

**DCP - CR42/CR13 SITE
DECEMBER 2019
FORM 27 SUPPLEMENTAL SUMMARY REPORT**

ATTACHMENTS

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- 1 Groundwater Elevations Summary
- 2 Groundwater Analytical Results Summary

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- 1 Site Location Map
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Attachments

- A Groundwater Sample Laboratory Analytical Reports
- Origins Laboratory Job #: Y911318 (November 19, 2019)
 - Origins Laboratory Job #: Y912016 (December 2, 2019)
 - Origins Laboratory Job #: Y911028 (December 3, 2019)

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP CR42 and 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 ¹ (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
MW01	12/2/2019	16.93	15.95	0.98	16.92	4,994.44	4,978.25	-0.27
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
MW02	12/2/2019	15.35	14.98	0.37	18.06	4,993.50	4,978.43	-0.59
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
MW03	12/2/2019	12.70			15.81	4,992.60	4,979.90	-0.51
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
MW04	12/2/2019	14.24			14.74	4,993.02	4,978.78	-0.46
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
MW05	12/2/2019	14.91			15.69	4,993.36	4,978.45	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
MW06	12/2/2019	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

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SUMMARY OF GROUNDWATER ELEVATION DATA
DCP CR42 and 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 ¹ (feet)
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
MW07	12/2/2019	12.45			15.09	4,992.74	4,980.29	-0.46
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
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
MW08	12/2/2019	17.25	14.21	3.04	17.78	4,993.26	4,978.29	-0.48
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
MW09	11/19/2019	14.28			22.92	4,990.30	4,976.02	-0.22
MW09	12/2/2019	14.40			22.92	4,990.30	4,975.90	-0.12
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
MW10	12/2/2019	14.00			23.00	4,990.59	4,976.59	-0.38
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
MW11	12/2/2019	12.55			23.05	4,991.03	4,978.48	-0.52
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
MW12	12/2/2019	11.70			24.93	4,991.16	4,979.46	-0.48
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
MW13	12/2/2019	13.43			18.60	4,990.68	4,977.25	-0.34
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
MW14	12/2/2019	15.13	15.12	0.01	18.30	4,991.64	4,976.52	0.13
MW14	12/3/2019	15.72	15.17	0.55	18.30	4,991.64	4,976.33	-0.18
MW15	5/28/2019	13.53			18.24	4,992.24	4,978.71	NA

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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 ¹ (feet)
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
MW15	12/2/2019	15.62			18.24	4,992.24	4,976.62	-0.53
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
MW16	12/2/2019	11.36			18.04	4,994.89	4,983.53	-0.71
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
MW17	11/19/2019	14.98			18.25	4,992.79	4,977.81	-0.33
MW17	12/2/2019	15.06			18.25	4,992.79	4,977.73	-0.08
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
MW18	11/19/2019	15.08			18.10	4,992.87	4,977.79	-0.42
MW18	12/2/2019	15.17			18.10	4,992.87	4,977.70	-0.09
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
MW19	11/19/2019	15.46			18.41	4,993.16	4,977.70	-0.60
MW19	12/2/2019	15.59			18.41	4,993.16	4,977.57	-0.13
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
MW20	12/2/2019	14.57			18.23	4,993.74	4,979.17	-0.13
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
MW21	12/2/2019	18.39			20.45	4,994.76	4,976.37	-0.69
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
MW22	12/2/2019	19.75			20.15	4,994.81	4,975.06	-0.04
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
MW23	12/2/2019	20.01			21.14	4,994.81	4,974.80	0.00
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
MW24	12/2/2019	19.91	17.55	2.36	20.50	4,994.32	-4973.82	-9949.99

