid Stem Auger Hollow Stem Auger Split Spoon Sampler CME Continuous Sample Tube	<b>Laboratory Sample Types:</b> Geotechnical Lab Analytical Chemistry Lab Geotechnical & Analytical Chemistry Lab
--	--



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	<b>CR42 and CR13</b>
LOGGED BY: J. Watts	
PROJECT MANAGER: B. Humphrey	<b>BORING / WELL ID: BH43 / MW31</b>
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 75	LOCATION: Weld County
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.293120843
DATE STARTED - COMPLETED: 9/11/19 - 9/11/19	LONGITUDE: -104.94192426
TOTAL WELL DEPTH (FT. BGS): 21.5	CASING ELEVATION (FT. AMSL): 4991.99
DEPTH TO WATER (FT. BGS): 20.31	GROUND ELEVATION (FT. AMSL): 4990.56



**Drilling / Sample Method:**

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

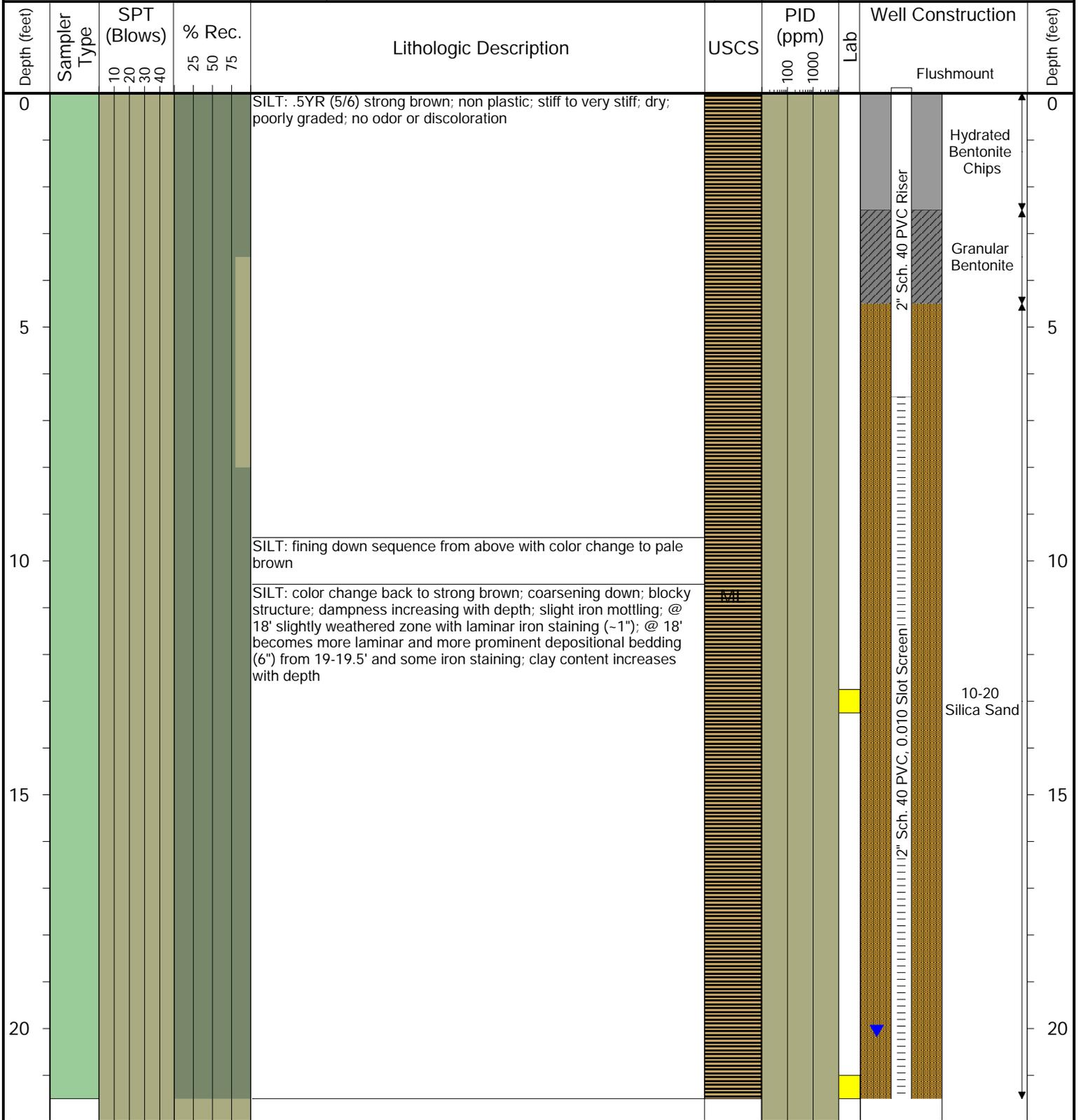
**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C  
Denver, Colorado 80221

CLIENT: DCP Midstream	CR42 and CR13
LOGGED BY: B. Gabel	
PROJECT MANAGER: B. Humphrey	BORING / WELL ID: BH44 / MW32
DRILLING CONTRACTOR: Site Services Drilling	
DRILLING EQUIPMENT: CME 75	LOCATION: Weld County
DRILL BIT SIZE (INCHES): 8.25	LATITUDE: 40.293052519
DATE STARTED - COMPLETED: 9/11/19 - 9/11/19	LONGITUDE: -104.942125386
TOTAL WELL DEPTH (FT. BGS): 21.5	CASING ELEVATION (FT. AMSL): 4993.22
DEPTH TO WATER (FT. BGS): 20.05 ▼	GROUND ELEVATION (FT. AMSL): 4990.82



**Drilling / Sample Method:**

- Solid Stem Auger
- Split Spoon Sampler
- Hollow Stem Auger
- CME Continuous Sample Tube

**Laboratory Sample Types:**

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab

## Appendix B

### Soil Boring Soil Sample Laboratory Analytical Reports

- Origins Laboratory Job #: Y906264
- Origins Laboratory Job #: Y906364
- Origins Laboratory Job #: Y907176
- Origins Laboratory Job #: Y907200
- Origins Laboratory Job #: Y907403
- Origins Laboratory Job #: Y909123
- Origins Laboratory Job #: Y909149



June 20, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. June 13, 2019. This project is associated with Origins project number Y906264-01.

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW16 (15.5-16')	Y906264-01	Soil	June 13, 2019 9:00	06/13/2019 17:20
MW16 (19.5-20')	Y906264-02	Soil	June 13, 2019 9:10	06/13/2019 17:20
MW17 (6-7')	Y906264-03	Soil	June 13, 2019 13:20	06/13/2019 17:20
MW17 (15.5-16')	Y906264-04	Soil	June 13, 2019 13:25	06/13/2019 17:20
MW17 (17.5-18')	Y906264-05	Soil	June 13, 2019 13:30	06/13/2019 17:20
MW18 (7-8')	Y906264-06	Soil	June 13, 2019 15:00	06/13/2019 17:20
MW18 (17-18')	Y906264-07	Soil	June 13, 2019 15:05	06/13/2019 17:20

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

www.originslaboratory.com

page 1 of 1



1900264

Client: TASMAN/DCP  
 Address: 6899 Pecos St  
Denver, CO 80221  
 Telephone Number: 303-520-0298  
 Email Address: Bhumphrey@tasman-geo.com

Project Manager: B. HUMPHREY  
 Project Name: DCP - CR42 / CR13  
 Project Number:   
 Samples Collected By: J. WHITS

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	Regrd TLC vol +	Regrd TICS	Regrd H2O	
MW16 (15.5-16')	6/13/19	0900	1	X				X				X	X	X	1
MW16 (19.5-20')	6/13/19	0910	1	X				X				X	X	X	2
MW17 (6-7')	6/13/19	1320	1	X				X				X	X	X	3
MW17 (15.5-16')	6/13/19	1515	1	X				X				X	X	X	4
MW17 (17.5-18')	6/13/19	1530	1	X				X				X	X	X	5
MW18 (7-8')	6/13/19	1500	1	X				X				X	X	X	6
MW18 (17-18')	6/13/19	1505	1	X				X				X	X	X	7
															8
															9
															10
Relinquished By: <u>[Signature]</u>	Date: <u>6/13/19</u>	Time: <u>0530</u>	Time: <u>0530</u>	Received By: <u>[Signature]</u>	Date: <u>6/13/19</u>	Time: <u>1700</u>	Time: <u>1700</u>	Received By: <u>[Signature]</u>	Date: <u>6/13/19</u>	Time: <u>1700</u>	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr	Standard <input checked="" type="checkbox"/>			

Date Results Needed

5/4

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y906264

Client: Tasman

Client Project ID: DCP 42 + 13

Checklist Completed by: JG

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

Date/time completed: 6/14/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.6 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

[Signature]  
 Reviewed by (Project Manager)

6/17/19  
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 (15.5-16')**  
**6/13/2019 9:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F1704	KDK	06/17/2019	06/18/2019	U
Surrogate: o-Terphenyl	76.9 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 (15.5-16')**  
**6/13/2019 9:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-01 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 (15.5-16')**  
**6/13/2019 9:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-01 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 (15.5-16')**  
**6/13/2019 9:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-01 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 (19.5-20')**  
**6/13/2019 9:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F1704	KDK	06/17/2019	06/18/2019	U
Surrogate: o-Terphenyl	72.3 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 (19.5-20')**  
**6/13/2019 9:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-02 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 (19.5-20')**  
**6/13/2019 9:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-02 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 (19.5-20')**  
**6/13/2019 9:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-02 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (6-7')**  
**6/13/2019 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-03 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F1704	KDK	06/17/2019	06/18/2019	U
Surrogate: o-Terphenyl	74.7 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (6-7')**  
**6/13/2019 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-03 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (6-7')**  
**6/13/2019 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-03 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (6-7')**  
**6/13/2019 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-03 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.7 %	70-130			"	"	"	"	

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (15.5-16')**  
**6/13/2019 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-04 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F1704	KDK	06/17/2019	06/18/2019	U
Surrogate: o-Terphenyl	78.5 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (15.5-16')**  
**6/13/2019 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-04 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (15.5-16')**  
**6/13/2019 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-04 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (15.5-16')**  
**6/13/2019 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-04 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (17.5-18')**  
**6/13/2019 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-05 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F1704	KDK	06/17/2019	06/18/2019	U
Surrogate: o-Terphenyl	81.9 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/14/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	06/17/2019	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (17.5-18')**  
**6/13/2019 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-05 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (17.5-18')**  
**6/13/2019 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-05 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 (17.5-18')**  
**6/13/2019 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-05 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"	"
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 (7-8')**  
**6/13/2019 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-06 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F1704	KDK	06/17/2019	06/18/2019	U
Surrogate: o-Terphenyl	80.1 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/15/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 (7-8')**  
**6/13/2019 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-06 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/15/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 (7-8')**  
**6/13/2019 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-06 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1411	KDK	06/14/2019	06/15/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 (7-8')**  
**6/13/2019 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-06 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/15/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	87.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	"	

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 (17-18')**  
**6/13/2019 3:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-07 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F1704	KDK	06/17/2019	06/18/2019	U
Surrogate: o-Terphenyl	81.0 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 (17-18')**  
**6/13/2019 3:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-07 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 (17-18')**  
**6/13/2019 3:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-07 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 (17-18')**  
**6/13/2019 3:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906264-07 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1411	KDK	06/14/2019	06/17/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"	"
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

**Blank (B9F1411-BLK1)**

Prepared: 06/14/2019 Analyzed: 06/14/2019

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg							U
1,1,1-Trichloroethane	ND	0.00200	"							U
1,1,2,2-Tetrachloroethane	ND	0.00200	"							U
1,1,2-Trichloroethane	ND	0.00200	"							U
1,1-Dichloroethane	ND	0.00200	"							U
1,1-Dichloroethene	ND	0.00200	"							U
1,1-Dichloropropene	ND	0.00200	"							U
1,2,3-Trichlorobenzene	ND	0.00500	"							U
1,2,3-Trichloropropane	ND	0.00500	"							U
1,2,4-Trichlorobenzene	ND	0.00500	"							U
1,2,4-Trimethylbenzene	ND	0.00200	"							U
1,2-Dibromo-3-chloropropane	ND	0.00500	"							U
1,2-Dibromoethane (EDB)	ND	0.00200	"							U
1,2-Dichlorobenzene	ND	0.00200	"							U
1,2-Dichloroethane	ND	0.00200	"							U
1,2-Dichloropropane	ND	0.00200	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
1,3-Dichlorobenzene	ND	0.00200	"							U
1,3-Dichloropropane	ND	0.00200	"							U
1,4-Dichlorobenzene	ND	0.00200	"							U
2,2-Dichloropropane	ND	0.00200	"							U
2-Butanone	ND	0.0100	"							U
2-Chlorotoluene	ND	0.00200	"							U
2-Hexanone	ND	0.0100	"							U
4-Chlorotoluene	ND	0.00200	"							U
4-Isopropyltoluene	ND	0.00200	"							U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

**Blank (B9F1411-BLK1)**

Prepared: 06/14/2019 Analyzed: 06/14/2019

4-Methyl-2-pentanone	ND	0.0100	mg/kg							U
Acetone	ND	0.0200	"							U
Benzene	ND	0.00200	"							U
Bromobenzene	ND	0.00200	"							U
Bromochloromethane	ND	0.00200	"							U
Bromodichloromethane	ND	0.00200	"							U
Bromoform	ND	0.00200	"							U
Bromomethane	ND	0.00200	"							U
Carbon disulfide	ND	0.00500	"							U
Carbon tetrachloride	ND	0.00200	"							U
Chlorobenzene	ND	0.00200	"							U
Chloroethane	ND	0.00500	"							U
Chloroform	ND	0.00200	"							U
Chloromethane	ND	0.00200	"							U
cis-1,2-Dichloroethene	ND	0.00200	"							U
cis-1,3-Dichloropropene	ND	0.00200	"							U
Dibromochloromethane	ND	0.00200	"							U
Dibromomethane	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Hexachlorobutadiene	ND	0.00500	"							U
Iodomethane	ND	0.0150	"							U
Isopropylbenzene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
Methyl tert-Butyl Ether	ND	0.00200	"							U
Methylene Chloride	ND	0.0200	"							U
Naphthalene	ND	0.0100	"							U

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

**Blank (B9F1411-BLK1)**

Prepared: 06/14/2019 Analyzed: 06/14/2019

n-Butylbenzene	ND	0.00200	mg/kg							U
n-Propylbenzene	ND	0.00200	"							U
o-Xylene	ND	0.00200	"							U
sec-Butylbenzene	ND	0.00200	"							U
Styrene	ND	0.00200	"							U
tert-Butylbenzene	ND	0.00200	"							U
Tetrachloroethene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
trans-1,2-Dichloroethene	ND	0.00200	"							U
trans-1,3-Dichloropropene	ND	0.00200	"							U
Trichloroethene	ND	0.00200	"							U
Trichlorofluoromethane	ND	0.00300	"							U
Vinyl chloride	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	114		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

**LCS (B9F1411-BS1)**

Prepared: 06/14/2019 Analyzed: 06/14/2019

1,1,1,2-Tetrachloroethane	0.110	0.00200	mg/kg	0.100		110	70-130			
1,1,1-Trichloroethane	0.110	0.00200	"	0.100		110	70-130			
1,1,2,2-Tetrachloroethane	0.110	0.00200	"	0.100		110	70-130			
1,1,2-Trichloroethane	0.103	0.00200	"	0.100		103	70-130			
1,1-Dichloroethane	0.108	0.00200	"	0.100		108	70-130			
1,1-Dichloroethene	0.108	0.00200	"	0.100		108	70-130			
1,1-Dichloropropene	0.110	0.00200	"	0.100		110	70-130			
1,2,3-Trichlorobenzene	0.102	0.00500	"	0.100		102	70-130			
1,2,3-Trichloropropane	0.113	0.00500	"	0.100		113	70-130			
1,2,4-Trichlorobenzene	0.101	0.00500	"	0.100		101	70-130			
1,2,4-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
1,2-Dibromo-3-chloropropane	0.103	0.00500	"	0.100		103	70-130			
1,2-Dibromoethane (EDB)	0.103	0.00200	"	0.100		103	70-130			
1,2-Dichlorobenzene	0.107	0.00200	"	0.100		107	70-130			
1,2-Dichloroethane	0.106	0.00200	"	0.100		106	70-130			
1,2-Dichloropropane	0.106	0.00200	"	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
1,3-Dichlorobenzene	0.102	0.00200	"	0.100		102	70-130			
1,3-Dichloropropane	0.105	0.00200	"	0.100		105	70-130			
1,4-Dichlorobenzene	0.102	0.00200	"	0.100		102	70-130			
2,2-Dichloropropane	0.109	0.00200	"	0.100		109	70-130			
2-Butanone	0.551	0.0100	"	0.500		110	70-130			
2-Chlorotoluene	0.112	0.00200	"	0.100		112	70-130			
2-Hexanone	0.527	0.0100	"	0.500		105	70-130			
4-Chlorotoluene	0.108	0.00200	"	0.100		108	70-130			
4-Isopropyltoluene	0.105	0.00200	"	0.100		105	70-130			

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Brian Humphrey  
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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

**LCS (B9F1411-BS1)**

Prepared: 06/14/2019 Analyzed: 06/14/2019

4-Methyl-2-pentanone	0.522	0.0100	mg/kg	0.500		104	70-130			
Acetone	0.534	0.0200	"	0.500		107	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Bromobenzene	0.107	0.00200	"	0.100		107	70-130			
Bromochloromethane	0.105	0.00200	"	0.100		105	70-130			
Bromodichloromethane	0.112	0.00200	"	0.100		112	70-130			
Bromoform	0.108	0.00200	"	0.100		108	70-130			
Bromomethane	0.105	0.00200	"	0.100		105	70-130			
Carbon disulfide	0.118	0.00500	"	0.100		118	70-130			
Carbon tetrachloride	0.110	0.00200	"	0.100		110	70-130			
Chlorobenzene	0.0999	0.00200	"	0.100		99.9	70-130			
Chloroethane	0.0949	0.00500	"	0.100		94.9	70-130			
Chloroform	0.109	0.00200	"	0.100		109	70-130			
Chloromethane	0.0964	0.00200	"	0.100		96.4	70-130			
cis-1,2-Dichloroethene	0.108	0.00200	"	0.100		108	70-130			
cis-1,3-Dichloropropene	0.105	0.00200	"	0.100		105	70-130			
Dibromochloromethane	0.108	0.00200	"	0.100		108	70-130			
Dibromomethane	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Hexachlorobutadiene	0.107	0.00500	"	0.100		107	70-130			
Iodomethane	0.104	0.0150	"	0.100		104	70-130			
Isopropylbenzene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.229	0.00400	"	0.200		115	70-130			
Methyl tert-Butyl Ether	0.106	0.00200	"	0.100		106	70-130			
Methylene Chloride	0.0987	0.0200	"	0.100		98.7	70-130			
Naphthalene	0.103	0.0100	"	0.100		103	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

**LCS (B9F1411-BS1)**

Prepared: 06/14/2019 Analyzed: 06/14/2019

n-Butylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
n-Propylbenzene	0.111	0.00200	"	0.100		111	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
sec-Butylbenzene	0.106	0.00200	"	0.100		106	70-130			
Styrene	0.106	0.00200	"	0.100		106	70-130			
tert-Butylbenzene	0.107	0.00200	"	0.100		107	70-130			
Tetrachloroethene	0.101	0.00200	"	0.100		101	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
trans-1,2-Dichloroethene	0.109	0.00200	"	0.100		109	70-130			
trans-1,3-Dichloropropene	0.107	0.00200	"	0.100		107	70-130			
Trichloroethene	0.107	0.00200	"	0.100		107	70-130			
Trichlorofluoromethane	0.107	0.00300	"	0.100		107	70-130			
Vinyl chloride	0.0973	0.00200	"	0.100		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

<b>Matrix Spike (B9F1411-MS1)</b>	<b>Source: Y906229-04</b>			<b>Prepared: 06/14/2019 Analyzed: 06/14/2019</b>						
1,1,1,2-Tetrachloroethane	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,1,1-Trichloroethane	0.107	0.00200	"	0.100	ND	107	70-130			
1,1,2,2-Tetrachloroethane	0.0669	0.00200	"	0.100	ND	66.9	70-130			QM-07
1,1,2-Trichloroethane	0.0651	0.00200	"	0.100	ND	65.1	70-130			QM-07
1,1-Dichloroethane	0.0971	0.00200	"	0.100	ND	97.1	70-130			
1,1-Dichloroethene	0.110	0.00200	"	0.100	ND	110	70-130			
1,1-Dichloropropene	0.103	0.00200	"	0.100	ND	103	70-130			
1,2,3-Trichlorobenzene	0.0219	0.00500	"	0.100	0.00110	20.8	70-130			QM-07
1,2,3-Trichloropropane	0.0695	0.00500	"	0.100	ND	69.5	70-130			QM-07
1,2,4-Trichlorobenzene	0.0274	0.00500	"	0.100	0.000760	26.6	70-130			QM-07
1,2,4-Trimethylbenzene	0.0832	0.00200	"	0.100	ND	83.2	70-130			
1,2-Dibromo-3-chloropropane	0.0413	0.00500	"	0.100	ND	41.3	70-130			QM-07
1,2-Dibromoethane (EDB)	0.0602	0.00200	"	0.100	ND	60.2	70-130			QM-07
1,2-Dichlorobenzene	0.0617	0.00200	"	0.100	ND	61.7	70-130			QM-07
1,2-Dichloroethane	0.0642	0.00200	"	0.100	ND	64.2	70-130			QM-07
1,2-Dichloropropane	0.0798	0.00200	"	0.100	ND	79.8	70-130			
1,3,5-Trimethylbenzene	0.0906	0.00200	"	0.100	ND	90.6	70-130			
1,3-Dichlorobenzene	0.0676	0.00200	"	0.100	0.000360	67.2	70-130			QM-07
1,3-Dichloropropane	0.0660	0.00200	"	0.100	ND	66.0	70-130			QM-07
1,4-Dichlorobenzene	0.0659	0.00200	"	0.100	0.000460	65.4	70-130			QM-07
2,2-Dichloropropane	0.115	0.00200	"	0.100	ND	115	70-130			
2-Butanone	0.244	0.0100	"	0.500	0.00950	46.9	70-130			QM-07
2-Chlorotoluene	0.0903	0.00200	"	0.100	ND	90.3	70-130			
2-Hexanone	0.241	0.0100	"	0.500	ND	48.1	70-130			QM-07
4-Chlorotoluene	0.0895	0.00200	"	0.100	ND	89.5	70-130			
4-Isopropyltoluene	0.0708	0.00200	"	0.100	0.000280	70.5	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

<b>Matrix Spike (B9F1411-MS1)</b>	<b>Source: Y906229-04</b>			<b>Prepared: 06/14/2019 Analyzed: 06/14/2019</b>						
4-Methyl-2-pentanone	0.260	0.0100	mg/kg	0.500	ND	52.0	70-130			QM-07
Acetone	0.271	0.0200	"	0.500	0.0520	43.8	70-130			QM-07
Benzene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
Bromobenzene	0.0831	0.00200	"	0.100	ND	83.1	70-130			
Bromochloromethane	0.0682	0.00200	"	0.100	ND	68.2	70-130			QM-07
Bromodichloromethane	0.0776	0.00200	"	0.100	ND	77.6	70-130			
Bromoform	0.0618	0.00200	"	0.100	ND	61.8	70-130			QM-07
Bromomethane	0.0962	0.00200	"	0.100	ND	96.2	70-130			
Carbon disulfide	0.155	0.00500	"	0.100	ND	155	70-130			QM-07
Carbon tetrachloride	0.105	0.00200	"	0.100	ND	105	70-130			
Chlorobenzene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
Chloroethane	0.117	0.00500	"	0.100	ND	117	70-130			
Chloroform	0.0901	0.00200	"	0.100	ND	90.1	70-130			
Chloromethane	0.0872	0.00200	"	0.100	ND	87.2	70-130			
cis-1,2-Dichloroethene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
cis-1,3-Dichloropropene	0.0776	0.00200	"	0.100	ND	77.6	70-130			
Dibromochloromethane	0.0671	0.00200	"	0.100	ND	67.1	70-130			QM-07
Dibromomethane	0.0607	0.00200	"	0.100	ND	60.7	70-130			QM-07
Ethylbenzene	0.122	0.00200	"	0.100	ND	122	70-130			
Hexachlorobutadiene	0.0215	0.00500	"	0.100	ND	21.5	70-130			QM-07
Iodomethane	0.0942	0.0150	"	0.100	ND	94.2	70-130			
Isopropylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.243	0.00400	"	0.200	ND	121	70-130			
Methyl tert-Butyl Ether	0.0647	0.00200	"	0.100	ND	64.7	70-130			QM-07
Methylene Chloride	0.0677	0.0200	"	0.100	ND	67.7	70-130			QM-07
Naphthalene	0.0251	0.0100	"	0.100	0.00148	23.6	70-130			QM-07

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

<b>Matrix Spike (B9F1411-MS1)</b>	<b>Source: Y906229-04</b>			<b>Prepared: 06/14/2019 Analyzed: 06/14/2019</b>						
n-Butylbenzene	0.0589	0.00200	mg/kg	0.100	ND	58.9	70-130			QM-07
n-Propylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
sec-Butylbenzene	0.0736	0.00200	"	0.100	ND	73.6	70-130			
Styrene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
tert-Butylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
Tetrachloroethene	0.0929	0.00200	"	0.100	ND	92.9	70-130			
Toluene	0.0960	0.00200	"	0.100	ND	96.0	70-130			
trans-1,2-Dichloroethene	0.103	0.00200	"	0.100	ND	103	70-130			
trans-1,3-Dichloropropene	0.0688	0.00200	"	0.100	ND	68.8	70-130			QM-07
Trichloroethene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
Trichlorofluoromethane	0.101	0.00300	"	0.100	ND	101	70-130			
Vinyl chloride	0.0951	0.00200	"	0.100	ND	95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.094		"	0.125		75.6	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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Brian Humphrey  
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 Project: DCP - CR42 & CR13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F1411 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B9F1411-MSD1)</b>			<b>Source: Y906229-04</b>			Prepared: 06/14/2019 Analyzed: 06/14/2019				
1,1,1,2-Tetrachloroethane	0.0941	0.00200	mg/kg	0.100	ND	94.1	70-130	9.30	20	
1,1,1-Trichloroethane	0.0952	0.00200	"	0.100	ND	95.2	70-130	11.4	20	
1,1,2,2-Tetrachloroethane	0.0951	0.00200	"	0.100	ND	95.1	70-130	34.8	20	QR-03
1,1,2-Trichloroethane	0.0932	0.00200	"	0.100	ND	93.2	70-130	35.5	20	QR-03
1,1-Dichloroethane	0.0943	0.00200	"	0.100	ND	94.3	70-130	2.95	20	
1,1-Dichloroethene	0.0922	0.00200	"	0.100	ND	92.2	70-130	18.0	20	
1,1-Dichloropropene	0.0915	0.00200	"	0.100	ND	91.5	70-130	11.4	20	
1,2,3-Trichlorobenzene	0.0612	0.00500	"	0.100	0.00110	60.1	70-130	94.5	20	QM-07, QR-03
1,2,3-Trichloropropane	0.0969	0.00500	"	0.100	ND	96.9	70-130	32.9	20	QR-03
1,2,4-Trichlorobenzene	0.0597	0.00500	"	0.100	0.000760	59.0	70-130	74.3	20	QM-07, QR-03
1,2,4-Trimethylbenzene	0.0790	0.00200	"	0.100	ND	79.0	70-130	5.18	20	
1,2-Dibromo-3-chloropropane	0.0916	0.00500	"	0.100	ND	91.6	70-130	75.6	20	QR-03
1,2-Dibromoethane (EDB)	0.0926	0.00200	"	0.100	ND	92.6	70-130	42.3	20	QR-03
1,2-Dichlorobenzene	0.0796	0.00200	"	0.100	ND	79.6	70-130	25.4	20	QR-03
1,2-Dichloroethane	0.0956	0.00200	"	0.100	ND	95.6	70-130	39.3	20	QR-03
1,2-Dichloropropane	0.0954	0.00200	"	0.100	ND	95.4	70-130	17.8	20	
1,3,5-Trimethylbenzene	0.0803	0.00200	"	0.100	ND	80.3	70-130	12.1	20	
1,3-Dichlorobenzene	0.0746	0.00200	"	0.100	0.000360	74.3	70-130	9.93	20	
1,3-Dichloropropane	0.0930	0.00200	"	0.100	ND	93.0	70-130	33.9	20	QR-03
1,4-Dichlorobenzene	0.0759	0.00200	"	0.100	0.000460	75.4	70-130	14.1	20	
2,2-Dichloropropane	0.0973	0.00200	"	0.100	ND	97.3	70-130	16.3	20	
2-Butanone	0.533	0.0100	"	0.500	0.00950	105	70-130	74.5	20	QR-03
2-Chlorotoluene	0.0829	0.00200	"	0.100	ND	82.9	70-130	8.64	20	
2-Hexanone	0.497	0.0100	"	0.500	ND	99.4	70-130	69.5	20	QR-03
4-Chlorotoluene	0.0819	0.00200	"	0.100	ND	81.9	70-130	8.91	20	

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9F1411-MSD1)</b>	<b>Source: Y906229-04</b>			<b>Prepared: 06/14/2019 Analyzed: 06/14/2019</b>						
4-Isopropyltoluene	0.0710	0.00200	mg/kg	0.100	0.000280	70.8	70-130	0.367	20	
4-Methyl-2-pentanone	0.488	0.0100	"	0.500	ND	97.5	70-130	60.9	20	QR-03
Acetone	0.508	0.0200	"	0.500	0.0520	91.1	70-130	60.8	20	QR-03
Benzene	0.0934	0.00200	"	0.100	ND	93.4	70-130	0.300	20	
Bromobenzene	0.0858	0.00200	"	0.100	ND	85.8	70-130	3.27	20	
Bromochloromethane	0.0956	0.00200	"	0.100	ND	95.6	70-130	33.5	20	QR-03
Bromodichloromethane	0.101	0.00200	"	0.100	ND	101	70-130	25.8	20	QR-03
Bromoform	0.0935	0.00200	"	0.100	ND	93.5	70-130	40.9	20	QR-03
Bromomethane	0.0869	0.00200	"	0.100	ND	86.9	70-130	10.1	20	
Carbon disulfide	0.132	0.00500	"	0.100	ND	132	70-130	16.2	20	QR-03
Carbon tetrachloride	0.0928	0.00200	"	0.100	ND	92.8	70-130	12.1	20	
Chlorobenzene	0.0831	0.00200	"	0.100	ND	83.1	70-130	1.72	20	
Chloroethane	0.0838	0.00500	"	0.100	ND	83.8	70-130	33.3	20	QR-03
Chloroform	0.0971	0.00200	"	0.100	ND	97.1	70-130	7.52	20	
Chloromethane	0.0788	0.00200	"	0.100	ND	78.8	70-130	10.1	20	
cis-1,2-Dichloroethene	0.0946	0.00200	"	0.100	ND	94.6	70-130	1.62	20	
cis-1,3-Dichloropropene	0.0928	0.00200	"	0.100	ND	92.8	70-130	17.8	20	
Dibromochloromethane	0.0965	0.00200	"	0.100	ND	96.5	70-130	35.9	20	QR-03
Dibromomethane	0.0962	0.00200	"	0.100	ND	96.2	70-130	45.2	20	QR-03
Ethylbenzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	32.3	20	QR-03
Hexachlorobutadiene	0.0397	0.00500	"	0.100	ND	39.7	70-130	59.4	20	QM-07, QR-03
Iodomethane	0.0907	0.0150	"	0.100	ND	90.7	70-130	3.79	20	
Isopropylbenzene	0.0821	0.00200	"	0.100	ND	82.1	70-130	23.3	20	QR-03
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.4	70-130	30.4	20	QR-03
Methyl tert-Butyl Ether	0.0959	0.00200	"	0.100	ND	95.9	70-130	38.9	20	QR-03
Methylene Chloride	0.0877	0.0200	"	0.100	ND	87.7	70-130	25.7	20	QR-03

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1411 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9F1411-MSD1)</b>		<b>Source: Y906229-04</b>			<b>Prepared: 06/14/2019 Analyzed: 06/14/2019</b>					
Naphthalene	0.0740	0.0100	mg/kg	0.100	0.00148	72.6	70-130	98.7	20	QR-03
n-Butylbenzene	0.0646	0.00200	"	0.100	ND	64.6	70-130	9.27	20	QM-07, QR-03
n-Propylbenzene	0.0796	0.00200	"	0.100	ND	79.6	70-130	19.7	20	
o-Xylene	0.0892	0.00200	"	0.100	ND	89.2	70-130	20.3	20	QR-03
sec-Butylbenzene	0.0707	0.00200	"	0.100	ND	70.7	70-130	3.99	20	
Styrene	0.0856	0.00200	"	0.100	ND	85.6	70-130	7.36	20	
tert-Butylbenzene	0.0762	0.00200	"	0.100	ND	76.2	70-130	9.27	20	
Tetrachloroethene	0.0805	0.00200	"	0.100	ND	80.5	70-130	14.2	20	
Toluene	0.0874	0.00200	"	0.100	ND	87.4	70-130	9.31	20	
trans-1,2-Dichloroethene	0.0926	0.00200	"	0.100	ND	92.6	70-130	10.5	20	
trans-1,3-Dichloropropene	0.0945	0.00200	"	0.100	ND	94.5	70-130	31.5	20	QR-03
Trichloroethene	0.0913	0.00200	"	0.100	ND	91.3	70-130	4.35	20	
Trichlorofluoromethane	0.0863	0.00300	"	0.100	ND	86.3	70-130	15.7	20	
Vinyl chloride	0.0807	0.00200	"	0.100	ND	80.7	70-130	16.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F1704 - EPA 3580</b>										
<b>Blank (B9F1704-BLK1)</b>										
					Prepared: 06/17/2019 Analyzed: 06/17/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	38		"	50.0		76.8	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F1704 - EPA 3580</b>										
<b>Blank (B9F1704-BLK2)</b>					Prepared: 06/17/2019 Analyzed: 06/17/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	43		"	50.0		85.6	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F1704 - EPA 3580**

**LCS (B9F1704-BS1)**

Prepared: 06/17/2019 Analyzed: 06/17/2019

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Surrogate: o-Terphenyl	43		"	50.0		86.6	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F1704 - EPA 3580**

**LCS (B9F1704-BS2)**

Prepared: 06/17/2019 Analyzed: 06/17/2019

Diesel (C10-C28)	975	50.0	mg/kg	1000		97.5	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.5	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F1704 - EPA 3580**

<b>Matrix Spike (B9F1704-MS1)</b>	<b>Source: Y906266-01</b>			Prepared: 06/17/2019 Analyzed: 06/17/2019						
Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	70-130			
Surrogate: <i>o</i> -Terphenyl	43		"	50.0		86.2	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F1704 - EPA 3580**

<b>Matrix Spike (B9F1704-MS2)</b>	<b>Source: Y906278-01</b>			<b>Prepared: 06/17/2019 Analyzed: 06/18/2019</b>						
Diesel (C10-C28)	969	50.0	mg/kg	1000	ND	96.9	70-130			
Surrogate: <i>o</i> -Terphenyl	43		"	50.0		86.3	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F1704 - EPA 3580**

<b>Matrix Spike Dup (B9F1704-MSD1)</b>	<b>Source: Y906266-01</b>			<b>Prepared: 06/17/2019 Analyzed: 06/17/2019</b>						
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130	1.41	35	
Surrogate: <i>o</i> -Terphenyl	42		"	50.0		83.1	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F1704 - EPA 3580**

<b>Matrix Spike Dup (B9F1704-MSD2)</b>	<b>Source: Y906278-01</b>			Prepared: 06/17/2019 Analyzed: 06/18/2019						
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	4.80	35	
Surrogate: o-Terphenyl	45		"	50.0		89.6	50-150			

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6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

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### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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---

Jen Pellegrini For Noelle Doyle Mathis, President



June 24, 2019

**Tasman Geosciences**

**Brian Humphrey**

**6899 Pecos Street, Unit C**

**Denver**

**CO 80211**

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. June 20, 2019. This project is associated with Origins project number Y906364-01.

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW19@6.5'	Y906364-01	Soil	June 20, 2019 9:55	06/20/2019 16:55
MW19@10.5'	Y906364-02	Soil	June 20, 2019 10:00	06/20/2019 16:55
MW19@18'	Y906364-03	Soil	June 20, 2019 10:10	06/20/2019 16:55
MW20@13.5'	Y906364-04	Soil	June 20, 2019 12:10	06/20/2019 16:55
MW20@14.5'	Y906364-05	Soil	June 20, 2019 12:00	06/20/2019 16:55
MW20@18'	Y906364-06	Soil	June 20, 2019 12:15	06/20/2019 16:55

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y906364

Client: Tasman  
 Client Project ID: CR42 / CR13

Checklist Completed by: JG  
 Date/time completed: 6/20 / 2019

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.0 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6/21/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@6.5'**  
**6/20/2019 9:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F2004	KDK	06/20/2019	06/21/2019	U
Surrogate: o-Terphenyl	77.2 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

MW19@6.5'  
 6/20/2019 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y906364-01 (Soil)

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@6.5'**  
**6/20/2019 9:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-01 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@6.5'**  
**6/20/2019 9:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-01 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@10.5'**  
**6/20/2019 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F2004	KDK	06/20/2019	06/21/2019	U
Surrogate: o-Terphenyl	79.2 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@10.5'**  
**6/20/2019 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-02 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@10.5'**  
**6/20/2019 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-02 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@10.5'**  
**6/20/2019 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-02 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	<b>0.435</b>	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@18'**  
**6/20/2019 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-03 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F2004	KDK	06/20/2019	06/21/2019	U
Surrogate: o-Terphenyl	55.7 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@18'**  
**6/20/2019 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-03 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@18'**  
**6/20/2019 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-03 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19@18'**  
**6/20/2019 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-03 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@13.5'**  
**6/20/2019 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-04 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F2004	KDK	06/20/2019	06/21/2019	U
Surrogate: o-Terphenyl	79.4 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	<b>0.182</b>	0.00200	"	"	"	KDK	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@13.5'**  
**6/20/2019 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-04 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
1,3,5-Trimethylbenzene	<b>0.0578</b>	0.00200	"	"	"	KDK	"	"	
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	<b>0.00612</b>	0.00200	"	"	"	KDK	"	"	
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	<b>0.902</b>	0.0500	"	25	"	KDK	"	06/21/2019	
Bromobenzene	ND	0.00200	"	1	"	KDK	"	06/20/2019	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Carbon disulfide	ND	0.00500	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@13.5'**  
**6/20/2019 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-04 (Soil)**

**VOC by EPA 8260D**

Carbon tetrachloride	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	<b>0.162</b>	0.00200	"	"	"	KDK	"	"	
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	<b>0.0195</b>	0.00200	"	"	"	KDK	"	"	
m,p-Xylene	<b>2.28</b>	0.100	"	25	"	KDK	"	06/21/2019	
Methyl tert-Butyl Ether	ND	0.00200	"	1	"	KDK	"	06/20/2019	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	<b>0.0176</b>	0.0100	"	"	"	KDK	"	"	
n-Butylbenzene	<b>0.0137</b>	0.00200	"	"	"	KDK	"	"	
n-Propylbenzene	<b>0.0349</b>	0.00200	"	"	"	KDK	"	"	
o-Xylene	<b>0.763</b>	0.0500	"	25	"	KDK	"	06/21/2019	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@13.5'**  
**6/20/2019 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-04 (Soil)**

**VOC by EPA 8260D**

sec-Butylbenzene	0.00886	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/20/2019	
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	3.10	0.0500	"	25	"	KDK	"	06/21/2019	
trans-1,2-Dichloroethene	ND	0.00200	"	1	"	KDK	"	06/20/2019	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	143	5.00	"	25	"	KDK	"	06/21/2019	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"		"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"		06/20/2019	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@14.5'**  
**6/20/2019 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-05 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F2004	KDK	06/20/2019	06/21/2019	U
Surrogate: o-Terphenyl	56.8 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@14.5'**  
**6/20/2019 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-05 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@14.5'**  
**6/20/2019 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-05 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@14.5'**

**6/20/2019 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-05 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@18'**

**6/20/2019 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-06 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9F2004	KDK	06/20/2019	06/21/2019	U
Surrogate: o-Terphenyl	55.6 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	<b>0.0174</b>	0.00200	"	"	"	KDK	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@18'**

**6/20/2019 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-06 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
1,3,5-Trimethylbenzene	<b>0.00500</b>	0.00200	"	"	"	KDK	"	"	
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	<b>0.353</b>	0.00200	"	"	"	KDK	"	"	
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Carbon disulfide	ND	0.00500	"	"	"	KDK	"	"	U

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@18'**  
**6/20/2019 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-06 (Soil)**

**VOC by EPA 8260D**

Carbon tetrachloride	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	<b>0.0244</b>	0.00200	"	"	"	KDK	"	"	
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	<b>0.123</b>	0.00400	"	"	"	KDK	"	"	
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
n-Propylbenzene	<b>0.00278</b>	0.00200	"	"	"	KDK	"	"	
o-Xylene	<b>0.0478</b>	0.00200	"	"	"	KDK	"	"	

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20@18'**  
**6/20/2019 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906364-06 (Soil)**

**VOC by EPA 8260D**

sec-Butylbenzene	ND	0.00200	mg/kg	1	B9F1810	KDK	06/20/2019	06/21/2019	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	<b>0.0815</b>	0.0500	"	25	"	JTD	"	06/21/2019	
trans-1,2-Dichloroethene	ND	0.00200	"	1	"	KDK	"	06/21/2019	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	<b>1.56</b>	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

**Blank (B9F1810-BLK1)**

Prepared: 06/18/2019 Analyzed: 06/20/2019

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg							U
1,1,1-Trichloroethane	ND	0.00200	"							U
1,1,2,2-Tetrachloroethane	ND	0.00200	"							U
1,1,2-Trichloroethane	ND	0.00200	"							U
1,1-Dichloroethane	ND	0.00200	"							U
1,1-Dichloroethene	ND	0.00200	"							U
1,1-Dichloropropene	ND	0.00200	"							U
1,2,3-Trichlorobenzene	ND	0.00500	"							U
1,2,3-Trichloropropane	ND	0.00500	"							U
1,2,4-Trichlorobenzene	ND	0.00500	"							U
1,2,4-Trimethylbenzene	ND	0.00200	"							U
1,2-Dibromo-3-chloropropane	ND	0.00500	"							U
1,2-Dibromoethane (EDB)	ND	0.00200	"							U
1,2-Dichlorobenzene	ND	0.00200	"							U
1,2-Dichloroethane	ND	0.00200	"							U
1,2-Dichloropropane	ND	0.00200	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
1,3-Dichlorobenzene	ND	0.00200	"							U
1,3-Dichloropropane	ND	0.00200	"							U
1,4-Dichlorobenzene	ND	0.00200	"							U
2,2-Dichloropropane	ND	0.00200	"							U
2-Butanone	ND	0.0100	"							U
2-Chlorotoluene	ND	0.00200	"							U
2-Hexanone	ND	0.0100	"							U
4-Chlorotoluene	ND	0.00200	"							U
4-Isopropyltoluene	ND	0.00200	"							U

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

**Blank (B9F1810-BLK1)**

Prepared: 06/18/2019 Analyzed: 06/20/2019

4-Methyl-2-pentanone	ND	0.0100	mg/kg							U
Acetone	ND	0.0200	"							U
Benzene	ND	0.00200	"							U
Bromobenzene	ND	0.00200	"							U
Bromochloromethane	ND	0.00200	"							U
Bromodichloromethane	ND	0.00200	"							U
Bromoform	ND	0.00200	"							U
Bromomethane	ND	0.00200	"							U
Carbon disulfide	ND	0.00500	"							U
Carbon tetrachloride	ND	0.00200	"							U
Chlorobenzene	ND	0.00200	"							U
Chloroethane	ND	0.00500	"							U
Chloroform	ND	0.00200	"							U
Chloromethane	ND	0.00200	"							U
cis-1,2-Dichloroethene	ND	0.00200	"							U
cis-1,3-Dichloropropene	ND	0.00200	"							U
Dibromochloromethane	ND	0.00200	"							U
Dibromomethane	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Hexachlorobutadiene	ND	0.00500	"							U
Iodomethane	ND	0.0150	"							U
Isopropylbenzene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
Methyl tert-Butyl Ether	ND	0.00200	"							U
Methylene Chloride	ND	0.0200	"							U
Naphthalene	ND	0.0100	"							U

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

**Blank (B9F1810-BLK1)**

Prepared: 06/18/2019 Analyzed: 06/20/2019

n-Butylbenzene	ND	0.00200	mg/kg							U
n-Propylbenzene	ND	0.00200	"							U
o-Xylene	ND	0.00200	"							U
sec-Butylbenzene	ND	0.00200	"							U
Styrene	ND	0.00200	"							U
tert-Butylbenzene	ND	0.00200	"							U
Tetrachloroethene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
trans-1,2-Dichloroethene	ND	0.00200	"							U
trans-1,3-Dichloropropene	ND	0.00200	"							U
Trichloroethene	ND	0.00200	"							U
Trichlorofluoromethane	ND	0.00300	"							U
Vinyl chloride	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

**LCS (B9F1810-BS1)**

Prepared: 06/18/2019 Analyzed: 06/20/2019

1,1,1,2-Tetrachloroethane	0.0959	0.00200	mg/kg	0.100		95.9	70-130			
1,1,1-Trichloroethane	0.0929	0.00200	"	0.100		92.9	70-130			
1,1,2,2-Tetrachloroethane	0.0978	0.00200	"	0.100		97.8	70-130			
1,1,2-Trichloroethane	0.0917	0.00200	"	0.100		91.7	70-130			
1,1-Dichloroethane	0.0913	0.00200	"	0.100		91.3	70-130			
1,1-Dichloroethene	0.0929	0.00200	"	0.100		92.9	70-130			
1,1-Dichloropropene	0.0953	0.00200	"	0.100		95.3	70-130			
1,2,3-Trichlorobenzene	0.104	0.00500	"	0.100		104	70-130			
1,2,3-Trichloropropane	0.0942	0.00500	"	0.100		94.2	70-130			
1,2,4-Trichlorobenzene	0.104	0.00500	"	0.100		104	70-130			
1,2,4-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
1,2-Dibromo-3-chloropropane	0.0949	0.00500	"	0.100		94.9	70-130			
1,2-Dibromoethane (EDB)	0.0972	0.00200	"	0.100		97.2	70-130			
1,2-Dichlorobenzene	0.0937	0.00200	"	0.100		93.7	70-130			
1,2-Dichloroethane	0.0919	0.00200	"	0.100		91.9	70-130			
1,2-Dichloropropane	0.0919	0.00200	"	0.100		91.9	70-130			
1,3,5-Trimethylbenzene	0.0999	0.00200	"	0.100		99.9	70-130			
1,3-Dichlorobenzene	0.0947	0.00200	"	0.100		94.7	70-130			
1,3-Dichloropropane	0.0926	0.00200	"	0.100		92.6	70-130			
1,4-Dichlorobenzene	0.0934	0.00200	"	0.100		93.4	70-130			
2,2-Dichloropropane	0.101	0.00200	"	0.100		101	70-130			
2-Butanone	0.471	0.0100	"	0.500		94.3	70-130			
2-Chlorotoluene	0.0945	0.00200	"	0.100		94.5	70-130			
2-Hexanone	0.481	0.0100	"	0.500		96.3	70-130			
4-Chlorotoluene	0.0961	0.00200	"	0.100		96.1	70-130			
4-Isopropyltoluene	0.101	0.00200	"	0.100		101	70-130			

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Brian Humphrey  
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 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

**LCS (B9F1810-BS1)**

Prepared: 06/18/2019 Analyzed: 06/20/2019

4-Methyl-2-pentanone	0.474	0.0100	mg/kg	0.500		94.7	70-130			
Acetone	0.488	0.0200	"	0.500		97.7	70-130			
Benzene	0.0921	0.00200	"	0.100		92.1	70-130			
Bromobenzene	0.0965	0.00200	"	0.100		96.5	70-130			
Bromochloromethane	0.0918	0.00200	"	0.100		91.8	70-130			
Bromodichloromethane	0.0883	0.00200	"	0.100		88.3	70-130			
Bromoform	0.0943	0.00200	"	0.100		94.3	70-130			
Bromomethane	0.101	0.00200	"	0.100		101	70-130			
Carbon disulfide	0.0945	0.00500	"	0.100		94.5	70-130			
Carbon tetrachloride	0.0910	0.00200	"	0.100		91.0	70-130			
Chlorobenzene	0.0919	0.00200	"	0.100		91.9	70-130			
Chloroethane	0.0987	0.00500	"	0.100		98.7	70-130			
Chloroform	0.0895	0.00200	"	0.100		89.5	70-130			
Chloromethane	0.0996	0.00200	"	0.100		99.6	70-130			
cis-1,2-Dichloroethene	0.0950	0.00200	"	0.100		95.0	70-130			
cis-1,3-Dichloropropene	0.0908	0.00200	"	0.100		90.8	70-130			
Dibromochloromethane	0.0926	0.00200	"	0.100		92.6	70-130			
Dibromomethane	0.0914	0.00200	"	0.100		91.4	70-130			
Ethylbenzene	0.0993	0.00200	"	0.100		99.3	70-130			
Hexachlorobutadiene	0.0934	0.00500	"	0.100		93.4	70-130			
Iodomethane	0.0825	0.0150	"	0.100		82.5	70-130			
Isopropylbenzene	0.0990	0.00200	"	0.100		99.0	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Methyl tert-Butyl Ether	0.0900	0.00200	"	0.100		90.0	70-130			
Methylene Chloride	0.0925	0.0200	"	0.100		92.5	70-130			
Naphthalene	0.102	0.0100	"	0.100		102	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

**LCS (B9F1810-BS1)**

Prepared: 06/18/2019 Analyzed: 06/20/2019

n-Butylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
n-Propylbenzene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
sec-Butylbenzene	0.0998	0.00200	"	0.100		99.8	70-130			
Styrene	0.103	0.00200	"	0.100		103	70-130			
tert-Butylbenzene	0.0992	0.00200	"	0.100		99.2	70-130			
Tetrachloroethene	0.0920	0.00200	"	0.100		92.0	70-130			
Toluene	0.0950	0.00200	"	0.100		95.0	70-130			
trans-1,2-Dichloroethene	0.0935	0.00200	"	0.100		93.5	70-130			
trans-1,3-Dichloropropene	0.0914	0.00200	"	0.100		91.4	70-130			
Trichloroethene	0.0943	0.00200	"	0.100		94.3	70-130			
Trichlorofluoromethane	0.104	0.00300	"	0.100		104	70-130			
Vinyl chloride	0.0962	0.00200	"	0.100		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

<b>Matrix Spike (B9F1810-MS1)</b>	<b>Source: Y906309-01</b>			<b>Prepared: 06/18/2019 Analyzed: 06/20/2019</b>						
1,1,1,2-Tetrachloroethane	0.0795	0.00200	mg/kg	0.100	ND	79.5	70-130			
1,1,1-Trichloroethane	0.0796	0.00200	"	0.100	ND	79.6	70-130			
1,1,2,2-Tetrachloroethane	0.0926	0.00200	"	0.100	ND	92.6	70-130			
1,1,2-Trichloroethane	0.0951	0.00200	"	0.100	ND	95.1	70-130			
1,1-Dichloroethane	0.0820	0.00200	"	0.100	ND	82.0	70-130			
1,1-Dichloroethene	0.0780	0.00200	"	0.100	ND	78.0	70-130			
1,1-Dichloropropene	0.0763	0.00200	"	0.100	ND	76.3	70-130			
1,2,3-Trichlorobenzene	0.0471	0.00500	"	0.100	ND	47.1	70-130			QM-07
1,2,3-Trichloropropane	0.0934	0.00500	"	0.100	ND	93.4	70-130			
1,2,4-Trichlorobenzene	0.0462	0.00500	"	0.100	ND	46.2	70-130			QM-07
1,2,4-Trimethylbenzene	0.0684	0.00200	"	0.100	0.00236	66.1	70-130			QM-07
1,2-Dibromo-3-chloropropane	0.0857	0.00500	"	0.100	ND	85.7	70-130			
1,2-Dibromoethane (EDB)	0.0950	0.00200	"	0.100	ND	95.0	70-130			
1,2-Dichlorobenzene	0.0663	0.00200	"	0.100	ND	66.3	70-130			QM-07
1,2-Dichloroethane	0.0967	0.00200	"	0.100	ND	96.7	70-130			
1,2-Dichloropropane	0.0894	0.00200	"	0.100	ND	89.4	70-130			
1,3,5-Trimethylbenzene	0.0656	0.00200	"	0.100	0.000960	64.6	70-130			QM-07
1,3-Dichlorobenzene	0.0623	0.00200	"	0.100	ND	62.3	70-130			QM-07
1,3-Dichloropropane	0.0939	0.00200	"	0.100	ND	93.9	70-130			
1,4-Dichlorobenzene	0.0636	0.00200	"	0.100	ND	63.6	70-130			QM-07
2,2-Dichloropropane	0.0733	0.00200	"	0.100	ND	73.3	70-130			
2-Butanone	0.558	0.0100	"	0.500	ND	112	70-130			
2-Chlorotoluene	0.0633	0.00200	"	0.100	ND	63.3	70-130			QM-07
2-Hexanone	0.505	0.0100	"	0.500	ND	101	70-130			
4-Chlorotoluene	0.0662	0.00200	"	0.100	0.00104	65.1	70-130			QM-07
4-Isopropyltoluene	0.0597	0.00200	"	0.100	ND	59.7	70-130			QM-07

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

<b>Matrix Spike (B9F1810-MS1)</b>	<b>Source: Y906309-01</b>			<b>Prepared: 06/18/2019 Analyzed: 06/20/2019</b>						
4-Methyl-2-pentanone	0.518	0.0100	mg/kg	0.500	0.00740	102	70-130			
Acetone	0.571	0.0200	"	0.500	ND	114	70-130			
Benzene	0.0820	0.00200	"	0.100	0.00326	78.8	70-130			
Bromobenzene	0.0709	0.00200	"	0.100	ND	70.9	70-130			
Bromochloromethane	0.0933	0.00200	"	0.100	ND	93.3	70-130			
Bromodichloromethane	0.0874	0.00200	"	0.100	ND	87.4	70-130			
Bromoform	0.0839	0.00200	"	0.100	ND	83.9	70-130			
Bromomethane	0.0816	0.00200	"	0.100	ND	81.6	70-130			
Carbon disulfide	0.0692	0.00500	"	0.100	ND	69.2	70-130			QM-07
Carbon tetrachloride	0.0770	0.00200	"	0.100	ND	77.0	70-130			
Chlorobenzene	0.0734	0.00200	"	0.100	ND	73.4	70-130			
Chloroethane	0.0780	0.00500	"	0.100	ND	78.0	70-130			
Chloroform	0.0831	0.00200	"	0.100	ND	83.1	70-130			
Chloromethane	0.0810	0.00200	"	0.100	ND	81.0	70-130			
cis-1,2-Dichloroethene	0.0824	0.00200	"	0.100	ND	82.4	70-130			
cis-1,3-Dichloropropene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
Dibromochloromethane	0.0872	0.00200	"	0.100	ND	87.2	70-130			
Dibromomethane	0.0953	0.00200	"	0.100	ND	95.3	70-130			
Ethylbenzene	0.0716	0.00200	"	0.100	0.00538	66.3	70-130			QM-07
Hexachlorobutadiene	0.0301	0.00500	"	0.100	ND	30.1	70-130			QM-07
Iodomethane	0.0769	0.0150	"	0.100	ND	76.9	70-130			
Isopropylbenzene	0.0675	0.00200	"	0.100	ND	67.5	70-130			QM-07
m,p-Xylene	0.147	0.00400	"	0.200	0.0143	66.4	70-130			QM-07
Methyl tert-Butyl Ether	0.100	0.00200	"	0.100	ND	100	70-130			
Methylene Chloride	0.0957	0.0200	"	0.100	0.0368	58.9	70-130			QM-07
Naphthalene	0.0620	0.0100	"	0.100	0.00496	57.1	70-130			QM-07

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Brian Humphrey  
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 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

<b>Matrix Spike (B9F1810-MS1)</b>	<b>Source: Y906309-01</b>			<b>Prepared: 06/18/2019 Analyzed: 06/20/2019</b>						
n-Butylbenzene	0.0525	0.00200	mg/kg	0.100	ND	52.5	70-130			QM-07
n-Propylbenzene	0.0639	0.00200	"	0.100	0.000600	63.3	70-130			QM-07
o-Xylene	0.0759	0.00200	"	0.100	0.00514	70.7	70-130			
sec-Butylbenzene	0.0578	0.00200	"	0.100	0.00168	56.1	70-130			QM-07
Styrene	0.0747	0.00200	"	0.100	ND	74.7	70-130			
tert-Butylbenzene	0.0625	0.00200	"	0.100	0.000320	62.2	70-130			QM-07
Tetrachloroethene	0.0662	0.00200	"	0.100	ND	66.2	70-130			QM-07
Toluene	0.0836	0.00200	"	0.100	0.0296	54.0	70-130			QM-07
trans-1,2-Dichloroethene	0.0780	0.00200	"	0.100	ND	78.0	70-130			
trans-1,3-Dichloropropene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
Trichloroethene	0.0765	0.00200	"	0.100	ND	76.5	70-130			
Trichlorofluoromethane	0.0789	0.00300	"	0.100	ND	78.9	70-130			
Vinyl chloride	0.0744	0.00200	"	0.100	ND	74.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9F1810-MSD1)</b>	<b>Source: Y906309-01</b>			<b>Prepared: 06/18/2019 Analyzed: 06/23/2019</b>						
1,1,1,2-Tetrachloroethane	0.0967	0.00200	mg/kg	0.100	ND	96.7	70-130	19.6	20	
1,1,1-Trichloroethane	0.110	0.00200	"	0.100	ND	110	70-130	32.1	20	QR-03
1,1,2,2-Tetrachloroethane	0.102	0.00200	"	0.100	ND	102	70-130	9.56	20	
1,1,2-Trichloroethane	0.101	0.00200	"	0.100	ND	101	70-130	5.92	20	
1,1-Dichloroethane	0.112	0.00200	"	0.100	ND	112	70-130	30.8	20	QR-03
1,1-Dichloroethene	0.124	0.00200	"	0.100	ND	124	70-130	45.8	20	QR-03
1,1-Dichloropropene	0.112	0.00200	"	0.100	ND	112	70-130	37.8	20	QR-03
1,2,3-Trichlorobenzene	0.0837	0.00500	"	0.100	ND	83.7	70-130	56.0	20	QR-03
1,2,3-Trichloropropane	0.101	0.00500	"	0.100	ND	101	70-130	8.25	20	
1,2,4-Trichlorobenzene	0.0853	0.00500	"	0.100	ND	85.3	70-130	59.5	20	QR-03
1,2,4-Trimethylbenzene	0.100	0.00200	"	0.100	0.00236	98.0	70-130	37.8	20	QR-03
1,2-Dibromo-3-chloropropane	0.101	0.00500	"	0.100	ND	101	70-130	16.5	20	
1,2-Dibromoethane (EDB)	0.101	0.00200	"	0.100	ND	101	70-130	6.02	20	
1,2-Dichlorobenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130	33.9	20	QR-03
1,2-Dichloroethane	0.103	0.00200	"	0.100	ND	103	70-130	6.44	20	
1,2-Dichloropropane	0.113	0.00200	"	0.100	ND	113	70-130	23.4	20	QR-03
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	0.000960	102	70-130	44.8	20	QR-03
1,3-Dichlorobenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130	38.1	20	QR-03
1,3-Dichloropropane	0.102	0.00200	"	0.100	ND	102	70-130	8.58	20	
1,4-Dichlorobenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130	37.9	20	QR-03
2,2-Dichloropropane	0.111	0.00200	"	0.100	ND	111	70-130	41.1	20	QR-03
2-Butanone	0.537	0.0100	"	0.500	ND	107	70-130	3.81	20	
2-Chlorotoluene	0.103	0.00200	"	0.100	ND	103	70-130	48.0	20	QR-03
2-Hexanone	0.513	0.0100	"	0.500	ND	103	70-130	1.54	20	
4-Chlorotoluene	0.103	0.00200	"	0.100	0.00104	102	70-130	43.7	20	QR-03
4-Isopropyltoluene	0.0993	0.00200	"	0.100	ND	99.3	70-130	49.8	20	QR-03

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9F1810-MSD1)</b>	<b>Source: Y906309-01</b>			<b>Prepared: 06/18/2019 Analyzed: 06/23/2019</b>						
4-Methyl-2-pentanone	0.525	0.0100	mg/kg	0.500	0.00740	104	70-130	1.32	20	
Acetone	0.496	0.0200	"	0.500	ND	99.3	70-130	14.0	20	
Benzene	0.111	0.00200	"	0.100	0.00326	107	70-130	29.7	20	QR-03
Bromobenzene	0.105	0.00200	"	0.100	ND	105	70-130	38.9	20	QR-03
Bromochloromethane	0.107	0.00200	"	0.100	ND	107	70-130	13.9	20	
Bromodichloromethane	0.114	0.00200	"	0.100	ND	114	70-130	26.6	20	QR-03
Bromoform	0.101	0.00200	"	0.100	ND	101	70-130	18.6	20	
Bromomethane	0.107	0.00200	"	0.100	ND	107	70-130	26.7	20	QR-03
Carbon disulfide	0.110	0.00500	"	0.100	ND	110	70-130	45.7	20	QR-03
Carbon tetrachloride	0.102	0.00200	"	0.100	ND	102	70-130	27.9	20	QR-03
Chlorobenzene	0.0985	0.00200	"	0.100	ND	98.5	70-130	29.2	20	QR-03
Chloroethane	0.107	0.00500	"	0.100	ND	107	70-130	31.0	20	QR-03
Chloroform	0.107	0.00200	"	0.100	ND	107	70-130	25.4	20	QR-03
Chloromethane	0.110	0.00200	"	0.100	ND	110	70-130	30.6	20	QR-03
cis-1,2-Dichloroethene	0.111	0.00200	"	0.100	ND	111	70-130	29.4	20	QR-03
cis-1,3-Dichloropropene	0.107	0.00200	"	0.100	ND	107	70-130	30.1	20	QR-03
Dibromochloromethane	0.0995	0.00200	"	0.100	ND	99.5	70-130	13.2	20	
Dibromomethane	0.107	0.00200	"	0.100	ND	107	70-130	11.2	20	
Ethylbenzene	0.110	0.00200	"	0.100	0.00538	104	70-130	41.9	20	QR-03
Hexachlorobutadiene	0.0744	0.00500	"	0.100	ND	74.4	70-130	84.7	20	QR-03
Iodomethane	0.126	0.0150	"	0.100	ND	126	70-130	48.5	20	QR-03
Isopropylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	43.0	20	QR-03
m,p-Xylene	0.214	0.00400	"	0.200	0.0143	99.8	70-130	36.9	20	QR-03
Methyl tert-Butyl Ether	0.105	0.00200	"	0.100	ND	105	70-130	4.64	20	
Methylene Chloride	0.0426	0.0200	"	0.100	0.0368	5.74	70-130	76.9	20	QM-07, QR-03
Naphthalene	0.0851	0.0100	"	0.100	0.00496	80.2	70-130	31.4	20	QR-03

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F1810 - EPA 5030 (soil)**

Matrix Spike Dup (B9F1810-MSD1)	Source: Y906309-01			Prepared: 06/18/2019 Analyzed: 06/23/2019						
n-Butylbenzene	0.0876	0.00200	mg/kg	0.100	ND	87.6	70-130	50.0	20	QR-03
n-Propylbenzene	0.0949	0.00200	"	0.100	0.000600	94.3	70-130	39.0	20	QR-03
o-Xylene	0.109	0.00200	"	0.100	0.00514	103	70-130	35.5	20	QR-03
sec-Butylbenzene	0.0997	0.00200	"	0.100	0.00168	98.0	70-130	53.2	20	QR-03
Styrene	0.108	0.00200	"	0.100	ND	108	70-130	36.1	20	QR-03
tert-Butylbenzene	0.101	0.00200	"	0.100	0.000320	101	70-130	47.1	20	QR-03
Tetrachloroethene	0.0999	0.00200	"	0.100	ND	99.9	70-130	40.7	20	QR-03
Toluene	0.108	0.00200	"	0.100	0.0296	78.1	70-130	25.2	20	QR-03
trans-1,2-Dichloroethene	0.112	0.00200	"	0.100	ND	112	70-130	35.4	20	QR-03
trans-1,3-Dichloropropene	0.105	0.00200	"	0.100	ND	105	70-130	25.3	20	QR-03
Trichloroethene	0.109	0.00200	"	0.100	ND	109	70-130	35.0	20	QR-03
Trichlorofluoromethane	0.106	0.00300	"	0.100	ND	106	70-130	29.6	20	QR-03
Vinyl chloride	0.112	0.00200	"	0.100	ND	112	70-130	40.1	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2004 - EPA 3580</b>										
<b>Blank (B9F2004-BLK1)</b>										
					Prepared: 06/20/2019 Analyzed: 06/20/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	37		"	50.0		74.7	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9F2004 - EPA 3580</b>										
<b>Blank (B9F2004-BLK2)</b>										
					Prepared: 06/20/2019 Analyzed: 06/21/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	47		"	50.0		93.1	50-150			

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 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F2004 - EPA 3580**

**LCS (B9F2004-BS1)**

Prepared: 06/20/2019 Analyzed: 06/20/2019

Diesel (C10-C28)	943	50.0	mg/kg	1000		94.3	70-130			
Surrogate: o-Terphenyl	40		"	50.0		79.2	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F2004 - EPA 3580**

**LCS (B9F2004-BS2)**

Prepared: 06/20/2019 Analyzed: 06/21/2019

Diesel (C10-C28)	964	50.0	mg/kg	1000		96.4	70-130			
Surrogate: <i>o</i> -Terphenyl	47		"	50.0		95.0	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F2004 - EPA 3580**

<b>Matrix Spike (B9F2004-MS1)</b>	<b>Source: Y906337-01</b>			Prepared: 06/20/2019 Analyzed: 06/20/2019						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	34.3	99.8	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.1	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F2004 - EPA 3580**

<b>Matrix Spike (B9F2004-MS2)</b>	<b>Source: Y906355-03</b>			Prepared: 06/20/2019 Analyzed: 06/21/2019						
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Surrogate: <i>o</i> -Terphenyl	50		"	50.0		99.1	50-150			

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Brian Humphrey  
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 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F2004 - EPA 3580**

<b>Matrix Spike Dup (B9F2004-MSD1)</b>	<b>Source: Y906337-01</b>			Prepared: 06/20/2019 Analyzed: 06/20/2019						
Diesel (C10-C28)	929	50.0	mg/kg	1000	34.3	89.5	70-130	10.5	35	
Surrogate: <i>o</i> -Terphenyl	43		"	50.0		85.5	50-150			

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 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9F2004 - EPA 3580**

<b>Matrix Spike Dup (B9F2004-MSD2)</b>	<b>Source: Y906355-03</b>			Prepared: 06/20/2019 Analyzed: 06/21/2019						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	3.18	35	
Surrogate: o-Terphenyl	49		"	50.0		97.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

---

### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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July 12, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. July 11, 2019. This project is associated with Origins project number Y907176-01.

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH31@10'	Y907176-01	Soil	July 11, 2019 9:30	07/11/2019 16:50
BH31@12'	Y907176-02	Soil	July 11, 2019 9:36	07/11/2019 16:50
BH31@17.5'	Y907176-03	Soil	July 11, 2019 9:38	07/11/2019 16:50
BH32@10'	Y907176-04	Soil	July 11, 2019 10:20	07/11/2019 16:50
BH32@12'	Y907176-05	Soil	July 11, 2019 10:40	07/11/2019 16:50
BH32@18'	Y907176-06	Soil	July 11, 2019 10:56	07/11/2019 16:50
BH33@8'	Y907176-07	Soil	July 11, 2019 12:05	07/11/2019 16:50
BH33@12'	Y907176-08	Soil	July 11, 2019 12:15	07/11/2019 16:50
BH33@16'	Y907176-09	Soil	July 11, 2019 12:26	07/11/2019 16:50
BH34@12'	Y907176-10	Soil	July 11, 2019 13:26	07/11/2019 16:50
BH34@15'	Y907176-11	Soil	July 11, 2019 13:34	07/11/2019 16:50

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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page 1 of 2



Client: Tasman / DCP  
 Address: \_\_\_\_\_  
 Telephone Number: 303-487-1228  
 Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey  
 Project Name: DCP - CR42/13  
 Project Number: \_\_\_\_\_  
 Samples Collected By: Brent Everett

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summng			Conister #	
BH31 @ 10'	7/11/19	0930	1	X					X					
BH31 @ 12'		0936												
BH31 @ 17.5'		0938												
BH32 @ 10'		1020												
BH32 @ 12'		1040												
BH32 @ 18'		1056												
BH33 @ 8'		1205												
BH33 @ 12'		1215												
BH33 @ 16'		1226												
BH34 @ 12'		1326												
Relinquished By: [Signature]	Date: 7/11/19	Time:	Time:	Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summng	Conister #	Other	82608 GOTEX 8015 DR	Sample Instructions
Relinquished By:	Date:	Time:	Time:	Received By: [Signature]	Received By:	Date: 07/11/19	Time: 1650	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						

Date Results Needed

2.7

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

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.



Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: y907176 Client: Tasman  
 Client Project ID: CR42 + CR13  
 Checklist Completed by: JG Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 7 / 11 / 2019 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 (Describe)  
 Cooler Number/Temperature: 1 / 4.2 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH31@10'**

**7/11/2019 9:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	0.261	0.00200	mg/kg	1	B9G1106	KDK	07/11/2019	07/11/2019	
Toluene	0.0242	0.00200	"	"	"	KDK	"	"	
Ethylbenzene	0.00274	0.00200	"	"	"	KDK	"	"	
Xylenes, total	0.0159	0.00200	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	0.336	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
Surrogate: o-Terphenyl	81.5 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH31@12'**

**7/11/2019 9:36:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	5.24	0.500	mg/kg	250	B9G1106	KDK	07/11/2019	07/11/2019	
Toluene	11.9	0.500	"	"	"	KDK	"	"	
Ethylbenzene	1.64	0.500	"	"	"	KDK	"	"	
Xylenes, total	11.8	0.500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	485	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	89.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	341	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	
Surrogate: o-Terphenyl	88.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH31@17.5'**  
**7/11/2019 9:38:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B9G1106	KDK	07/11/2019	07/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
Surrogate: o-Terphenyl	85.0 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH32@10'**

**7/11/2019 10:20:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9G1106	KDK	07/11/2019	07/12/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
Surrogate: o-Terphenyl	93.5 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH32@12'**  
**7/11/2019 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-05 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	0.484	0.0500	mg/kg	25	B9G1106	KDK	07/11/2019	07/12/2019	
Toluene	1.22	0.0500	"	"	"	KDK	"	"	
Ethylbenzene	0.216	0.0500	"	"	"	KDK	"	"	
Xylenes, total	1.61	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	41.1	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	83.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
Surrogate: o-Terphenyl	69.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH32@18'**

**7/11/2019 10:56:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-06 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	0.316	0.0500	mg/kg	25	B9G1106	KDK	07/11/2019	07/12/2019	
Toluene	0.512	0.0500	"	"	"	KDK	"	"	
Ethylbenzene	0.0830	0.0500	"	"	"	KDK	"	"	
Xylenes, total	0.598	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	26.1	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	82.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
Surrogate: o-Terphenyl	73.6 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH33@8'**

**7/11/2019 12:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-07 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B9G1106	KDK	07/11/2019	07/12/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
Surrogate: o-Terphenyl	86.0 %	50-150			"	"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH33@12'**

**7/11/2019 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-08 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	29.8	0.500	mg/kg	250	B9G1106	KDK	07/11/2019	07/12/2019	
Toluene	61.6	0.500	"	"	"	KDK	"	"	
Ethylbenzene	6.84	0.500	"	"	"	KDK	"	"	
Xylenes, total	47.2	0.500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	2080	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"		07/12/2019	
Surrogate: Toluene-d8	96.7 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"		"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	548	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	
Surrogate: o-Terphenyl	97.1 %	50-150			"	"		"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH33@16'**

**7/11/2019 12:26:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-09 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9G1106	KDK	07/11/2019	07/12/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	82.5 %	70-130			"	"		07/12/2019	
Surrogate: Toluene-d8	97.2 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"		"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
Surrogate: o-Terphenyl	84.4 %	50-150			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH34@12'**

**7/11/2019 1:26:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-10 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B9G1106	KDK	07/11/2019	07/12/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	81.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
Surrogate: o-Terphenyl	84.0 %	50-150			"	"	"	"	

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH34@15'**

**7/11/2019 1:34:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907176-11 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9G1106	KDK	07/11/2019	07/12/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/11/2019	U
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Surrogate: o-Terphenyl	87.6 %	50-150			"	"	"	"	
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Brian Humphrey  
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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1106 - EPA 5030 (soil)**

**Blank (B9G1106-BLK1)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.11</i>		<i>"</i>	<i>0.125</i>		<i>85.3</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.7</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.9</i>	<i>70-130</i>			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1106 - EPA 5030 (soil)**

**Blank (B9G1106-BLK2)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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Brian Humphrey  
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 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1106 - EPA 5030 (soil)**

**LCS (B9G1106-BS1)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Benzene	0.106	0.00200	mg/kg	0.100		106	70-130			
Toluene	0.0982	0.00200	"	0.100		98.2	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1106 - EPA 5030 (soil)**

**LCS (B9G1106-BS2)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Benzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.206	0.00400	"	0.200		103	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1106 - EPA 5030 (soil)**

<b>Matrix Spike (B9G1106-MS1)</b>	<b>Source: Y907163-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Benzene	0.0957	0.00200	mg/kg	0.100	ND	95.7	70-130			
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	0.000760	102	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	0.00300	99.5	70-130			
o-Xylene	0.106	0.00200	"	0.100	0.00146	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1106 - EPA 5030 (soil)**

<b>Matrix Spike (B9G1106-MS2)</b>	<b>Source: Y907169-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Benzene	0.0903	0.00200	mg/kg	0.100	ND	90.3	70-130			
Toluene	0.0867	0.00200	"	0.100	ND	86.7	70-130			
Ethylbenzene	0.0951	0.00200	"	0.100	ND	95.1	70-130			
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.2	70-130			
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>95.4</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.5</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>101</i>	<i>70-130</i>			

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 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1106 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9G1106-MSD1)</b>	<b>Source: Y907163-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Benzene	0.0984	0.00200	mg/kg	0.100	ND	98.4	70-130	2.74	20	
Toluene	0.0935	0.00200	"	0.100	ND	93.5	70-130	2.75	20	
Ethylbenzene	0.0862	0.00200	"	0.100	0.000760	85.4	70-130	17.5	20	
m,p-Xylene	0.172	0.00400	"	0.200	0.00300	84.5	70-130	16.1	20	
o-Xylene	0.0925	0.00200	"	0.100	0.00146	91.1	70-130	13.8	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>96.6</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.2</i>	<i>70-130</i>			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1106 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9G1106-MSD2)</b>	<b>Source: Y907169-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Benzene	0.0859	0.00200	mg/kg	0.100	ND	85.9	70-130	5.02	20	
Toluene	0.0824	0.00200	"	0.100	ND	82.4	70-130	5.08	20	
Ethylbenzene	0.0874	0.00200	"	0.100	ND	87.4	70-130	8.46	20	
m,p-Xylene	0.172	0.00400	"	0.200	ND	86.0	70-130	9.10	20	
o-Xylene	0.0912	0.00200	"	0.100	ND	91.2	70-130	9.31	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>93.8</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.7</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.4</i>	<i>70-130</i>			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9G1107 - EPA 3580</b>										
<b>Blank (B9G1107-BLK1)</b>										
					Prepared: 07/11/2019 Analyzed: 07/11/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		82.7	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9G1107 - EPA 3580</b>										
<b>Blank (B9G1107-BLK2)</b>										
					Prepared: 07/11/2019 Analyzed: 07/11/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	38		"	50.0		76.6	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1107 - EPA 3580**

**LCS (B9G1107-BS1)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Diesel (C10-C28)	945	50.0	mg/kg	1000		94.5	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.2	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1107 - EPA 3580**

**LCS (B9G1107-BS2)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Diesel (C10-C28)	929	50.0	mg/kg	1000		92.9	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.7	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1107 - EPA 3580**

<b>Matrix Spike (B9G1107-MS1)</b>	<b>Source: Y907160-01</b>			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Diesel (C10-C28)	931	50.0	mg/kg	1000	ND	93.1	70-130			
Surrogate: o-Terphenyl	48		"	50.0		95.8	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1107 - EPA 3580**

<b>Matrix Spike (B9G1107-MS2)</b>	<b>Source: Y907169-01</b>			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Diesel (C10-C28)	976	50.0	mg/kg	1000	ND	97.6	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.5	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1107 - EPA 3580**

<b>Matrix Spike Dup (B9G1107-MSD1)</b>	<b>Source: Y907160-01</b>			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	9.77	35	
Surrogate: o-Terphenyl	53		"	50.0		105	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1107 - EPA 3580**

<b>Matrix Spike Dup (B9G1107-MSD2)</b>	<b>Source: Y907169-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Diesel (C10-C28)	840	50.0	mg/kg	1000	ND	84.0	70-130	15.0	35	
Surrogate: o-Terphenyl	43		"	50.0		85.4	50-150			

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6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

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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



July 15, 2019

**Tasman Geosciences**

**Brian Humphrey**

**6899 Pecos Street, Unit C**

**Denver**

**CO 80211**

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. July 12, 2019. This project is associated with Origins project number Y907200-01.

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH35@12'	Y907200-01	Soil	July 12, 2019 10:45	07/12/2019 16:21
BH35@15'	Y907200-02	Soil	July 12, 2019 11:07	07/12/2019 16:21
BH36@12.5'	Y907200-03	Soil	July 12, 2019 12:12	07/12/2019 16:21
BH36@18'	Y907200-04	Soil	July 12, 2019 13:30	07/12/2019 16:21

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907200

Client: Tasman

Client Project ID: CR42 + 13

Checklist Completed by: JG

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

Date/time completed: 7/12/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 34 °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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / ( pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input 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: [Signature] (Project Manager)

Date/Time Reviewed: 7/12/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH35@12'**  
**7/12/2019 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907200-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9G1208	KDK	07/12/2019	07/12/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1202	KDK	07/12/2019	07/12/2019	U
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Surrogate: o-Terphenyl	65.9 %	50-150			"	"	"	"	
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Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH35@15'**

**7/12/2019 11:07:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907200-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9G1208	KDK	07/12/2019	07/13/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	<b>43.4</b>	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	<b>164</b>	50.0	mg/kg	1	B9G1202	KDK	07/12/2019	07/12/2019	
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Surrogate: o-Terphenyl	69.3 %	50-150			"	"	"	"	
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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH36@12.5'**  
**7/12/2019 12:12:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907200-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9G1208	KDK	07/12/2019	07/12/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1202	KDK	07/12/2019	07/12/2019	U
Surrogate: o-Terphenyl	74.5 %	50-150			"	"	"	"	

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH36@18'**

**7/12/2019 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907200-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B9G1208	KDK	07/12/2019	07/12/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G1202	KDK	07/12/2019	07/12/2019	U
Surrogate: o-Terphenyl	77.6 %	50-150			"	"	"	"	

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 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9G1202 - EPA 3580</b>										
<b>Blank (B9G1202-BLK1)</b>										
					Prepared: 07/12/2019 Analyzed: 07/12/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		82.8	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9G1202 - EPA 3580</b>										
<b>Blank (B9G1202-BLK2)</b>					Prepared: 07/12/2019 Analyzed: 07/12/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		90.2	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1202 - EPA 3580**

**LCS (B9G1202-BS1)**

Prepared: 07/12/2019 Analyzed: 07/12/2019

Diesel (C10-C28)	875	50.0	mg/kg	1000		87.5	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.5	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1202 - EPA 3580**

**LCS (B9G1202-BS2)**

Prepared: 07/12/2019 Analyzed: 07/12/2019

Diesel (C10-C28)	852	50.0	mg/kg	1000		85.2	70-130			
Surrogate: o-Terphenyl	45		"	50.0		90.8	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1202 - EPA 3580**

<b>Matrix Spike (B9G1202-MS1)</b>	<b>Source: Y907175-01</b>			Prepared: 07/12/2019 Analyzed: 07/12/2019						
Diesel (C10-C28)	892	50.0	mg/kg	1000	ND	89.2	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.9	50-150			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1202 - EPA 3580**

<b>Matrix Spike (B9G1202-MS2)</b>	<b>Source: Y907185-01</b>			Prepared: 07/12/2019 Analyzed: 07/12/2019						
Diesel (C10-C28)	4260	50.0	mg/kg	1000	1580	268	70-130			QM-07
Surrogate: o-Terphenyl	65		"	50.0		131	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1202 - EPA 3580**

<b>Matrix Spike Dup (B9G1202-MSD1)</b>	<b>Source: Y907175-01</b>			Prepared: 07/12/2019 Analyzed: 07/12/2019						
Diesel (C10-C28)	845	50.0	mg/kg	1000	ND	84.5	70-130	5.43	35	
Surrogate: <i>o</i> -Terphenyl	44		"	50.0		87.9	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1202 - EPA 3580**

<b>Matrix Spike Dup (B9G1202-MSD2)</b>	<b>Source: Y907185-01</b>				Prepared: 07/12/2019 Analyzed: 07/12/2019					
Diesel (C10-C28)	4260	50.0	mg/kg	1000	1580	268	70-130	0.0940	35	QM-07
Surrogate: o-Terphenyl	60		"	50.0		119	50-150			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G1208 - EPA 5030 (soil)**

**Blank (B9G1208-BLK1)**

Prepared: 07/12/2019 Analyzed: 07/12/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.8</i>	<i>70-130</i>			

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1208 - EPA 5030 (soil)**

**LCS (B9G1208-BS1)**

Prepared: 07/12/2019 Analyzed: 07/12/2019

Benzene	0.0928	0.00200	mg/kg	0.100		92.8	70-130			
Toluene	0.0946	0.00200	"	0.100		94.6	70-130			
Ethylbenzene	0.0951	0.00200	"	0.100		95.1	70-130			
m,p-Xylene	0.193	0.00400	"	0.200		96.3	70-130			
o-Xylene	0.0950	0.00200	"	0.100		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1208 - EPA 5030 (soil)**

<b>Matrix Spike (B9G1208-MS1)</b>	<b>Source: Y907181-07</b>			<b>Prepared: 07/12/2019 Analyzed: 07/12/2019</b>						
Benzene	0.0832	0.00200	mg/kg	0.100	ND	83.2	70-130			
Toluene	0.0827	0.00200	"	0.100	ND	82.7	70-130			
Ethylbenzene	0.0823	0.00200	"	0.100	ND	82.3	70-130			
m,p-Xylene	0.166	0.00400	"	0.200	ND	83.1	70-130			
o-Xylene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>97.7</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.4</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.3</i>	<i>70-130</i>			

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G1208 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9G1208-MSD1)</b>	<b>Source: Y907181-07</b>			<b>Prepared: 07/12/2019 Analyzed: 07/12/2019</b>						
Benzene	0.0828	0.00200	mg/kg	0.100	ND	82.8	70-130	0.434	20	
Toluene	0.0819	0.00200	"	0.100	ND	81.9	70-130	0.899	20	
Ethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	1.42	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.4	70-130	0.895	20	
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	1.28	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

---

**Notes and Definitions**

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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---

Jen Pellegrini For Noelle Doyle Mathis, President

July 26, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - DCP - CR42 & CR13**

**Project Number - CR42/CR13**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. July 25, 2019. This project is associated with Origins project number Y907403-01.

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



Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: CR42/CR13  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH37@3'	Y907403-01	Soil	July 25, 2019 11:00	07/25/2019 17:12
BH37@12-13'	Y907403-02	Soil	July 25, 2019 11:30	07/25/2019 17:12
BH37@18'	Y907403-03	Soil	July 25, 2019 13:00	07/25/2019 17:12
BH38@13.5'	Y907403-04	Soil	July 25, 2019 15:15	07/25/2019 17:12
BH38@14'	Y907403-05	Soil	July 25, 2019 15:20	07/25/2019 17:12
BH38@18'	Y907403-06	Soil	July 25, 2019 15:30	07/25/2019 17:12

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 7907403

Client: Tasman

Client Project ID: ICP - CR42 - CR13

Checklist Completed by: Dante

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

Date/time completed: 7-25-19

Airbill #: 44

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

Cooler Number/Temperature: 12.1 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1003

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 7-25-19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@3'**

**7/25/2019 11:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2509	KDK	07/25/2019	07/25/2019	U
Surrogate: <i>o</i> -Terphenyl	76.0 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@3'**

**7/25/2019 11:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-01 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

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Tasman Geosciences  
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 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@3'**

**7/25/2019 11:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-01 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	07/25/2019	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	07/25/2019	U

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**BH37@3'**

**7/25/2019 11:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-01 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130  
 Surrogate: Toluene-d8 95.2 % 70-130  
 Surrogate: 4-Bromofluorobenzene 100 % 70-130

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@12-13'**  
**7/25/2019 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2509	KDK	07/25/2019	07/25/2019	U
Surrogate: o-Terphenyl	76.5 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
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 Project: DCP - CR42 & CR13

**BH37@12-13'**  
**7/25/2019 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-02 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@12-13'**  
**7/25/2019 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-02 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	07/25/2019	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	07/25/2019	U

Origins Laboratory, Inc.



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 Denver CO 80211

Brian Humphrey  
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**BH37@12-13'**  
**7/25/2019 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-02 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@18'**

**7/25/2019 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-03 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2509	KDK	07/25/2019	07/25/2019	U
Surrogate: o-Terphenyl	73.7 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	<b>0.00576</b>	0.00200	"	"	"	KDK	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@18'**

**7/25/2019 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-03 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,3,5-Trimethylbenzene	<b>0.00220</b>	0.00200	"	"	"	KDK	"	"	
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	<b>0.0224</b>	0.00200	"	"	"	KDK	"	"	
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Carbon disulfide	ND	0.00500	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@18'**

**7/25/2019 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-03 (Soil)**

**VOC by EPA 8260D**

Carbon tetrachloride	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	<b>0.00414</b>	0.00200	"	"	"	KDK	"	"	
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	<b>0.0208</b>	0.00400	"	"	"	KDK	"	"	
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	07/25/2019	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	07/25/2019	U
n-Propylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
o-Xylene	<b>0.00646</b>	0.00200	"	"	"	KDK	"	"	

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Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH37@18'**

**7/25/2019 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-03 (Soil)**

**VOC by EPA 8260D**

sec-Butylbenzene	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	<b>0.0328</b>	0.00200	"	"	"	KDK	"	"	
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	<b>1.25</b>	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

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Tasman Geosciences  
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 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH38@13.5'**  
**7/25/2019 3:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-04 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2509	KDK	07/25/2019	07/25/2019	U
Surrogate: o-Terphenyl	75.0 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	<b>0.0204</b>	0.00200	"	"	"	KDK	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH38@13.5'**  
**7/25/2019 3:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-04 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,3,5-Trimethylbenzene	<b>0.00648</b>	0.00200	"	"	"	KDK	"	"	
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	<b>0.0331</b>	0.00200	"	"	"	KDK	"	"	
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Carbon disulfide	ND	0.00500	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Brian Humphrey  
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**BH38@13.5'**  
**7/25/2019 3:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-04 (Soil)**

**VOC by EPA 8260D**

Carbon tetrachloride	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	<b>0.00940</b>	0.00200	"	"	"	KDK	"	"	
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	<b>0.0519</b>	0.00400	"	"	"	KDK	"	"	
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	07/25/2019	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	07/25/2019	U
n-Propylbenzene	<b>0.00320</b>	0.00200	"	"	"	KDK	"	"	
o-Xylene	<b>0.0216</b>	0.00200	"	"	"	KDK	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH38@13.5'**  
**7/25/2019 3:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-04 (Soil)**

**VOC by EPA 8260D**

sec-Butylbenzene	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	<b>0.0590</b>	0.00200	"	"	"	KDK	"	"	
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	<b>1.28</b>	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH38@14'**

**7/25/2019 3:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-05 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2509	KDK	07/25/2019	07/25/2019	U
Surrogate: o-Terphenyl	74.9 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	<b>0.00504</b>	0.00200	"	"	"	KDK	"	"	
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

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Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH38@14'**

**7/25/2019 3:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-05 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	<b>0.238</b>	0.00200	"	"	"	KDK	"	"	
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**BH38@14'**

**7/25/2019 3:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-05 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	<b>0.00652</b>	0.00200	"	"	"	KDK	"	"	
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	<b>0.0314</b>	0.00400	"	"	"	KDK	"	"	
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	07/25/2019	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	07/25/2019	U
n-Propylbenzene	ND	0.00200	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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**BH38@14'**

**7/25/2019 3:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-05 (Soil)**

**VOC by EPA 8260D**

o-Xylene	0.0133	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	0.148	0.00200	"	"	"	KDK	"	"	
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	0.481	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	"	

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 Project: DCP - CR42 & CR13

**BH38@18'**

**7/25/2019 3:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-06 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9G2509	KDK	07/25/2019	07/26/2019	U
Surrogate: o-Terphenyl	74.1 %	50-150			"	"	"	"	

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,1,1-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,3-Trichloropropane	ND	0.00500	"	"	"	KDK	"	07/25/2019	U
1,2,4-Trichlorobenzene	ND	0.00500	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	0.00500	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	0.00200	"	"	"	KDK	"	"	U

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**BH38@18'**

**7/25/2019 3:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-06 (Soil)**

**VOC by EPA 8260D**

1,2-Dichloropropane	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
1,4-Dichlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
2,2-Dichloropropane	ND	0.00200	"	"	"	KDK	"	"	U
2-Butanone	ND	0.0100	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
2-Hexanone	ND	0.0100	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	0.00200	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	0.0100	"	"	"	KDK	"	"	U
Acetone	ND	0.0200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Bromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Bromoform	ND	0.00200	"	"	"	KDK	"	"	U
Bromomethane	ND	0.00200	"	"	"	KDK	"	"	U

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 Project: DCP - CR42 & CR13

**BH38@18'**

**7/25/2019 3:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-06 (Soil)**

**VOC by EPA 8260D**

Carbon disulfide	ND	0.00500	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
Carbon tetrachloride	ND	0.00200	"	"	"	KDK	"	"	U
Chlorobenzene	ND	0.00200	"	"	"	KDK	"	"	U
Chloroethane	ND	0.00500	"	"	"	KDK	"	"	U
Chloroform	ND	0.00200	"	"	"	KDK	"	"	U
Chloromethane	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	0.00200	"	"	"	KDK	"	"	U
Dibromomethane	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	0.00500	"	"	"	KDK	"	"	U
Iodomethane	ND	0.0150	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
m,p-Xylene	ND	0.00400	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	0.00200	"	"	"	KDK	"	"	U
Methylene Chloride	ND	0.0200	"	"	"	KDK	"	"	U
Naphthalene	ND	0.0100	"	"	"	KDK	"	07/25/2019	U
n-Butylbenzene	ND	0.00200	"	"	"	KDK	"	07/25/2019	U

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**BH38@18'**

**7/25/2019 3:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907403-06 (Soil)**

**VOC by EPA 8260D**

n-Propylbenzene	ND	0.00200	mg/kg	1	B9G2503	KDK	07/25/2019	07/25/2019	U
o-Xylene	ND	0.00200	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Styrene	ND	0.00200	"	"	"	KDK	"	"	U
tert-Butylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Tetrachloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	0.00200	"	"	"	KDK	"	"	U
Trichloroethene	ND	0.00200	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	0.00300	"	"	"	KDK	"	"	U
Vinyl chloride	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 126 % 70-130  
 Surrogate: Toluene-d8 95.4 % 70-130  
 Surrogate: 4-Bromofluorobenzene 97.8 % 70-130

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

**Blank (B9G2503-BLK1)**

Prepared: 07/25/2019 Analyzed: 07/25/2019

1,1,1,2-Tetrachloroethane	ND	0.00200	mg/kg							U
1,1,1-Trichloroethane	ND	0.00200	"							U
1,1,2,2-Tetrachloroethane	ND	0.00200	"							U
1,1,2-Trichloroethane	ND	0.00200	"							U
1,1-Dichloroethane	ND	0.00200	"							U
1,1-Dichloroethene	ND	0.00200	"							U
1,1-Dichloropropene	ND	0.00200	"							U
1,2,3-Trichlorobenzene	ND	0.00500	"							U
1,2,3-Trichloropropane	ND	0.00500	"							U
1,2,4-Trichlorobenzene	ND	0.00500	"							U
1,2,4-Trimethylbenzene	ND	0.00200	"							U
1,2-Dibromo-3-chloropropane	ND	0.00500	"							U
1,2-Dibromoethane (EDB)	ND	0.00200	"							U
1,2-Dichlorobenzene	ND	0.00200	"							U
1,2-Dichloroethane	ND	0.00200	"							U
1,2-Dichloropropane	ND	0.00200	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
1,3-Dichlorobenzene	ND	0.00200	"							U
1,3-Dichloropropane	ND	0.00200	"							U
1,4-Dichlorobenzene	ND	0.00200	"							U
2,2-Dichloropropane	ND	0.00200	"							U
2-Butanone	ND	0.0100	"							U
2-Chlorotoluene	ND	0.00200	"							U
2-Hexanone	ND	0.0100	"							U
4-Chlorotoluene	ND	0.00200	"							U
4-Isopropyltoluene	ND	0.00200	"							U

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Brian Humphrey  
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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

**Blank (B9G2503-BLK1)**

Prepared: 07/25/2019 Analyzed: 07/25/2019

4-Methyl-2-pentanone	ND	0.0100	mg/kg							U
Acetone	ND	0.0200	"							U
Benzene	ND	0.00200	"							U
Bromobenzene	ND	0.00200	"							U
Bromochloromethane	ND	0.00200	"							U
Bromodichloromethane	ND	0.00200	"							U
Bromoform	ND	0.00200	"							U
Bromomethane	ND	0.00200	"							U
Carbon disulfide	ND	0.00500	"							U
Carbon tetrachloride	ND	0.00200	"							U
Chlorobenzene	ND	0.00200	"							U
Chloroethane	ND	0.00500	"							U
Chloroform	ND	0.00200	"							U
Chloromethane	ND	0.00200	"							U
cis-1,2-Dichloroethene	ND	0.00200	"							U
cis-1,3-Dichloropropene	ND	0.00200	"							U
Dibromochloromethane	ND	0.00200	"							U
Dibromomethane	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Hexachlorobutadiene	ND	0.00500	"							U
Iodomethane	ND	0.0150	"							U
Isopropylbenzene	ND	0.00200	"							U
m,p-Xylene	ND	0.00400	"							U
Methyl tert-Butyl Ether	ND	0.00200	"							U
Methylene Chloride	0.0352	0.0200	"							A-01
Naphthalene	ND	0.0100	"							U

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 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

**Blank (B9G2503-BLK1)**

Prepared: 07/25/2019 Analyzed: 07/25/2019

n-Butylbenzene	ND	0.00200	mg/kg							U
n-Propylbenzene	ND	0.00200	"							U
o-Xylene	ND	0.00200	"							U
sec-Butylbenzene	ND	0.00200	"							U
Styrene	ND	0.00200	"							U
tert-Butylbenzene	ND	0.00200	"							U
Tetrachloroethene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
trans-1,2-Dichloroethene	ND	0.00200	"							U
trans-1,3-Dichloropropene	ND	0.00200	"							U
Trichloroethene	ND	0.00200	"							U
Trichlorofluoromethane	ND	0.00300	"							U
Vinyl chloride	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

**LCS (B9G2503-BS1)**

Prepared: 07/25/2019 Analyzed: 07/25/2019

1,1,1,2-Tetrachloroethane	0.0903	0.00200	mg/kg	0.100		90.3	70-130			
1,1,1-Trichloroethane	0.0916	0.00200	"	0.100		91.6	70-130			
1,1,2,2-Tetrachloroethane	0.0824	0.00200	"	0.100		82.4	70-130			
1,1,2-Trichloroethane	0.0781	0.00200	"	0.100		78.1	70-130			
1,1-Dichloroethane	0.0882	0.00200	"	0.100		88.2	70-130			
1,1-Dichloroethene	0.0930	0.00200	"	0.100		93.0	70-130			
1,1-Dichloropropene	0.0893	0.00200	"	0.100		89.3	70-130			
1,2,3-Trichlorobenzene	0.0809	0.00500	"	0.100		80.9	70-130			
1,2,3-Trichloropropane	0.0831	0.00500	"	0.100		83.1	70-130			
1,2,4-Trichlorobenzene	0.0744	0.00500	"	0.100		74.4	70-130			
1,2,4-Trimethylbenzene	0.0871	0.00200	"	0.100		87.1	70-130			
1,2-Dibromo-3-chloropropane	0.0793	0.00500	"	0.100		79.3	70-130			
1,2-Dibromoethane (EDB)	0.0822	0.00200	"	0.100		82.2	70-130			
1,2-Dichlorobenzene	0.0822	0.00200	"	0.100		82.2	70-130			
1,2-Dichloroethane	0.0918	0.00200	"	0.100		91.8	70-130			
1,2-Dichloropropane	0.0826	0.00200	"	0.100		82.6	70-130			
1,3,5-Trimethylbenzene	0.0880	0.00200	"	0.100		88.0	70-130			
1,3-Dichlorobenzene	0.0837	0.00200	"	0.100		83.7	70-130			
1,3-Dichloropropane	0.0795	0.00200	"	0.100		79.5	70-130			
1,4-Dichlorobenzene	0.0825	0.00200	"	0.100		82.5	70-130			
2,2-Dichloropropane	0.0985	0.00200	"	0.100		98.5	70-130			
2-Butanone	0.534	0.0100	"	0.500		107	70-130			
2-Chlorotoluene	0.0926	0.00200	"	0.100		92.6	70-130			
2-Hexanone	0.464	0.0100	"	0.500		92.9	70-130			
4-Chlorotoluene	0.0826	0.00200	"	0.100		82.6	70-130			
4-Isopropyltoluene	0.0888	0.00200	"	0.100		88.8	70-130			

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

**LCS (B9G2503-BS1)**

Prepared: 07/25/2019 Analyzed: 07/25/2019

4-Methyl-2-pentanone	0.423	0.0100	mg/kg	0.500		84.7	70-130			
Acetone	0.748	0.0200	"	0.500		150	70-130			QM-11
Benzene	0.0872	0.00200	"	0.100		87.2	70-130			
Bromobenzene	0.0849	0.00200	"	0.100		84.9	70-130			
Bromochloromethane	0.0878	0.00200	"	0.100		87.8	70-130			
Bromodichloromethane	0.0901	0.00200	"	0.100		90.1	70-130			
Bromoform	0.0968	0.00200	"	0.100		96.8	70-130			
Bromomethane	0.224	0.00200	"	0.100		224	70-130			QM-11
Carbon disulfide	0.168	0.00500	"	0.100		168	70-130			QM-11
Carbon tetrachloride	0.0951	0.00200	"	0.100		95.1	70-130			
Chlorobenzene	0.0824	0.00200	"	0.100		82.4	70-130			
Chloroethane	0.188	0.00500	"	0.100		188	70-130			QM-11
Chloroform	0.0863	0.00200	"	0.100		86.3	70-130			
Chloromethane	0.350	0.00200	"	0.100		350	70-130			QM-11
cis-1,2-Dichloroethene	0.0894	0.00200	"	0.100		89.4	70-130			
cis-1,3-Dichloropropene	0.0817	0.00200	"	0.100		81.7	70-130			
Dibromochloromethane	0.0891	0.00200	"	0.100		89.1	70-130			
Dibromomethane	0.0848	0.00200	"	0.100		84.8	70-130			
Ethylbenzene	0.0877	0.00200	"	0.100		87.7	70-130			
Hexachlorobutadiene	0.0813	0.00500	"	0.100		81.3	70-130			
Iodomethane	0.109	0.0150	"	0.100		109	70-130			
Isopropylbenzene	0.0867	0.00200	"	0.100		86.7	70-130			
m,p-Xylene	0.188	0.00400	"	0.200		93.9	70-130			
Methyl tert-Butyl Ether	0.0937	0.00200	"	0.100		93.7	70-130			
Methylene Chloride	0.142	0.0200	"	0.100		142	70-130			QM-11
Naphthalene	0.0811	0.0100	"	0.100		81.1	70-130			

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Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

**LCS (B9G2503-BS1)**

Prepared: 07/25/2019 Analyzed: 07/25/2019

n-Butylbenzene	0.0862	0.00200	mg/kg	0.100		86.2	70-130			
n-Propylbenzene	0.0873	0.00200	"	0.100		87.3	70-130			
o-Xylene	0.0851	0.00200	"	0.100		85.1	70-130			
sec-Butylbenzene	0.0861	0.00200	"	0.100		86.1	70-130			
Styrene	0.0869	0.00200	"	0.100		86.9	70-130			
tert-Butylbenzene	0.0873	0.00200	"	0.100		87.3	70-130			
Tetrachloroethene	0.0850	0.00200	"	0.100		85.0	70-130			
Toluene	0.0844	0.00200	"	0.100		84.4	70-130			
trans-1,2-Dichloroethene	0.0945	0.00200	"	0.100		94.5	70-130			
trans-1,3-Dichloropropene	0.0859	0.00200	"	0.100		85.9	70-130			
Trichloroethene	0.0851	0.00200	"	0.100		85.1	70-130			
Trichlorofluoromethane	0.0957	0.00300	"	0.100		95.7	70-130			
Vinyl chloride	0.253	0.00200	"	0.100		253	70-130			QM-11
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

<b>Matrix Spike (B9G2503-MS1)</b>	<b>Source: Y907403-01</b>			<b>Prepared: 07/25/2019 Analyzed: 07/25/2019</b>						
1,1,1,2-Tetrachloroethane	0.0588	0.00200	mg/kg	0.100	ND	58.8	70-130			QM-07
1,1,1-Trichloroethane	0.0580	0.00200	"	0.100	ND	58.0	70-130			QM-07
1,1,2,2-Tetrachloroethane	0.0630	0.00200	"	0.100	ND	63.0	70-130			QM-07
1,1,2-Trichloroethane	0.0632	0.00200	"	0.100	ND	63.2	70-130			QM-07
1,1-Dichloroethane	0.0618	0.00200	"	0.100	ND	61.8	70-130			QM-07
1,1-Dichloroethene	0.0603	0.00200	"	0.100	ND	60.3	70-130			QM-07
1,1-Dichloropropene	0.0562	0.00200	"	0.100	ND	56.2	70-130			QM-07
1,2,3-Trichlorobenzene	0.0500	0.00500	"	0.100	0.000840	49.2	70-130			QM-07
1,2,3-Trichloropropane	0.0856	0.00500	"	0.100	ND	85.6	70-130			
1,2,4-Trichlorobenzene	0.0531	0.00500	"	0.100	ND	53.1	70-130			QM-07
1,2,4-Trimethylbenzene	0.0525	0.00200	"	0.100	ND	52.5	70-130			QM-07
1,2-Dibromo-3-chloropropane	0.0701	0.00500	"	0.100	ND	70.1	70-130			
1,2-Dibromoethane (EDB)	0.0645	0.00200	"	0.100	ND	64.5	70-130			QM-07
1,2-Dichlorobenzene	0.0529	0.00200	"	0.100	ND	52.9	70-130			QM-07
1,2-Dichloroethane	0.0712	0.00200	"	0.100	ND	71.2	70-130			
1,2-Dichloropropane	0.0625	0.00200	"	0.100	ND	62.5	70-130			QM-07
1,3,5-Trimethylbenzene	0.0498	0.00200	"	0.100	ND	49.8	70-130			QM-07
1,3-Dichlorobenzene	0.0523	0.00200	"	0.100	ND	52.3	70-130			QM-07
1,3-Dichloropropane	0.0605	0.00200	"	0.100	ND	60.5	70-130			QM-07
1,4-Dichlorobenzene	0.0510	0.00200	"	0.100	ND	51.0	70-130			QM-07
2,2-Dichloropropane	0.0626	0.00200	"	0.100	ND	62.6	70-130			QM-07
2-Butanone	0.440	0.0100	"	0.500	ND	88.1	70-130			
2-Chlorotoluene	0.0523	0.00200	"	0.100	ND	52.3	70-130			QM-07
2-Hexanone	0.396	0.0100	"	0.500	ND	79.2	70-130			
4-Chlorotoluene	0.0493	0.00200	"	0.100	ND	49.3	70-130			QM-07
4-Isopropyltoluene	0.0493	0.00200	"	0.100	ND	49.3	70-130			QM-07

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Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

<b>Matrix Spike (B9G2503-MS1)</b>	<b>Source: Y907403-01</b>			<b>Prepared: 07/25/2019 Analyzed: 07/25/2019</b>						
4-Methyl-2-pentanone	0.357	0.0100	mg/kg	0.500	ND	71.4	70-130			
Acetone	0.539	0.0200	"	0.500	ND	108	70-130			
Benzene	0.0607	0.00200	"	0.100	ND	60.7	70-130			QM-07
Bromobenzene	0.0564	0.00200	"	0.100	ND	56.4	70-130			QM-07
Bromochloromethane	0.0678	0.00200	"	0.100	ND	67.8	70-130			QM-07
Bromodichloromethane	0.0645	0.00200	"	0.100	ND	64.5	70-130			QM-07
Bromoform	0.0706	0.00200	"	0.100	ND	70.6	70-130			
Bromomethane	ND	0.00200	"	0.100	ND		70-130			QM-11, U
Carbon disulfide	0.0650	0.00500	"	0.100	ND	65.0	70-130			QM-07
Carbon tetrachloride	0.0571	0.00200	"	0.100	ND	57.1	70-130			QM-07
Chlorobenzene	0.0545	0.00200	"	0.100	ND	54.5	70-130			QM-07
Chloroethane	ND	0.00500	"	0.100	ND		70-130			QM-11, U
Chloroform	0.0602	0.00200	"	0.100	ND	60.2	70-130			QM-07
Chloromethane	ND	0.00200	"	0.100	ND		70-130			QM-11, U
cis-1,2-Dichloroethene	0.0625	0.00200	"	0.100	ND	62.5	70-130			QM-07
cis-1,3-Dichloropropene	0.0614	0.00200	"	0.100	ND	61.4	70-130			QM-07
Dibromochloromethane	0.0655	0.00200	"	0.100	ND	65.5	70-130			QM-07
Dibromomethane	0.0680	0.00200	"	0.100	ND	68.0	70-130			QM-07
Ethylbenzene	0.0537	0.00200	"	0.100	ND	53.7	70-130			QM-07
Hexachlorobutadiene	0.0413	0.00500	"	0.100	ND	41.3	70-130			QM-07
Iodomethane	0.0783	0.0150	"	0.100	ND	78.3	70-130			
Isopropylbenzene	0.0557	0.00200	"	0.100	ND	55.7	70-130			QM-07
m,p-Xylene	0.108	0.00400	"	0.200	ND	54.0	70-130			QM-07
Methyl tert-Butyl Ether	0.0941	0.00200	"	0.100	ND	94.1	70-130			
Methylene Chloride	0.0686	0.0200	"	0.100	0.0168	51.7	70-130			QM-07

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

<b>Matrix Spike (B9G2503-MS1)</b>	<b>Source: Y907403-01</b>			<b>Prepared: 07/25/2019 Analyzed: 07/25/2019</b>						
Naphthalene	0.0577	0.0100	mg/kg	0.100	0.000680	57.0	70-130			QM-07
n-Butylbenzene	0.0465	0.00200	"	0.100	ND	46.5	70-130			QM-07
n-Propylbenzene	0.0502	0.00200	"	0.100	ND	50.2	70-130			QM-07
o-Xylene	0.0534	0.00200	"	0.100	ND	53.4	70-130			QM-07
sec-Butylbenzene	0.0466	0.00200	"	0.100	ND	46.6	70-130			QM-07
Styrene	0.0614	0.00200	"	0.100	ND	61.4	70-130			QM-07
tert-Butylbenzene	0.0533	0.00200	"	0.100	ND	53.3	70-130			QM-07
Tetrachloroethene	0.0511	0.00200	"	0.100	ND	51.1	70-130			QM-07
Toluene	0.0561	0.00200	"	0.100	ND	56.1	70-130			QM-07
trans-1,2-Dichloroethene	0.0628	0.00200	"	0.100	ND	62.8	70-130			QM-07
trans-1,3-Dichloropropene	0.0644	0.00200	"	0.100	ND	64.4	70-130			QM-07
Trichloroethene	0.0573	0.00200	"	0.100	ND	57.3	70-130			QM-07
Trichlorofluoromethane	ND	0.00300	"	0.100	ND		70-130			QM-11, U
Vinyl chloride	ND	0.00200	"	0.100	ND		70-130			QM-11, U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9G2503-MSD1)</b>	<b>Source: Y907403-01</b>			<b>Prepared: 07/25/2019 Analyzed: 07/26/2019</b>						
1,1,1,2-Tetrachloroethane	0.0843	0.00200	mg/kg	0.100	ND	84.3	70-130	35.7	20	QR-03
1,1,1-Trichloroethane	0.0941	0.00200	"	0.100	ND	94.1	70-130	47.4	20	QR-03
1,1,2,2-Tetrachloroethane	0.0680	0.00200	"	0.100	ND	68.0	70-130	7.72	20	QM-07
1,1,2-Trichloroethane	0.0728	0.00200	"	0.100	ND	72.8	70-130	14.1	20	
1,1-Dichloroethane	0.0827	0.00200	"	0.100	ND	82.7	70-130	29.0	20	QR-03
1,1-Dichloroethene	0.0883	0.00200	"	0.100	ND	88.3	70-130	37.8	20	QR-03
1,1-Dichloropropene	0.0842	0.00200	"	0.100	ND	84.2	70-130	40.0	20	QR-03
1,2,3-Trichlorobenzene	0.0433	0.00500	"	0.100	0.000840	42.5	70-130	14.4	20	QM-07
1,2,3-Trichloropropane	0.0696	0.00500	"	0.100	ND	69.6	70-130	20.6	20	QM-07, QR-03
1,2,4-Trichlorobenzene	0.0492	0.00500	"	0.100	ND	49.2	70-130	7.58	20	QM-07
1,2,4-Trimethylbenzene	0.0725	0.00200	"	0.100	ND	72.5	70-130	32.0	20	QR-03
1,2-Dibromo-3-chloropropane	0.0641	0.00500	"	0.100	ND	64.1	70-130	8.88	20	QM-07
1,2-Dibromoethane (EDB)	0.0760	0.00200	"	0.100	ND	76.0	70-130	16.4	20	
1,2-Dichlorobenzene	0.0667	0.00200	"	0.100	ND	66.7	70-130	23.1	20	QM-07, QR-03
1,2-Dichloroethane	0.0908	0.00200	"	0.100	ND	90.8	70-130	24.2	20	QR-03
1,2-Dichloropropane	0.0756	0.00200	"	0.100	ND	75.6	70-130	19.0	20	
1,3,5-Trimethylbenzene	0.0729	0.00200	"	0.100	ND	72.9	70-130	37.7	20	QR-03
1,3-Dichlorobenzene	0.0679	0.00200	"	0.100	ND	67.9	70-130	26.0	20	QM-07, QR-03
1,3-Dichloropropane	0.0709	0.00200	"	0.100	ND	70.9	70-130	15.8	20	
1,4-Dichlorobenzene	0.0685	0.00200	"	0.100	ND	68.5	70-130	29.4	20	QM-07, QR-03
2,2-Dichloropropane	0.0998	0.00200	"	0.100	ND	99.8	70-130	45.8	20	QR-03
2-Butanone	0.410	0.0100	"	0.500	ND	82.1	70-130	7.05	20	
2-Chlorotoluene	0.0772	0.00200	"	0.100	ND	77.2	70-130	38.5	20	QR-03
2-Hexanone	0.347	0.0100	"	0.500	ND	69.4	70-130	13.1	20	QM-07

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9G2503-MSD1)</b>	<b>Source: Y907403-01</b>			<b>Prepared: 07/25/2019 Analyzed: 07/26/2019</b>						
4-Chlorotoluene	0.0688	0.00200	mg/kg	0.100	ND	68.8	70-130	33.1	20	QM-07, QR-03
4-Isopropyltoluene	0.0678	0.00200	"	0.100	ND	67.8	70-130	31.6	20	QM-07, QR-03
4-Methyl-2-pentanone	0.327	0.0100	"	0.500	ND	65.4	70-130	8.78	20	QM-07
Acetone	0.607	0.0200	"	0.500	ND	121	70-130	11.8	20	
Benzene	0.0825	0.00200	"	0.100	ND	82.5	70-130	30.4	20	QR-03
Bromobenzene	0.0711	0.00200	"	0.100	ND	71.1	70-130	23.0	20	QR-03
Bromochloromethane	0.0874	0.00200	"	0.100	ND	87.4	70-130	25.3	20	QR-03
Bromodichloromethane	0.0879	0.00200	"	0.100	ND	87.9	70-130	30.7	20	QR-03
Bromoform	0.0826	0.00200	"	0.100	ND	82.6	70-130	15.7	20	
Bromomethane	0.226	0.00200	"	0.100	ND	226	70-130		20	QM-07
Carbon disulfide	0.0358	0.00500	"	0.100	ND	35.8	70-130	57.9	20	QM-07, QR-03
Carbon tetrachloride	0.0958	0.00200	"	0.100	ND	95.8	70-130	50.7	20	QR-03
Chlorobenzene	0.0758	0.00200	"	0.100	ND	75.8	70-130	32.7	20	QR-03
Chloroethane	0.186	0.00500	"	0.100	ND	186	70-130		20	QM-07
Chloroform	0.0871	0.00200	"	0.100	ND	87.1	70-130	36.6	20	QR-03
Chloromethane	0.275	0.00200	"	0.100	ND	275	70-130		20	QM-07
cis-1,2-Dichloroethene	0.0841	0.00200	"	0.100	ND	84.1	70-130	29.4	20	QR-03
cis-1,3-Dichloropropene	0.0733	0.00200	"	0.100	ND	73.3	70-130	17.7	20	
Dibromochloromethane	0.0825	0.00200	"	0.100	ND	82.5	70-130	23.0	20	QR-03
Dibromomethane	0.0853	0.00200	"	0.100	ND	85.3	70-130	22.6	20	QR-03
Ethylbenzene	0.0774	0.00200	"	0.100	ND	77.4	70-130	36.2	20	QR-03
Hexachlorobutadiene	0.0476	0.00500	"	0.100	ND	47.6	70-130	14.2	20	QM-07
Iodomethane	0.109	0.0150	"	0.100	ND	109	70-130	32.7	20	QR-03
Isopropylbenzene	0.0735	0.00200	"	0.100	ND	73.5	70-130	27.6	20	QR-03
m,p-Xylene	0.168	0.00400	"	0.200	ND	84.0	70-130	43.5	20	QR-03

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2503 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B9G2503-MSD1)</b>	<b>Source: Y907403-01</b>			<b>Prepared: 07/25/2019 Analyzed: 07/26/2019</b>						
Methyl tert-Butyl Ether	0.0909	0.00200	mg/kg	0.100	ND	90.9	70-130	3.46	20	
Methylene Chloride	0.0805	0.0200	"	0.100	0.0168	63.7	70-130	16.0	20	QM-07
Naphthalene	0.0450	0.0100	"	0.100	0.000680	44.4	70-130	24.6	20	QM-07, QR-03
n-Butylbenzene	0.0599	0.00200	"	0.100	ND	59.9	70-130	25.3	20	QM-07, QR-03
n-Propylbenzene	0.0711	0.00200	"	0.100	ND	71.1	70-130	34.5	20	QR-03
o-Xylene	0.0752	0.00200	"	0.100	ND	75.2	70-130	33.9	20	QR-03
sec-Butylbenzene	0.0651	0.00200	"	0.100	ND	65.1	70-130	33.0	20	QM-07, QR-03
Styrene	0.0753	0.00200	"	0.100	ND	75.3	70-130	20.5	20	QM-07
tert-Butylbenzene	0.0698	0.00200	"	0.100	ND	69.8	70-130	26.9	20	QM-07, QR-03
Tetrachloroethene	0.0817	0.00200	"	0.100	ND	81.7	70-130	46.2	20	QR-03
Toluene	0.0795	0.00200	"	0.100	ND	79.5	70-130	34.6	20	QR-03
trans-1,2-Dichloroethene	0.0884	0.00200	"	0.100	ND	88.4	70-130	33.8	20	QR-03
trans-1,3-Dichloropropene	0.0769	0.00200	"	0.100	ND	76.9	70-130	17.8	20	
Trichloroethene	0.0843	0.00200	"	0.100	ND	84.3	70-130	38.2	20	QR-03
Trichlorofluoromethane	0.0865	0.00300	"	0.100	ND	86.5	70-130		20	
Vinyl chloride	0.221	0.00200	"	0.100	ND	221	70-130		20	QM-11
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9G2509 - EPA 3580</b>										
<b>Blank (B9G2509-BLK1)</b>										
					Prepared: 07/25/2019 Analyzed: 07/25/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	41		"	50.0		82.4	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G2509 - EPA 3580**

**LCS (B9G2509-BS1)**

Prepared: 07/25/2019 Analyzed: 07/25/2019

Diesel (C10-C28)	1230	50.0	mg/kg	1000		123	70-130			
Surrogate: o-Terphenyl	52		"	50.0		104	50-150			

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G2509 - EPA 3580**

<b>Matrix Spike (B9G2509-MS1)</b>	<b>Source: Y907403-03</b>			Prepared: 07/25/2019 Analyzed: 07/25/2019						
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130			
Surrogate: <i>o</i> -Terphenyl	46		"	50.0		91.5	50-150			

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: CR42/CR13  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9G2509 - EPA 3580**

<b>Matrix Spike Dup (B9G2509-MSD1)</b>	<b>Source: Y907403-03</b>			Prepared: 07/25/2019 Analyzed: 07/25/2019						
Diesel (C10-C28)	1310	50.0	mg/kg	1000	ND	131	70-130	15.2	35	QM-07
Surrogate: o-Terphenyl	55		"	50.0		111	50-150			

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6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: CR42/CR13  
Project: DCP - CR42 & CR13

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### Notes and Definitions

- U Sample is Non-Detect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- A-01 BATCH BLANK RECOVERED ABOVE THE RL FOR THIS ANALYTE HOWEVER, ASSOCIATED SAMPLES ARE NON-DETECT FOR THIS ANALYTE
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

September 11, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. September 10, 2019. This project is associated with Origins project number Y909123-01.

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



Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH39@17.5'	Y909123-01	Soil	September 10, 2019 9:15	09/10/2019 17:00
BH39@19'	Y909123-02	Soil	September 10, 2019 9:20	09/10/2019 17:00
BH40@16'	Y909123-03	Soil	September 10, 2019 11:00	09/10/2019 17:00
BH40@23.5'	Y909123-04	Soil	September 10, 2019 11:15	09/10/2019 17:00
BH40@30'	Y909123-05	Soil	September 10, 2019 12:00	09/10/2019 17:00
BH41@19.5'	Y909123-06	Soil	September 10, 2019 14:45	09/10/2019 17:00
BH41@23.5'	Y909123-07	Soil	September 10, 2019 15:00	09/10/2019 17:00

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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196123

**ORIGINS**  
 LABORATORY, INC

page  of

Client: TASMAN GSD  
 Address: 6855 W. 19TH AVE  
 Project Manager: B. HUMPHREY  
 Project Name: CR42/CR13  
 Project Number: CR42/CR13  
 Samples Collected By: J. MATHIS B. GIBBEL

Telephone Number:   
 Email Address: bhumphrey@tasman-gsd.com

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	Alt Sample #	Other	G		D	
BH39 @ 17.5	9/10/19	0915	1 X					X				X	X	1	
BH39 @ 19		0920	1 X					X				X	X	2	
BH40 @ 16		1100	1 X					X				X	X	3	
BH40 @ 30		1115	1 X					X				X	X	4	
BH40 @ 30		1200	1 X					X				X	X	5	
BH41 @ 19.5		1445	1 X					X				X	X	6	
BH41 @ 23.5		1500	1 X					X				X	X	7	
														8	
														9	
														10	
Relinquished By: <u>[Signature]</u>	Date: 9/10/19	Time: 1700	Time: 1700	Received By: <u>[Signature]</u>	Date: 9/10/19	Time: 1700	Time: 1700	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>							

Date Results Needed

4.9

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 9109123

Client: Tasman  
 Client Project ID: CR42 + 13

Checklist Completed by: JG

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Date/time completed: 9/10/2019

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

Cooler Number/Temperature: 1 / 4.9 °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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 9/10/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH39@17.5'**  
**9/10/2019 9:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909123-01 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	2.31	0.0500	mg/kg	25	B9I1014	KDK	09/10/2019	09/11/2019	
Toluene	5.11	0.0500	"	"	"	KDK	"	"	
Ethylbenzene	0.683	0.0500	"	"	"	KDK	"	"	
Xylenes, total	4.85	0.0500	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	158	5.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	219	50.0	mg/kg	1	B9I1013	KDK	09/10/2019	09/10/2019	
Surrogate: o-Terphenyl	85.7 %	50-150			"	"	"	"	

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

BH39@19'

9/10/2019 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y909123-02 (Soil)

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B91014	KDK	09/10/2019	09/11/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B91013	KDK	09/10/2019	09/10/2019	U
Surrogate: o-Terphenyl	84.5 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH40@16'**  
**9/10/2019 11:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909123-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B911014	KDK	09/10/2019	09/11/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911013	KDK	09/10/2019	09/10/2019	U
Surrogate: o-Terphenyl	75.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH40@23.5'**  
**9/10/2019 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909123-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B911014	KDK	09/10/2019	09/11/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911013	KDK	09/10/2019	09/10/2019	U
Surrogate: o-Terphenyl	90.2 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH40@30'**  
**9/10/2019 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909123-05 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B911014	KDK	09/10/2019	09/11/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911013	KDK	09/10/2019	09/10/2019	U
Surrogate: o-Terphenyl	83.1 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH41@19.5'**  
**9/10/2019 2:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909123-06 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B911014	KDK	09/10/2019	09/11/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911013	KDK	09/10/2019	09/10/2019	U
Surrogate: o-Terphenyl	71.0 %	50-150			"	"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH41@23.5'**  
**9/10/2019 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909123-07 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.0500	mg/kg	25	B911014	KDK	09/10/2019	09/11/2019	U
Toluene	ND	0.0500	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.0500	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.0500	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	5.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911013	KDK	09/10/2019	09/10/2019	U
Surrogate: o-Terphenyl	71.9 %	50-150			"	"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9I1013 - EPA 3580</b>										
<b>Blank (B9I1013-BLK1)</b>										
					Prepared: 09/10/2019 Analyzed: 09/10/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	50		"	50.0		100	50-150			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9I1013 - EPA 3580**

**LCS (B9I1013-BS1)**

Prepared: 09/10/2019 Analyzed: 09/10/2019

Diesel (C10-C28)	874	50.0	mg/kg	1000		87.4	70-130			
Surrogate: o-Terphenyl	55		"	50.0		109	50-150			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9I1013 - EPA 3580**

<b>Matrix Spike (B9I1013-MS1)</b>	<b>Source: Y909120-01</b>			Prepared: 09/10/2019 Analyzed: 09/10/2019						
Diesel (C10-C28)	824	50.0	mg/kg	1000	ND	82.4	70-130			
Surrogate: <i>o</i> -Terphenyl	49		"	50.0		97.7	50-150			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9I1013 - EPA 3580</b>										
<b>Matrix Spike Dup (B9I1013-MSD1)</b>		<b>Source: Y909120-01</b>			Prepared: 09/10/2019 Analyzed: 09/10/2019					
Diesel (C10-C28)	806	50.0	mg/kg	1000	ND	80.6	70-130	2.24	35	
Surrogate: o-Terphenyl	47		"	50.0		94.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9I1014 - EPA 5030 (soil)**

**Blank (B9I1014-BLK1)**

Prepared: 09/10/2019 Analyzed: 09/10/2019

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1014 - EPA 5030 (soil)**

**LCS (B9I1014-BS1)**

Prepared: 09/10/2019 Analyzed: 09/11/2019

Benzene	0.0890	0.00200	mg/kg	0.100		89.0	70-130			
Toluene	0.0895	0.00200	"	0.100		89.5	70-130			
Ethylbenzene	0.0885	0.00200	"	0.100		88.5	70-130			
m,p-Xylene	0.178	0.00400	"	0.200		88.8	70-130			
o-Xylene	0.0920	0.00200	"	0.100		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	70-130			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1014 - EPA 5030 (soil)**

<b>Matrix Spike (B9I1014-MS1)</b>	<b>Source: Y909122-01</b>			<b>Prepared: 09/10/2019 Analyzed: 09/11/2019</b>						
Benzene	0.0961	0.00200	mg/kg	0.100	ND	96.1	70-130			
Toluene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
Ethylbenzene	0.0960	0.00200	"	0.100	0.00450	91.5	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	0.0150	88.9	70-130			
o-Xylene	0.0999	0.00200	"	0.100	ND	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B911014 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B911014-MSD1)</b>	<b>Source: Y909122-01</b>			<b>Prepared: 09/10/2019 Analyzed: 09/11/2019</b>						
Benzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	7.43	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	9.46	20	
Ethylbenzene	0.108	0.00200	"	0.100	0.00450	104	70-130	11.9	20	
m,p-Xylene	0.217	0.00400	"	0.200	0.0150	101	70-130	11.7	20	
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	5.87	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.6</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.6</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>96.4</i>	<i>70-130</i>			

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.*

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

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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.

Origins Laboratory, Inc.



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

---

Jen Pellegrini For Noelle Doyle Mathis, President



September 12, 2019

**Tasman Geosciences**

**Brian Humphrey**

**6899 Pecos Street, Unit C**

**Denver CO 80211**

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. September 11, 2019. This project is associated with Origins project number Y909149-01.

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH42@18'	Y909149-01	Soil	September 11, 2019 11:00	09/11/2019 17:05
BH42@21.5'	Y909149-02	Soil	September 11, 2019 11:15	09/11/2019 17:05
BH43@20'	Y909149-03	Soil	September 11, 2019 13:00	09/11/2019 17:05
BH43@21.5'	Y909149-04	Soil	September 11, 2019 13:05	09/11/2019 17:05
BH44@13'	Y909149-05	Soil	September 11, 2019 14:44	09/11/2019 17:05
BH44@21.5'	Y909149-06	Soil	September 11, 2019 15:00	09/11/2019 17:05

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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page 1 of 1



1909149

Client: Tasman DCP  
 Address: 6855 W. 117th  
 Telephone Number: \_\_\_\_\_  
 Email Address: bhumphrey@tasman-ge.com

Project Manager: B. HUMPHREY  
 Project Name: CR42 / CR13  
 Project Number: CR42 / 13  
 Samples Collected By: SWATHS / D.C. ABDEL

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	Pk Summa #		
BH420 1B'	9/11/19	11:00	1	X				X			B T E L E R X O C	1
BH420 2.5'	9/11/19	11:15	1	X				X			X X X	2
BH430 20'	9/11/19	13:00	1	X				X			X X X	3
BH430 2.5'	9/11/19	13:05	1	X				X			X X X	4
BH440 15'	9/11/19	14:44	1	X				X			X X X	5
BH440 21.5'	9/11/19	15:00	1	X				X			X X X	6
												7
												8
												9
												10
Relinquished By: <u>[Signature]</u>	Date: 9/11/19	Time: 1705		Received By: <u>[Signature]</u>	Date: 9/11/19	Time: 1705		Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr				
Relinquished By: _____	Date: _____	Time: _____		Received By: _____	Date: _____	Time: _____		Standard: <input type="checkbox"/>				

28 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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 909149

Client: Tasman

Client Project ID: CR 42 + 13

Checklist Completed by: JG

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

Date/time completed: 9/11/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 28 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 9/11/19

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

BH42@18'

9/11/2019 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y909149-01 (Soil)

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B911107	KDK	09/11/2019	09/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911113	KDK	09/11/2019	09/11/2019	U
Surrogate: o-Terphenyl	59.6 %	50-150			"	"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH42@21.5'**  
**9/11/2019 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909149-02 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B911107	KDK	09/11/2019	09/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911113	KDK	09/11/2019	09/11/2019	U
Surrogate: o-Terphenyl	77.3 %	50-150			"	"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH43@20'**

**9/11/2019 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909149-03 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B911107	KDK	09/11/2019	09/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130				"	"	"	
Surrogate: Toluene-d8	104 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130				"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911113	KDK	09/11/2019	09/11/2019	U
Surrogate: o-Terphenyl	71.5 %	50-150				"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH43@21.5'**  
**9/11/2019 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909149-04 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B911107	KDK	09/11/2019	09/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911113	KDK	09/11/2019	09/11/2019	U
Surrogate: o-Terphenyl	66.6 %	50-150			"	"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

BH44@13'

9/11/2019 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y909149-05 (Soil)

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B911107	KDK	09/11/2019	09/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130				"	"	"	
Surrogate: Toluene-d8	104 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130				"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911113	KDK	09/11/2019	09/11/2019	U
Surrogate: o-Terphenyl	78.2 %	50-150				"	"	"	

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH44@21.5'**  
**9/11/2019 3:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909149-06 (Soil)**

**BTEX/TVPH by EPA 8260D**

Benzene	ND	0.00200	mg/kg	1	B911107	KDK	09/11/2019	09/11/2019	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

**Diesel Range Organics (DRO/TEPH) by EPA 8015D**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B911113	KDK	09/11/2019	09/11/2019	U
Surrogate: o-Terphenyl	81.5 %	50-150			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9I1107 - EPA 5030 (soil)</b>										
<b>Blank (B9I1107-BLK1)</b>										
					Prepared: 09/11/2019 Analyzed: 09/11/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1107 - EPA 5030 (soil)**

**LCS (B9I1107-BS1)**

Prepared: 09/11/2019 Analyzed: 09/11/2019

Benzene	0.105	0.00200	mg/kg	0.100		105	70-130			
Toluene	0.0990	0.00200	"	0.100		99.0	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.196	0.00400	"	0.200		97.8	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B911107 - EPA 5030 (soil)

Matrix Spike (B911107-MS1)	Source: Y909130-01			Prepared: 09/11/2019 Analyzed: 09/11/2019						
Benzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0890	0.00200	"	0.100	ND	89.0	70-130			
m,p-Xylene	0.199	0.00400	"	0.200	0.00184	98.8	70-130			
o-Xylene	0.101	0.00200	"	0.100	0.000420	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B911107 - EPA 5030 (soil)

Matrix Spike Dup (B911107-MSD1)	Source: Y909130-01			Prepared: 09/11/2019 Analyzed: 09/11/2019						
Benzene	0.0774	0.00200	mg/kg	0.100	ND	77.4	70-130	30.7	20	QR-02
Toluene	0.0784	0.00200	"	0.100	ND	78.4	70-130	24.8	20	QR-02
Ethylbenzene	0.0800	0.00200	"	0.100	ND	80.0	70-130	10.6	20	
m,p-Xylene	0.146	0.00400	"	0.200	0.00184	72.1	70-130	30.9	20	QR-02
o-Xylene	0.0741	0.00200	"	0.100	0.000420	73.7	70-130	30.9	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9I1113 - EPA 3580</b>										
<b>Blank (B9I1113-BLK1)</b>										
					Prepared: 09/11/2019 Analyzed: 09/11/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	40		"	50.0		80.0	50-150			

Origins Laboratory, Inc.



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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9I1113 - EPA 3580**

**LCS (B9I1113-BS1)**

Prepared: 09/11/2019 Analyzed: 09/11/2019

Diesel (C10-C28)	801	50.0	mg/kg	1000		80.1	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.2	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B9I1113 - EPA 3580**

<b>Matrix Spike (B9I1113-MS1)</b>	<b>Source: Y909149-01</b>			Prepared: 09/11/2019 Analyzed: 09/11/2019						
Diesel (C10-C28)	828	50.0	mg/kg	1000	ND	82.8	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.0	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Extractable Petroleum Hydrocarbons by 8015D - 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 B911113 - EPA 3580**

<b>Matrix Spike Dup (B911113-MSD1)</b>	<b>Source: Y909149-01</b>			Prepared: 09/11/2019 Analyzed: 09/11/2019						
Diesel (C10-C28)	847	50.0	mg/kg	1000	ND	84.7	70-130	2.29	35	
Surrogate: o-Terphenyl	42		"	50.0		83.7	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

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### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

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Jen Pellegrini For Noelle Doyle Mathis, President

## Appendix C

### Groundwater Sample Laboratory Analytical Reports

- Origins Laboratory Job #: Y906518
- Origins Laboratory Job #: Y907424
- Origins Laboratory Job #: Y908150
- Origins Laboratory Job #: Y909197



July 01, 2019

**Tasman Geosciences**

**Brian Humphrey**

**6899 Pecos Street, Unit C**

**Denver**

**CO 80211**

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. June 28, 2019. This project is associated with Origins project number Y906518-01.

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW16	Y906518-01	Water	June 28, 2019 10:40	06/28/2019 16:40
MW17	Y906518-02	Water	June 28, 2019 11:15	06/28/2019 16:40
MW18	Y906518-03	Water	June 28, 2019 11:05	06/28/2019 16:40
MW19	Y906518-04	Water	June 28, 2019 10:55	06/28/2019 16:40
MW20	Y906518-05	Water	June 28, 2019 11:25	06/28/2019 16:40

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.*



Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4906518 Client: Tasman  
 Client Project ID: DCP - CR42 + CR13  
 Checklist Completed by: [Signature] Shipped Via: Pick-up  
 Date/time completed: 6-28-19 (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 / 5.4 = c 1 °c 1 °c 1 °c 1 °c (Describe)  
 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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6-28-19

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16**

**6/28/2019 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-01 (Water)**

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/28/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16**

**6/28/2019 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-01 (Water)**

**VOC by EPA 8260D**

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/28/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16**

**6/28/2019 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906518-01 (Water)**

**VOC by EPA 8260D**

Chloroform	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/28/2019	U
Chloromethane	ND	1.00	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	U
m,p-Xylene	ND	2.00	"	"	"	KDK	"	"	U
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	U
o-Xylene	ND	1.00	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16**

**6/28/2019 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906518-01 (Water)**

**VOC by EPA 8260D**

tert-Butylbenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/28/2019	U
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17**

**6/28/2019 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-02 (Water)**

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/28/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17**

**6/28/2019 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-02 (Water)**

**VOC by EPA 8260D**

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/28/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17**

**6/28/2019 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-02 (Water)**

**VOC by EPA 8260D**

Chloroform	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/28/2019	U
Chloromethane	ND	1.00	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	U
m,p-Xylene	ND	2.00	"	"	"	KDK	"	"	U
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	U
o-Xylene	ND	1.00	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17**

**6/28/2019 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-02 (Water)**

**VOC by EPA 8260D**

tert-Butylbenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/28/2019	U
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	89.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18**

**6/28/2019 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-03 (Water)**

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18**

**6/28/2019 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-03 (Water)**

**VOC by EPA 8260D**

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18**

**6/28/2019 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906518-03 (Water)**

**VOC by EPA 8260D**

Chloroform	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
Chloromethane	ND	1.00	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	U
m,p-Xylene	ND	2.00	"	"	"	KDK	"	"	U
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	U
o-Xylene	ND	1.00	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18**

**6/28/2019 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906518-03 (Water)**

**VOC by EPA 8260D**

tert-Butylbenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19**

**6/28/2019 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-04 (Water)**

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19**

**6/28/2019 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-04 (Water)**

**VOC by EPA 8260D**

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19**

**6/28/2019 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906518-04 (Water)**

**VOC by EPA 8260D**

Chloroform	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
Chloromethane	ND	1.00	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	U
m,p-Xylene	ND	2.00	"	"	"	KDK	"	"	U
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	U
o-Xylene	ND	1.00	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19**

**6/28/2019 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906518-04 (Water)**

**VOC by EPA 8260D**

tert-Butylbenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20**

**6/28/2019 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-05 (Water)**

**VOC by EPA 8260D**

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
1,1,1-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1,2-Trichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
1,1-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,3-Trichloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	KDK	"	"	U
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	KDK	"	"	U
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloroethane	ND	1.00	"	"	"	KDK	"	"	U
1,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
1,3-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20**

**6/28/2019 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y906518-05 (Water)**

**VOC by EPA 8260D**

1,4-Dichlorobenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
2,2-Dichloropropane	ND	1.00	"	"	"	KDK	"	"	U
2-Butanone	ND	5.00	"	"	"	KDK	"	"	U
2-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
2-Hexanone	ND	5.00	"	"	"	KDK	"	"	U
4-Chlorotoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Isopropyltoluene	ND	1.00	"	"	"	KDK	"	"	U
4-Methyl-2-pentanone	ND	5.00	"	"	"	KDK	"	"	U
Acetone	ND	8.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Bromobenzene	ND	1.00	"	"	"	KDK	"	"	U
Bromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromodichloromethane	ND	1.00	"	"	"	KDK	"	"	U
Bromoform	ND	1.00	"	"	"	KDK	"	"	U
Bromomethane	ND	1.00	"	"	"	KDK	"	"	U
Carbon disulfide	ND	5.00	"	"	"	KDK	"	"	U
Carbon tetrachloride	ND	1.00	"	"	"	KDK	"	"	U
Chlorobenzene	ND	1.00	"	"	"	KDK	"	"	U
Chloroethane	ND	1.00	"	"	"	KDK	"	"	U

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20**

**6/28/2019 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906518-05 (Water)**

**VOC by EPA 8260D**

Chloroform	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
Chloromethane	ND	1.00	"	"	"	KDK	"	"	U
cis-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
cis-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Dibromochloromethane	ND	1.00	"	"	"	KDK	"	"	U
Dibromomethane	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Hexachlorobutadiene	ND	5.00	"	"	"	KDK	"	"	U
Iodomethane	ND	10.0	"	"	"	KDK	"	"	U
Isopropylbenzene	ND	1.00	"	"	"	KDK	"	"	U
m,p-Xylene	ND	2.00	"	"	"	KDK	"	"	U
Methylene Chloride	ND	5.00	"	"	"	KDK	"	"	U
Methyl tert-Butyl Ether	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
n-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
n-Propylbenzene	ND	1.00	"	"	"	KDK	"	"	U
o-Xylene	ND	1.00	"	"	"	KDK	"	"	U
sec-Butylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Styrene	ND	1.00	"	"	"	KDK	"	"	U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20**

**6/28/2019 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906518-05 (Water)**

**VOC by EPA 8260D**

tert-Butylbenzene	ND	1.00	ug/L	1	B9F2804	KDK	06/28/2019	06/29/2019	U
Tetrachloroethene	ND	1.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,2-Dichloroethene	ND	1.00	"	"	"	KDK	"	"	U
trans-1,3-Dichloropropene	ND	1.00	"	"	"	KDK	"	"	U
Trichloroethene	ND	1.00	"	"	"	KDK	"	"	U
Trichlorofluoromethane	ND	1.00	"	"	"	KDK	"	"	U
Vinyl chloride	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	90.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

**Blank (B9F2804-BLK1)**

Prepared: 06/28/2019 Analyzed: 06/28/2019

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
1,1,1-Trichloroethane	ND	1.00	"							U
1,1,2,2-Tetrachloroethane	ND	1.00	"							U
1,1,2-Trichloroethane	ND	1.00	"							U
1,1-Dichloroethane	ND	1.00	"							U
1,1-Dichloroethene	ND	1.00	"							U
1,1-Dichloropropene	ND	1.00	"							U
1,2,3-Trichlorobenzene	ND	5.00	"							U
1,2,3-Trichloropropane	ND	5.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	1.00	"							U
1,2-Dibromo-3-chloropropane	ND	5.00	"							U
1,2-Dibromoethane (EDB)	ND	1.00	"							U
1,2-Dichlorobenzene	ND	1.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
1,3-Dichlorobenzene	ND	1.00	"							U
1,3-Dichloropropane	ND	1.00	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
2,2-Dichloropropane	ND	1.00	"							U
2-Butanone	ND	5.00	"							U
2-Chlorotoluene	ND	1.00	"							U
2-Hexanone	ND	5.00	"							U
4-Chlorotoluene	ND	1.00	"							U
4-Isopropyltoluene	ND	1.00	"							U

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

**Blank (B9F2804-BLK1)**

Prepared: 06/28/2019 Analyzed: 06/28/2019

4-Methyl-2-pentanone	ND	5.00	ug/L							U
Acetone	ND	8.00	"							U
Benzene	ND	1.00	"							U
Bromobenzene	ND	1.00	"							U
Bromochloromethane	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
Carbon disulfide	ND	5.00	"							U
Carbon tetrachloride	ND	1.00	"							U
Chlorobenzene	ND	1.00	"							U
Chloroethane	ND	1.00	"							U
Chloroform	ND	1.00	"							U
Chloromethane	ND	1.00	"							U
cis-1,2-Dichloroethene	ND	1.00	"							U
cis-1,3-Dichloropropene	ND	1.00	"							U
Dibromochloromethane	ND	1.00	"							U
Dibromomethane	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Hexachlorobutadiene	ND	5.00	"							U
Iodomethane	ND	10.0	"							U
Isopropylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Methylene Chloride	ND	5.00	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Naphthalene	ND	4.00	"							U

Origins Laboratory, Inc.



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Tasman Geosciences  
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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

**Blank (B9F2804-BLK1)**

Prepared: 06/28/2019 Analyzed: 06/28/2019

n-Butylbenzene	ND	1.00	ug/L							U
n-Propylbenzene	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

**LCS (B9F2804-BS1)**

Prepared: 06/28/2019 Analyzed: 06/28/2019

1,1,1,2-Tetrachloroethane	49.7	1.00	ug/L	50.0		99.4	70-130			
1,1,1-Trichloroethane	58.2	1.00	"	50.0		116	70-130			
1,1,2,2-Tetrachloroethane	49.3	1.00	"	50.0		98.7	70-130			
1,1,2-Trichloroethane	51.1	1.00	"	50.0		102	70-130			
1,1-Dichloroethane	50.5	1.00	"	50.0		101	70-130			
1,1-Dichloroethene	50.8	1.00	"	50.0		102	70-130			
1,1-Dichloropropene	57.6	1.00	"	50.0		115	70-130			
1,2,3-Trichlorobenzene	49.6	5.00	"	50.0		99.2	70-130			
1,2,3-Trichloropropane	52.3	5.00	"	50.0		105	70-130			
1,2,4-Trichlorobenzene	55.5	5.00	"	50.0		111	70-130			
1,2,4-Trimethylbenzene	48.6	1.00	"	50.0		97.2	70-130			
1,2-Dibromo-3-chloropropane	55.4	5.00	"	50.0		111	70-130			
1,2-Dibromoethane (EDB)	54.9	1.00	"	50.0		110	70-130			
1,2-Dichlorobenzene	47.9	1.00	"	50.0		95.9	70-130			
1,2-Dichloroethane	54.7	1.00	"	50.0		109	70-130			
1,2-Dichloropropane	52.9	1.00	"	50.0		106	70-130			
1,3,5-Trimethylbenzene	48.8	1.00	"	50.0		97.6	70-130			
1,3-Dichlorobenzene	47.5	1.00	"	50.0		95.0	70-130			
1,3-Dichloropropane	52.4	1.00	"	50.0		105	70-130			
1,4-Dichlorobenzene	46.2	1.00	"	50.0		92.5	70-130			
2,2-Dichloropropane	59.4	1.00	"	50.0		119	70-130			
2-Butanone	284	5.00	"	250		114	70-130			
2-Chlorotoluene	48.2	1.00	"	50.0		96.3	70-130			
2-Hexanone	259	5.00	"	250		103	70-130			
4-Chlorotoluene	48.9	1.00	"	50.0		97.8	70-130			
4-Isopropyltoluene	48.2	1.00	"	50.0		96.4	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

**LCS (B9F2804-BS1)**

Prepared: 06/28/2019 Analyzed: 06/28/2019

4-Methyl-2-pentanone	256	5.00	ug/L	250		102	70-130			
Acetone	286	8.00	"	250		114	70-130			
Benzene	52.6	1.00	"	50.0		105	70-130			
Bromobenzene	46.9	1.00	"	50.0		93.8	70-130			
Bromochloromethane	60.4	1.00	"	50.0		121	70-130			
Bromodichloromethane	58.8	1.00	"	50.0		118	70-130			
Bromoform	57.8	1.00	"	50.0		116	70-130			
Bromomethane	43.6	1.00	"	50.0		87.2	70-130			
Carbon disulfide	48.2	5.00	"	50.0		96.4	70-130			
Carbon tetrachloride	58.0	1.00	"	50.0		116	70-130			
Chlorobenzene	48.3	1.00	"	50.0		96.5	70-130			
Chloroethane	50.4	1.00	"	50.0		101	70-130			
Chloroform	55.6	1.00	"	50.0		111	70-130			
Chloromethane	38.5	1.00	"	50.0		77.1	70-130			
cis-1,2-Dichloroethene	54.5	1.00	"	50.0		109	70-130			
cis-1,3-Dichloropropene	55.6	1.00	"	50.0		111	70-130			
Dibromochloromethane	57.7	1.00	"	50.0		115	70-130			
Dibromomethane	66.6	1.00	"	50.0		133	70-130			QM-11
Ethylbenzene	46.8	1.00	"	50.0		93.7	70-130			
Hexachlorobutadiene	48.1	5.00	"	50.0		96.2	70-130			
Iodomethane	56.0	10.0	"	50.0		112	70-130			
Isopropylbenzene	49.7	1.00	"	50.0		99.4	70-130			
m,p-Xylene	95.6	2.00	"	100		95.6	70-130			
Methylene Chloride	49.6	5.00	"	50.0		99.2	70-130			
Methyl tert-Butyl Ether	65.2	1.00	"	50.0		130	70-130			
Naphthalene	59.0	4.00	"	50.0		118	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

**LCS (B9F2804-BS1)**

Prepared: 06/28/2019 Analyzed: 06/28/2019

n-Butylbenzene	47.8	1.00	ug/L	50.0		95.5	70-130			
n-Propylbenzene	47.7	1.00	"	50.0		95.3	70-130			
o-Xylene	51.4	1.00	"	50.0		103	70-130			
sec-Butylbenzene	48.0	1.00	"	50.0		96.0	70-130			
Styrene	51.4	1.00	"	50.0		103	70-130			
tert-Butylbenzene	49.4	1.00	"	50.0		98.9	70-130			
Tetrachloroethene	52.0	1.00	"	50.0		104	70-130			
Toluene	46.0	1.00	"	50.0		92.1	70-130			
trans-1,2-Dichloroethene	51.9	1.00	"	50.0		104	70-130			
trans-1,3-Dichloropropene	58.4	1.00	"	50.0		117	70-130			
Trichloroethene	54.8	1.00	"	50.0		110	70-130			
Trichlorofluoromethane	57.7	1.00	"	50.0		115	70-130			
Vinyl chloride	44.9	1.00	"	50.0		89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

<b>Matrix Spike (B9F2804-MS1)</b>	<b>Source: Y906479-01</b>			<b>Prepared: 06/28/2019 Analyzed: 06/28/2019</b>						
1,1,1,2-Tetrachloroethane	43.5	1.00	ug/L	50.0	ND	87.0	70-130			
1,1,1-Trichloroethane	50.5	1.00	"	50.0	ND	101	70-130			
1,1,2,2-Tetrachloroethane	41.6	1.00	"	50.0	ND	83.3	70-130			
1,1,2-Trichloroethane	41.3	1.00	"	50.0	ND	82.6	70-130			
1,1-Dichloroethane	44.5	1.00	"	50.0	ND	88.9	70-130			
1,1-Dichloroethene	43.7	1.00	"	50.0	ND	87.5	70-130			
1,1-Dichloropropene	50.0	1.00	"	50.0	ND	100	70-130			
1,2,3-Trichlorobenzene	33.5	5.00	"	50.0	0.750	65.4	70-130			QM-07
1,2,3-Trichloropropane	44.0	5.00	"	50.0	ND	88.1	70-130			
1,2,4-Trichlorobenzene	38.4	5.00	"	50.0	0.500	75.8	70-130			
1,2,4-Trimethylbenzene	40.6	1.00	"	50.0	ND	81.2	70-130			
1,2-Dibromo-3-chloropropane	48.0	5.00	"	50.0	ND	96.1	70-130			
1,2-Dibromoethane (EDB)	45.9	1.00	"	50.0	ND	91.8	70-130			
1,2-Dichlorobenzene	38.7	1.00	"	50.0	0.100	77.1	70-130			
1,2-Dichloroethane	47.2	1.00	"	50.0	0.300	93.9	70-130			
1,2-Dichloropropane	46.6	1.00	"	50.0	ND	93.3	70-130			
1,3,5-Trimethylbenzene	40.1	1.00	"	50.0	ND	80.1	70-130			
1,3-Dichlorobenzene	38.4	1.00	"	50.0	0.070	76.6	70-130			
1,3-Dichloropropane	44.4	1.00	"	50.0	ND	88.8	70-130			
1,4-Dichlorobenzene	37.4	1.00	"	50.0	ND	74.7	70-130			
2,2-Dichloropropane	52.8	1.00	"	50.0	ND	106	70-130			
2-Butanone	242	5.00	"	250	ND	96.8	70-130			
2-Chlorotoluene	40.2	1.00	"	50.0	ND	80.5	70-130			
2-Hexanone	221	5.00	"	250	ND	88.6	70-130			
4-Chlorotoluene	40.8	1.00	"	50.0	0.090	81.4	70-130			
4-Isopropyltoluene	37.5	1.00	"	50.0	ND	75.0	70-130			

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 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

<b>Matrix Spike (B9F2804-MS1)</b>	<b>Source: Y906479-01</b>			<b>Prepared: 06/28/2019 Analyzed: 06/28/2019</b>						
4-Methyl-2-pentanone	217	5.00	ug/L	250	2.72	85.8	70-130			
Acetone	244	8.00	"	250	4.34	95.9	70-130			
Benzene	46.1	1.00	"	50.0	ND	92.2	70-130			
Bromobenzene	39.6	1.00	"	50.0	ND	79.2	70-130			
Bromochloromethane	52.0	1.00	"	50.0	ND	104	70-130			
Bromodichloromethane	51.0	1.00	"	50.0	ND	102	70-130			
Bromoform	48.8	1.00	"	50.0	ND	97.6	70-130			
Bromomethane	32.0	1.00	"	50.0	ND	64.1	70-130			QM-07
Carbon disulfide	41.2	5.00	"	50.0	ND	82.3	70-130			
Carbon tetrachloride	50.1	1.00	"	50.0	ND	100	70-130			
Chlorobenzene	41.4	1.00	"	50.0	ND	82.7	70-130			
Chloroethane	36.7	1.00	"	50.0	ND	73.3	70-130			
Chloroform	49.0	1.00	"	50.0	ND	98.0	70-130			
Chloromethane	27.4	1.00	"	50.0	ND	54.9	70-130			QM-07
cis-1,2-Dichloroethene	48.1	1.00	"	50.0	ND	96.2	70-130			
cis-1,3-Dichloropropene	48.1	1.00	"	50.0	ND	96.1	70-130			
Dibromochloromethane	48.6	1.00	"	50.0	ND	97.1	70-130			
Dibromomethane	56.5	1.00	"	50.0	ND	113	70-130			
Ethylbenzene	40.2	1.00	"	50.0	ND	80.5	70-130			
Hexachlorobutadiene	23.2	5.00	"	50.0	0.660	45.2	70-130			QM-07
Iodomethane	49.4	10.0	"	50.0	ND	98.7	70-130			
Isopropylbenzene	41.8	1.00	"	50.0	ND	83.7	70-130			
m,p-Xylene	82.2	2.00	"	100	ND	82.2	70-130			
Methylene Chloride	45.2	5.00	"	50.0	ND	90.5	70-130			
Methyl tert-Butyl Ether	56.9	1.00	"	50.0	1.10	112	70-130			
Naphthalene	46.5	4.00	"	50.0	0.680	91.6	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

<b>Matrix Spike (B9F2804-MS1)</b>	<b>Source: Y906479-01</b>			<b>Prepared: 06/28/2019 Analyzed: 06/28/2019</b>						
n-Butylbenzene	34.8	1.00	ug/L	50.0	ND	69.6	70-130			QM-07
n-Propylbenzene	39.3	1.00	"	50.0	ND	78.6	70-130			
o-Xylene	44.4	1.00	"	50.0	ND	88.8	70-130			
sec-Butylbenzene	36.8	1.00	"	50.0	ND	73.6	70-130			
Styrene	43.9	1.00	"	50.0	0.180	87.5	70-130			
tert-Butylbenzene	40.2	1.00	"	50.0	ND	80.4	70-130			
Tetrachloroethene	43.8	1.00	"	50.0	ND	87.5	70-130			
Toluene	39.8	1.00	"	50.0	ND	79.6	70-130			
trans-1,2-Dichloroethene	44.9	1.00	"	50.0	ND	89.9	70-130			
trans-1,3-Dichloropropene	49.9	1.00	"	50.0	0.160	99.5	70-130			
Trichloroethene	48.0	1.00	"	50.0	ND	95.9	70-130			
Trichlorofluoromethane	40.6	1.00	"	50.0	ND	81.3	70-130			
Vinyl chloride	31.2	1.00	"	50.0	ND	62.4	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.6	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Brian Humphrey  
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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

Matrix Spike Dup (B9F2804-MSD1)	Source: Y906479-01			Prepared: 06/28/2019 Analyzed: 06/29/2019						
1,1,1,2-Tetrachloroethane	90.9	1.00	ug/L	100	ND	90.9	70-130	70.5	20	QR-02
1,1,1-Trichloroethane	81.5	1.00	"	100	ND	81.5	70-130	47.0	20	QR-02
1,1,2,2-Tetrachloroethane	94.3	1.00	"	100	ND	94.3	70-130	77.5	20	QR-02
1,1,2-Trichloroethane	93.6	1.00	"	100	ND	93.6	70-130	77.5	20	QR-02
1,1-Dichloroethane	82.3	1.00	"	100	ND	82.3	70-130	59.7	20	QR-02
1,1-Dichloroethene	67.1	1.00	"	100	ND	67.1	70-130	42.1	20	QM-07, QR-03
1,1-Dichloropropene	78.9	1.00	"	100	ND	78.9	70-130	44.7	20	QR-02
1,2,3-Trichlorobenzene	93.4	5.00	"	100	0.750	92.7	70-130	94.5	20	QR-02
1,2,3-Trichloropropane	99.2	5.00	"	100	ND	99.2	70-130	77.0	20	QR-02
1,2,4-Trichlorobenzene	101	5.00	"	100	0.500	100	70-130	89.7	20	QR-02
1,2,4-Trimethylbenzene	80.6	1.00	"	100	ND	80.6	70-130	65.9	20	QR-02
1,2-Dibromo-3-chloropropane	116	5.00	"	100	ND	116	70-130	83.2	20	QR-02
1,2-Dibromoethane (EDB)	101	1.00	"	100	ND	101	70-130	74.8	20	QR-02
1,2-Dichlorobenzene	86.4	1.00	"	100	0.100	86.3	70-130	76.4	20	QR-02
1,2-Dichloroethane	103	1.00	"	100	0.300	103	70-130	74.2	20	QR-02
1,2-Dichloropropane	97.7	1.00	"	100	ND	97.7	70-130	70.8	20	QR-02
1,3,5-Trimethylbenzene	77.2	1.00	"	100	ND	77.2	70-130	63.4	20	QR-02
1,3-Dichlorobenzene	83.5	1.00	"	100	0.070	83.4	70-130	74.0	20	QR-02
1,3-Dichloropropane	97.2	1.00	"	100	ND	97.2	70-130	74.6	20	QR-02
1,4-Dichlorobenzene	79.8	1.00	"	100	ND	79.8	70-130	72.4	20	QR-02
2,2-Dichloropropane	63.2	1.00	"	100	ND	63.2	70-130	18.0	20	QM-07, QR-03
2-Butanone	622	5.00	"	500	ND	124	70-130	87.9	20	QR-02
2-Chlorotoluene	78.5	1.00	"	100	ND	78.5	70-130	64.4	20	QR-02
2-Hexanone	564	5.00	"	500	ND	113	70-130	87.3	20	QR-02
4-Chlorotoluene	79.3	1.00	"	100	0.090	79.2	70-130	64.2	20	QR-02

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

<b>Matrix Spike Dup (B9F2804-MSD1)</b>	<b>Source: Y906479-01</b>			<b>Prepared: 06/28/2019 Analyzed: 06/29/2019</b>						
4-Isopropyltoluene	76.1	1.00	ug/L	100	ND	76.1	70-130	67.9	20	QR-02
4-Methyl-2-pentanone	546	5.00	"	500	2.72	109	70-130	86.2	20	QR-02
Acetone	636	8.00	"	500	4.34	126	70-130	89.0	20	QR-02
Benzene	84.7	1.00	"	100	ND	84.7	70-130	59.0	20	QR-02
Bromobenzene	82.1	1.00	"	100	ND	82.1	70-130	69.8	20	QR-02
Bromochloromethane	108	1.00	"	100	ND	108	70-130	70.1	20	QR-02
Bromodichloromethane	110	1.00	"	100	ND	110	70-130	73.2	20	QR-02
Bromoform	111	1.00	"	100	ND	111	70-130	78.0	20	QR-02
Bromomethane	67.7	1.00	"	100	ND	67.7	70-130	71.5	20	QM-07, QR-03
Carbon disulfide	63.8	5.00	"	100	ND	63.8	70-130	43.1	20	QM-07, QR-03
Carbon tetrachloride	79.7	1.00	"	100	ND	79.7	70-130	45.7	20	QR-02
Chlorobenzene	81.8	1.00	"	100	ND	81.8	70-130	65.7	20	QR-02
Chloroethane	67.9	1.00	"	100	ND	67.9	70-130	59.7	20	QM-07, QR-03
Chloroform	94.4	1.00	"	100	ND	94.4	70-130	63.3	20	QR-02
Chloromethane	55.9	1.00	"	100	ND	55.9	70-130	68.3	20	QM-07, QR-03
cis-1,2-Dichloroethene	88.9	1.00	"	100	ND	88.9	70-130	59.6	20	QR-02
cis-1,3-Dichloropropene	93.4	1.00	"	100	ND	93.4	70-130	64.2	20	QR-02
Dibromochloromethane	108	1.00	"	100	ND	108	70-130	76.3	20	QR-02
Dibromomethane	123	1.00	"	100	ND	123	70-130	74.3	20	QR-02
Ethylbenzene	73.9	1.00	"	100	ND	73.9	70-130	59.0	20	QR-02
Hexachlorobutadiene	73.1	5.00	"	100	0.660	72.4	70-130	104	20	QR-02
Iodomethane	85.3	10.0	"	100	ND	85.3	70-130	53.4	20	QR-02
Isopropylbenzene	75.2	1.00	"	100	ND	75.2	70-130	57.0	20	QR-02
m,p-Xylene	153	2.00	"	200	ND	76.4	70-130	60.1	20	QR-02

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2804 - EPA 5030B (Water)**

Matrix Spike Dup (B9F2804-MSD1)	Source: Y906479-01			Prepared: 06/28/2019 Analyzed: 06/29/2019						
Methylene Chloride	104	5.00	ug/L	100	ND	104	70-130	78.4	20	QR-02
Methyl tert-Butyl Ether	126	1.00	"	100	1.10	125	70-130	75.7	20	QR-02
Naphthalene	119	4.00	"	100	0.680	119	70-130	87.9	20	QR-02
n-Butylbenzene	71.7	1.00	"	100	ND	71.7	70-130	69.3	20	QR-02
n-Propylbenzene	71.7	1.00	"	100	ND	71.7	70-130	58.4	20	QR-02
o-Xylene	86.3	1.00	"	100	ND	86.3	70-130	64.1	20	QR-02
sec-Butylbenzene	71.6	1.00	"	100	ND	71.6	70-130	64.1	20	QR-02
Styrene	85.1	1.00	"	100	0.180	84.9	70-130	63.8	20	QR-02
tert-Butylbenzene	76.6	1.00	"	100	ND	76.6	70-130	62.3	20	QR-02
Tetrachloroethene	70.7	1.00	"	100	ND	70.7	70-130	47.1	20	QR-02
Toluene	73.1	1.00	"	100	ND	73.1	70-130	59.0	20	QR-02
trans-1,2-Dichloroethene	76.3	1.00	"	100	ND	76.3	70-130	51.7	20	QR-02
trans-1,3-Dichloropropene	103	1.00	"	100	0.160	103	70-130	69.2	20	QR-02
Trichloroethene	83.6	1.00	"	100	ND	83.6	70-130	54.2	20	QR-02
Trichlorofluoromethane	68.5	1.00	"	100	ND	68.5	70-130	51.0	20	QM-07, QR-03
Vinyl chloride	56.3	1.00	"	100	ND	56.3	70-130	57.4	20	QM-07, QR-03
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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.*

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

---

### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



July 29, 2019

**Tasman Geosciences**

**Brian Humphrey**

**6899 Pecos Street, Unit C**

**Denver**

**CO 80211**

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. July 26, 2019. This project is associated with Origins project number Y907424-01.

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH31/MW21	Y907424-01	Water	July 26, 2019 9:00	07/26/2019 13:45
BH34/MW22	Y907424-02	Water	July 26, 2019 10:30	07/26/2019 13:45
BH35/MW23	Y907424-03	Water	July 26, 2019 9:55	07/26/2019 13:45
BH36/MW24	Y907424-04	Water	July 26, 2019 10:45	07/26/2019 13:45
BH37/MW25	Y907424-05	Water	July 26, 2019 12:10	07/26/2019 13:45
BH38/MW26	Y907424-06	Water	July 26, 2019 12:05	07/26/2019 13:45
Dupe-A	Y907424-07	Water	July 26, 2019 14:00	07/26/2019 13:45

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.*



Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1907424

Client: Tasman

Client Project ID: DXP CR 42/13

Checklist Completed by: JG

Shipped Via: HD

Date/time completed: 7/26/2019

(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 / 14.2 °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"/>		Same Day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analyses or samples with HTAs due within 48 hours preserved <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water - Is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with Na2O2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):	<u>Last Sample time was recorded after the time received</u>			

<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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

7/26/19  
 Date/Time Reviewed

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.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH31/MW21**  
**7/26/2019 9:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907424-01 (Water)**

**BTEX by EPA 8260D**

Benzene	927	20.0	ug/L	20	B9G2901	KDK	07/29/2019	07/29/2019	
Toluene	681	20.0	"	"	"	KDK	"	"	
Ethylbenzene	51.1	1.00	"	1	"	KDK	"	07/29/2019	
Xylenes, total	521	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %			70-130		"	"	"	

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH34/MW22**  
**7/26/2019 10:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907424-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9G2901	KDK	07/29/2019	07/29/2019	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 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH35/MW23**  
**7/26/2019 9:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907424-03 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9G2901	KDK	07/29/2019	07/29/2019	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	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130			"	"	"	"	

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH36/MW24**

**7/26/2019 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907424-04 (Water)**

**BTEX by EPA 8260D**

Benzene	6.39	1.00	ug/L	1	B9G2901	KDK	07/29/2019	07/29/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH37/MW25**

**7/26/2019 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y907424-05 (Water)

**BTEX by EPA 8260D**

Benzene	176	1.00	ug/L	1	B9G2901	KDK	07/29/2019	07/29/2019	
Toluene	150	1.00	"	"	"	KDK	"	"	
Ethylbenzene	9.20	1.00	"	"	"	KDK	"	"	
Xylenes, total	56.5	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	99.5 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %			70-130		"	"	"	

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH38/MW26**

**7/26/2019 12:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907424-06 (Water)**

**BTEX by EPA 8260D**

Benzene	117	1.00	ug/L	1	B9G2901	KDK	07/29/2019	07/29/2019	
Toluene	37.1	1.00	"	"	"	KDK	"	"	
Ethylbenzene	2.36	1.00	"	"	"	KDK	"	"	
Xylenes, total	16.8	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %			70-130		"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Dupe-A**

**7/26/2019 2:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907424-07 (Water)**

**BTEX by EPA 8260D**

Benzene	117	1.00	ug/L	1	B9G2901	KDK	07/29/2019	07/29/2019	
Toluene	39.7	1.00	"	"	"	KDK	"	"	
Ethylbenzene	2.49	1.00	"	"	"	KDK	"	"	
Xylenes, total	17.7	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %			70-130		"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2901 - EPA 5030B (Water)**

**Blank (B9G2901-BLK1)**

Prepared: 07/29/2019 Analyzed: 07/29/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2901 - EPA 5030B (Water)**

**LCS (B9G2901-BS1)**

Prepared: 07/29/2019 Analyzed: 07/29/2019

Benzene	52.7	1.00	ug/L	50.0		105	70-130			
Toluene	52.8	1.00	"	50.0		106	70-130			
Ethylbenzene	55.2	1.00	"	50.0		110	70-130			
m,p-Xylene	112	2.00	"	100		112	70-130			
o-Xylene	55.1	1.00	"	50.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9G2901 - EPA 5030B (Water)**

<b>Matrix Spike (B9G2901-MS1)</b>	<b>Source: Y907417-06</b>			<b>Prepared: 07/29/2019 Analyzed: 07/29/2019</b>						
Benzene	61.6	1.00	ug/L	50.0	ND	123	70-130			
Toluene	63.1	1.00	"	50.0	ND	126	70-130			
Ethylbenzene	63.7	1.00	"	50.0	ND	127	70-130			
m,p-Xylene	129	2.00	"	100	0.210	129	70-130			
o-Xylene	62.7	1.00	"	50.0	ND	125	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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.*

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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

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

**Batch B9G2901 - EPA 5030B (Water)**

<b>Matrix Spike Dup (B9G2901-MSD1)</b>	<b>Source: Y907417-06</b>			<b>Prepared: 07/29/2019 Analyzed: 07/29/2019</b>						
Benzene	63.9	1.00	ug/L	50.0	ND	128	70-130	3.81	20	
Toluene	64.3	1.00	"	50.0	ND	129	70-130	1.92	20	
Ethylbenzene	64.3	1.00	"	50.0	ND	129	70-130	0.813	20	
m,p-Xylene	129	2.00	"	100	0.210	129	70-130	0.488	20	
o-Xylene	63.1	1.00	"	50.0	ND	126	70-130	0.716	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

---

**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

---

Jen Pellegrini For Noelle Doyle Mathis, President



August 12, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. August 09, 2019. This project is associated with Origins project number Y908150-01.

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

Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW03/BH15 - 080919	Y908150-01	Water	August 9, 2019 11:28	08/09/2019 13:35
MW04/BH16 - 080919	Y908150-02	Water	August 9, 2019 11:19	08/09/2019 13:35
MW07/BH25 - 080919	Y908150-03	Water	August 9, 2019 11:33	08/09/2019 13:35
MW09 - 080919	Y908150-04	Water	August 9, 2019 10:40	08/09/2019 13:35
MW10 - 080919	Y908150-05	Water	August 9, 2019 11:05	08/09/2019 13:35
MW11 - 080919	Y908150-06	Water	August 9, 2019 11:10	08/09/2019 13:35
MW12 - 080919	Y908150-07	Water	August 9, 2019 11:25	08/09/2019 13:35
MW13 - 080919	Y908150-08	Water	August 9, 2019 11:09	08/09/2019 13:35
MW14 - 080919	Y908150-09	Water	August 9, 2019 10:51	08/09/2019 13:35
MW15 - 080919	Y908150-10	Water	August 9, 2019 10:45	08/09/2019 13:35
MW16 - 080919	Y908150-11	Water	August 9, 2019 11:38	08/09/2019 13:35
MW17 - 080919	Y908150-12	Water	August 9, 2019 10:35	08/09/2019 13:35
MW18 - 080919	Y908150-13	Water	August 9, 2019 10:26	08/09/2019 13:35
MW19 - 080919	Y908150-14	Water	August 9, 2019 10:18	08/09/2019 13:35

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW20 - 080919	Y908150-15	Water	August 9, 2019 10:57	08/09/2019 13:35
MW21/BH31 - 080919	Y908150-16	Water	August 9, 2019 10:09	08/09/2019 13:35
MW22/BH34 - 080919	Y908150-17	Water	August 9, 2019 10:00	08/09/2019 13:35
MW24/BH36 - 080919	Y908150-18	Water	August 9, 2019 9:43	08/09/2019 13:35
MW25/BH37 - 080919	Y908150-19	Water	August 9, 2019 10:05	08/09/2019 13:35
MW26/BH38 - 080919	Y908150-20	Water	August 9, 2019 9:36	08/09/2019 13:35
Duplicate A - 080919	Y908150-21	Water	August 9, 2019 0:00	08/09/2019 13:35
Duplicate B - 080919	Y908150-22	Water	August 9, 2019 0:00	08/09/2019 13:35

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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page 1 of 3



Client: DCP - Midstream/Tasman  
 Address: 6855 W 119th Ave Bonfield  
 CO: 80020  
 Telephone Number: 484-794-3328  
 Email Address: bhumphrey@tasman-geo.com

Project Manager: B. Humphrey  
 Project Name: CA 42 / CR 13  
 Project Number: N/A  
 Samples Collected By: Brian G. Morgan S

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	Conister #	Other		Date	Time		
MW03/BH15-080919	8/9/19	1128	3	X				X									
MW04/BH16-080919		1119	1														
MW07/BH25-080919		1133	1														
MW09-080919		1040	1														
MW10-080919		1105	1														
MW11-080919		1110	1														
MW12-080919		1125	1														
MW13-080919		1109	1														
MW14-080919		1051	1														
MW15-080919		1045	1														
Relinquished By: <i>[Signature]</i>	Date: 8/9/19	Time: 1335	Time: 1335	Received By: <i>[Signature]</i>	Date: 8-9-19	Time: 1335	Received By: <i>[Signature]</i>	Date: 8-9-19	Time: 1335	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>							

Date Results Needed

4.2

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

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

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page 2 of 3



YASISO

Client: DCP Midstream/Tasman  
 Address: 6855 W 119<sup>th</sup> Ave. Steamfield, CO 80020  
 Telephone Number: 484-794-3328  
 Email Address: bhumphrey@tasman-geo.com

Project Manager: B. Humphrey  
 Project Name: CR 42/CR13  
 Project Number: N/A  
 Samples Collected By: Brian G. Morgan S

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analyst	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #	Other			
MW16-080919	8/9/19	1138	3	X				X						BT EX
MW17-080919		1035												
MW18-080919		1036												
MW19-080919		1018												
MW20-080919		1057												
MW21-080919		1009												
MW22-080919		1000												
MW24-080919		0943												
MW25-080919		1005												
MW26-080919		0936												
Relinquished By: <u>[Signature]</u>	Date: <u>8/9/19</u>	Time: <u>1335</u>	Time: <u>1335</u>	Received By: <u>[Signature]</u>	Date: <u>8-9-19</u>	Time: <u>1338</u>	Time: <u>1338</u>	Received By: <u>[Signature]</u>	Date: <u>8-9-19</u>	Time: <u>1338</u>	Time: <u>1338</u>	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr	<input checked="" type="checkbox"/> Standards	

4.2 Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y908150 Client: Tasman  
 Client Project ID: CR42/13  
 Checklist Completed by: JG Shipped Via: HD  
 Date/time completed: 8/9/2019 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply): X Soil/Solid X Water Other:  
 Cooler Number/Temperature: 1/4.2 °C / °C / °C / °C (Describe)  
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8/12/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW03/BH15 - 080919**  
**8/9/2019 11:28:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-01 (Water)**

**BTEX by EPA 8260D**

Benzene	<b>5410</b>	100	ug/L	100	B9H0909	KDK	08/09/2019	08/12/2019	
Toluene	<b>352</b>	100	"	"	"	KDK	"	"	
Ethylbenzene	<b>11.0</b>	1.00	"	1	"	KDK	"	08/09/2019	
Xylenes, total	<b>468</b>	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	08/12/2019	
Surrogate: Toluene-d8	101 %			70-130		"	"	08/09/2019	
Surrogate: 4-Bromofluorobenzene	114 %			70-130		"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW04/BH16 - 080919**  
**8/9/2019 11:19:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-02 (Water)**

**BTEX by EPA 8260D**

Benzene	11600	100	ug/L	100	B9H0909	KDK	08/09/2019	08/12/2019	
Toluene	439	100	"	"	"	KDK	"	"	
Ethylbenzene	10.2	1.00	"	1	"	KDK	"	08/09/2019	
Xylenes, total	897	100	"	100	"	KDK	"	08/12/2019	
Surrogate: 1,2-Dichloroethane-d4	99.8 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	08/09/2019	
Surrogate: 4-Bromofluorobenzene	113 %			70-130		"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW07/BH25 - 080919**  
**8/9/2019 11:33:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-03 (Water)**

**BTEX by EPA 8260D**

Benzene	253	10.0	ug/L	10	B9H0909	KDK	08/09/2019	08/12/2019	
Toluene	1.93	1.00	"	1	"	KDK	"	08/09/2019	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	22.4	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW09 - 080919**  
**8/9/2019 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-04 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/12/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	08/09/2019	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW10 - 080919**  
**8/9/2019 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-05 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	90.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW11 - 080919**  
**8/9/2019 11:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-06 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW12 - 080919**  
**8/9/2019 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-07 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW13 - 080919**  
**8/9/2019 11:09:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-08 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"	"	

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW14 - 080919**  
**8/9/2019 10:51:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-09 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"	"	

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW15 - 080919**  
**8/9/2019 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-10 (Water)**

**BTEX by EPA 8260D**

Benzene	16.4	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"	"	

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW16 - 080919**  
**8/9/2019 11:38:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-11 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW17 - 080919**  
**8/9/2019 10:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-12 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW18 - 080919**  
**8/9/2019 10:26:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-13 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"	"	"	

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW19 - 080919**  
**8/9/2019 10:18:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-14 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	92.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW20 - 080919**  
**8/9/2019 10:57:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-15 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW21/BH31 - 080919**  
**8/9/2019 10:09:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-16 (Water)**

**BTEX by EPA 8260D**

Benzene	115	10.0	ug/L	10	B9H0909	KDK	08/09/2019	08/12/2019	
Toluene	40.0	1.00	"	1	"	KDK	"	08/09/2019	
Ethylbenzene	1.06	1.00	"	"	"	KDK	"	"	
Xylenes, total	119	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	70-130			"	"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW22/BH34 - 080919**  
**8/9/2019 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-17 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"	

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW24/BH36 - 080919**  
**8/9/2019 9:43:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-18 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"	"	"	

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW25/BH37 - 080919**  
**8/9/2019 10:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-19 (Water)**

**BTEX by EPA 8260D**

Benzene	112	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	
Toluene	9.14	1.00	"	"	"	KDK	"	"	
Ethylbenzene	2.78	1.00	"	"	"	KDK	"	"	
Xylenes, total	18.9	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	92.0 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %			70-130		"	"	"	

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**MW26/BH38 - 080919**  
**8/9/2019 9:36:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-20 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B9H0909	KDK	08/09/2019	08/09/2019	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	91.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Duplicate A - 080919**  
**8/9/2019 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-21 (Water)**

**BTEX by EPA 8260D**

Benzene	42.8	10.0	ug/L	10	B9H0904	KDK	08/09/2019	08/12/2019	
Toluene	31.8	1.00	"	1	"	KDK	"	08/09/2019	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	99.5	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	117 %	70-130			"	"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Duplicate B - 080919**  
**8/9/2019 12:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y908150-22 (Water)**

**BTEX by EPA 8260D**

Benzene	<b>5780</b>	100	ug/L	100	B9H0904	KDK	08/09/2019	08/12/2019	
Toluene	<b>428</b>	100	"	"	"	KDK	"	"	
Ethylbenzene	<b>11.1</b>	1.00	"	1	"	KDK	"	08/10/2019	
Xylenes, total	<b>478</b>	1.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	08/12/2019	
Surrogate: Toluene-d8	104 %			70-130		"	"	08/10/2019	
Surrogate: 4-Bromofluorobenzene	116 %			70-130		"	"	"	

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9H0904 - EPA 5030B (Water)**

**Blank (B9H0904-BLK1)**

Prepared: 08/09/2019 Analyzed: 08/09/2019

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	58		"	62.5		92.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	74		"	62.5		119	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9H0904 - EPA 5030B (Water)**

**LCS (B9H0904-BS1)**

Prepared: 08/09/2019 Analyzed: 08/09/2019

Benzene	51.0	1.00	ug/L	50.0		102	70-130			
Toluene	52.1	1.00	"	50.0		104	70-130			
Ethylbenzene	51.8	1.00	"	50.0		104	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
o-Xylene	51.4	1.00	"	50.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	72		"	62.5		115	70-130			

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Tasman Geosciences  
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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9H0904 - EPA 5030B (Water)**

<b>Matrix Spike (B9H0904-MS1)</b>	<b>Source: Y908124-01</b>			<b>Prepared: 08/09/2019 Analyzed: 08/09/2019</b>						
Benzene	51.0	1.00	ug/L	50.0	ND	102	70-130			
Toluene	50.5	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	50.6	1.00	"	50.0	0.090	101	70-130			
m,p-Xylene	98.5	2.00	"	100	0.220	98.3	70-130			
o-Xylene	50.9	1.00	"	50.0	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		113	70-130			

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Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9H0904 - EPA 5030B (Water)**

<b>Matrix Spike Dup (B9H0904-MSD1)</b>	<b>Source: Y908124-01</b>			<b>Prepared: 08/09/2019 Analyzed: 08/09/2019</b>						
Benzene	49.2	1.00	ug/L	50.0	ND	98.3	70-130	3.71	20	
Toluene	49.2	1.00	"	50.0	ND	98.4	70-130	2.59	20	
Ethylbenzene	48.6	1.00	"	50.0	0.090	96.9	70-130	4.02	20	
m,p-Xylene	95.2	2.00	"	100	0.220	95.0	70-130	3.34	20	
o-Xylene	49.8	1.00	"	50.0	ND	99.5	70-130	2.34	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	72		"	62.5		115	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9H0909 - EPA 5030B (Water)**

**Blank (B9H0909-BLK1)**

Prepared: 08/09/2019 Analyzed: 08/09/2019

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	57		"	62.5		91.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	74		"	62.5		118	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9H0909 - EPA 5030B (Water)**

**LCS (B9H0909-BS1)**

Prepared: 08/09/2019 Analyzed: 08/09/2019

Benzene	49.0	1.00	ug/L	50.0		98.0	70-130			
Toluene	50.1	1.00	"	50.0		100	70-130			
Ethylbenzene	49.2	1.00	"	50.0		98.5	70-130			
m,p-Xylene	96.9	2.00	"	100		96.9	70-130			
o-Xylene	50.0	1.00	"	50.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		88.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9H0909 - EPA 5030B (Water)**

<b>Matrix Spike (B9H0909-MS1)</b>	<b>Source: Y908150-04</b>			<b>Prepared: 08/09/2019 Analyzed: 08/09/2019</b>						
Benzene	48.8	1.00	ug/L	50.0	ND	97.6	70-130			
Toluene	48.6	1.00	"	50.0	0.150	96.9	70-130			
Ethylbenzene	47.7	1.00	"	50.0	0.080	95.2	70-130			
m,p-Xylene	94.3	2.00	"	100	0.430	93.9	70-130			
o-Xylene	49.0	1.00	"	50.0	0.120	97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9H0909 - EPA 5030B (Water)**

<b>Matrix Spike Dup (B9H0909-MSD1)</b>	<b>Source: Y908150-04</b>			<b>Prepared: 08/09/2019 Analyzed: 08/09/2019</b>						
Benzene	50.4	1.00	ug/L	50.0	ND	101	70-130	3.24	20	
Toluene	51.1	1.00	"	50.0	0.150	102	70-130	5.05	20	
Ethylbenzene	50.4	1.00	"	50.0	0.080	101	70-130	5.62	20	
m,p-Xylene	98.3	2.00	"	100	0.430	97.9	70-130	4.15	20	
o-Xylene	51.5	1.00	"	50.0	0.120	103	70-130	5.05	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	72		"	62.5		114	70-130			

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

---

**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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---

Jen Pellegrini For Noelle Doyle Mathis, President

September 16, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - DCP - CR42 & CR13**

**Project Number - [none]**

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. September 13, 2019. This project is associated with Origins project number Y909197-01.

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



Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH39/MW27 - 091319	Y909197-01	Water	September 13, 2019 13:23	09/13/2019 15:35
BH40/MW28 - 091319	Y909197-02	Water	September 13, 2019 13:51	09/13/2019 15:35
BH41/MW29 - 091319	Y909197-03	Water	September 13, 2019 14:24	09/13/2019 15:35
BH42/MW30 -091319	Y909197-04	Water	September 13, 2019 13:31	09/13/2019 15:35
BH43/MW31 -091319	Y909197-05	Water	September 13, 2019 13:08	09/13/2019 15:35
BH44/MW32 -091319	Y909197-06	Water	September 13, 2019 13:16	09/13/2019 15:35

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 7909197

Client: Tasman

Client Project ID: DCP CR 42 / 13

Checklist Completed by: JG

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

Date/time completed: 9/13/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.9 °C /          °C /          °C /          °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 9/13/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH39/MW27 - 091319**  
**9/13/2019 1:23:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909197-01 (Water)**

**BTEX by EPA 8260D**

Benzene	<b>5460</b>	100	ug/L	100	B9I1305	KDK	09/13/2019	09/16/2019	
Toluene	<b>4730</b>	100	"	"	"	KDK	"	"	
Ethylbenzene	<b>209</b>	4.00	"	4	"	KDK	"	09/13/2019	
Xylenes, total	<b>1360</b>	4.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	96.0 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH40/MW28 - 091319**  
**9/13/2019 1:51:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909197-02 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B91305	KDK	09/13/2019	09/14/2019	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	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH41/MW29 - 091319**  
**9/13/2019 2:24:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909197-03 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B91305	KDK	09/13/2019	09/14/2019	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	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH42/MW30 -091319**  
**9/13/2019 1:31:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909197-04 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B91305	KDK	09/13/2019	09/14/2019	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	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH43/MW31 -091319**  
**9/13/2019 1:08:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909197-05 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B91305	KDK	09/13/2019	09/14/2019	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	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**BH44/MW32 -091319**  
**9/13/2019 1:16:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y909197-06 (Water)**

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B911305	KDK	09/13/2019	09/14/2019	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	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1305 - EPA 5030B (Water)**

**Blank (B9I1305-BLK1)**

Prepared: 09/13/2019 Analyzed: 09/13/2019

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	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B911305 - EPA 5030B (Water)**

**LCS (B911305-BS1)**

Prepared: 09/13/2019 Analyzed: 09/13/2019

Benzene	45.7	1.00	ug/L	50.0		91.4	70-130			
Toluene	45.0	1.00	"	50.0		90.0	70-130			
Ethylbenzene	44.4	1.00	"	50.0		88.9	70-130			
m,p-Xylene	90.5	2.00	"	100		90.5	70-130			
o-Xylene	47.8	1.00	"	50.0		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B911305 - EPA 5030B (Water)**

<b>Matrix Spike (B911305-MS1)</b>	<b>Source: Y909177-26</b>			<b>Prepared: 09/13/2019 Analyzed: 09/13/2019</b>						
Benzene	46.8	1.00	ug/L	50.0	ND	93.6	70-130			
Toluene	46.9	1.00	"	50.0	ND	93.9	70-130			
Ethylbenzene	46.8	1.00	"	50.0	0.090	93.3	70-130			
m,p-Xylene	95.5	2.00	"	100	0.260	95.2	70-130			
o-Xylene	49.5	1.00	"	50.0	ND	99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Brian Humphrey  
 Project Number: [none]  
 Project: DCP - CR42 & CR13

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B911305 - EPA 5030B (Water)**

<b>Matrix Spike Dup (B911305-MSD1)</b>	<b>Source: Y909177-26</b>			<b>Prepared: 09/13/2019 Analyzed: 09/13/2019</b>						
Benzene	47.8	1.00	ug/L	50.0	ND	95.5	70-130	2.01	20	
Toluene	48.1	1.00	"	50.0	ND	96.3	70-130	2.52	20	
Ethylbenzene	47.4	1.00	"	50.0	0.090	94.6	70-130	1.32	20	
m,p-Xylene	97.1	2.00	"	100	0.260	96.9	70-130	1.70	20	
o-Xylene	50.3	1.00	"	50.0	ND	101	70-130	1.60	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Brian Humphrey  
Project Number: [none]  
Project: DCP - CR42 & CR13

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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.

Origins Laboratory, Inc.



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---

Jen Pellegrini For Noelle Doyle Mathis, President