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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 ¹ (feet)
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
MW25	12/2/2019	19.68			20.55	4,993.89	4,974.21	-0.24
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
MW26	12/2/2019	16.74			19.88	4,994.36	4,977.62	-0.49
MW27	9/12/2019	19.79			20.35	4,992.71	4,972.92	NA
MW27	12/2/2019	19.98			20.35	4,992.71	4,972.73	-0.19
MW28	9/12/2019	21.45			27.80	4,994.09	4,972.64	NA
MW28	12/2/2019	21.51			27.80	4,994.09	4,972.58	-0.06
MW29	9/12/2019	19.93			25.35	4,994.04	4,974.11	NA
MW29	12/2/2019	20.00			25.35	4,994.04	4,974.04	-0.07
MW30	9/12/2019	17.45			22.78	4,994.15	4,976.70	NA
MW30	12/2/2019	17.35			22.78	4,994.15	4,976.80	0.10
MW31	9/12/2019	20.31			22.35	4,991.29	4,970.98	NA
MW31	11/19/2019	20.61			22.35	4,991.29	4,970.68	-0.30
MW31	12/2/2019	20.76			22.35	4,991.29	4,970.53	-0.15
MW32	9/12/2019	23.35			24.27	4,993.22	4,969.87	NA
MW32	12/2/2019	22.99			24.27	4,993.22	4,970.23	0.36
Average change in groundwater elevation (9/12/19 to 12/2/19)								-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 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
DCP CR42 and CR13 PIPELINE RELEASE
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
MW01	5/28/2019	3,930	2,620	111	868	
MW01	8/9/2019	LNAPL				Sample not collected
MW01	12/2/2019	LNAPL				Sample not collected
MW02	5/28/2019	LNAPL				Sample not collected
MW02	8/9/2019	LNAPL				Sample not collected
MW02	12/2/2019	LNAPL				Sample not collected
MW03	5/28/2019	918	108	4.78	92.7	
MW03	8/9/2019	5410	352	11	468	
MW03 (Duplicate B)	8/9/2019	5780	428	11.1	478	
MW03	12/2/2019	1370	<10.0	<10.0	22.5	
MW04	5/28/2019	6,720	2,340	56.9	471	
MW04	8/9/2019	11,600	439	10.2	897	
MW04	12/2/2019	DRY				Sample not collected
MW05	5/28/2019	1,160	705	46.9	300.0	
MW05	8/9/2019	DRY				Sample not collected
MW05	12/3/2019	217	<1.00	<1.00	4.48	
MW06	5/28/2019	DRY				Sample not collected
MW06	8/9/2019	DRY				Sample not collected
MW06	12/2/2019	DRY				Sample not collected
MW07	5/28/2019	352	161	4.64	36.7	
MW07	8/9/2019	253	1.93	<1.00	22.4	
MW07	12/2/2019	40.1	<10.0	<10.0	<10.0	
MW08	5/28/2019	LNAPL				Sample not collected
MW08	8/9/2019	LNAPL				Sample not collected
MW08	12/2/2019	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	
MW09	11/19/2019	<1.00	<1.00	<1.00	<1.00	
MW09	12/2/2019	<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	
MW10	12/2/2019	<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	
MW11	12/2/2019	<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	
MW12	12/2/2019	<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	
MW13	12/2/2019	<1.00	<1.00	<1.00	<1.00	
MW14	5/28/2019	125	47.6	<1.00	6.87	
MW14	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW14	12/2/2019	LNAPL				Sample not collected

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
DCP CR42 and CR13 PIPELINE RELEASE
WELD COUNTY, COLORADO

MW15	5/28/2019	<1.00	<1.00	<2.00	<1.00	
MW15	8/9/2019	16.4	<1.00	<1.00	<1.00	
MW15	12/2/2019	79.6	<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	
MW16	12/2/2019	<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	
MW17	11/19/2019	201	<1.00	<1.00	2.53	
MW17	12/2/2019	58.3	11.0	1.49	11.5	
MW18	6/28/2019	<1.00	<1.00	<1.00	<2.00	
MW18	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW18	11/19/2019	41.3	75.0	5.01	32.1	
MW18	12/3/2019	89.3	99.3	4.05	44.0	
MW19	6/28/2019	<1.00	<1.00	<1.00	<2.00	
MW19	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW19	11/19/2019	6140	974	31.3	280	
MW19	12/3/2019	5130	993	34.7	341	
MW20	6/28/2019	<1.00	<1.00	<1.00	<2.00	
MW20	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW20	12/3/2019	<1.00	<1.00	<1.00	<1.00	
MW21	7/26/2019	927	681	51.1	521	
MW21	8/9/2019	115	40	1.06	119	
MW21 (Duplicate A)	8/9/2019	42.8	31.8	<1.00	99.5	
MW21	12/2/2019	1080	3.27	<1.00	8.18	
MW22	7/26/2019	<1.00	<1.00	<1.00	<1.00	
MW22	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW22	12/2/2019	Insufficient Volume				Sample not collected
MW23	7/26/2019	<1.00	<1.00	<1.00	<1.00	
MW23	8/9/2019	DRY				Sample not collected
MW23	12/2/2019	DRY				Sample not collected
MW24	7/26/2019	6.39	<1.00	<1.00	<1.00	
MW24	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW24	12/2/2019	LNAPL				Sample not collected
MW25	7/26/2019	176	150	9.2	56.5	
MW25	8/9/2019	112	9.14	2.78	18.9	
MW25	12/2/2019	<1.00	<1.00	<1.00	<1.00	
MW26	7/26/2019	117	37.1	2.36	16.8	
MW26 (Duplicate A)	7/26/2019	117	39.7	2.49	17.7	
MW26	8/9/2019	<1.00	<1.00	<1.00	<1.00	
MW26	12/2/2019	151	<1.00	<1.00	<1.00	
MW27	9/13/2019	5460	4730	209	1360	
MW27	12/2/2019	Insufficient Volume				Sample not collected
MW28	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW28	12/2/2019	<1.00	<1.00	<1.00	<1.00	
MW29	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW29	12/2/2019	<1.00	<1.00	<1.00	<1.00	

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
DCP CR42 and CR13 PIPELINE RELEASE
WELD COUNTY, COLORADO

MW30	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW30	12/2/2019	<1.00	<1.00	<1.00	<1.00	
MW31	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW31	11/19/2019	<1.00	<1.00	<1.00	<1.00	
MW31	12/2/2019	<1.00	<1.00	<1.00	<1.00	
MW32	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW32	12/2/2019	<1.00	<1.00	<1.00	<1.00	

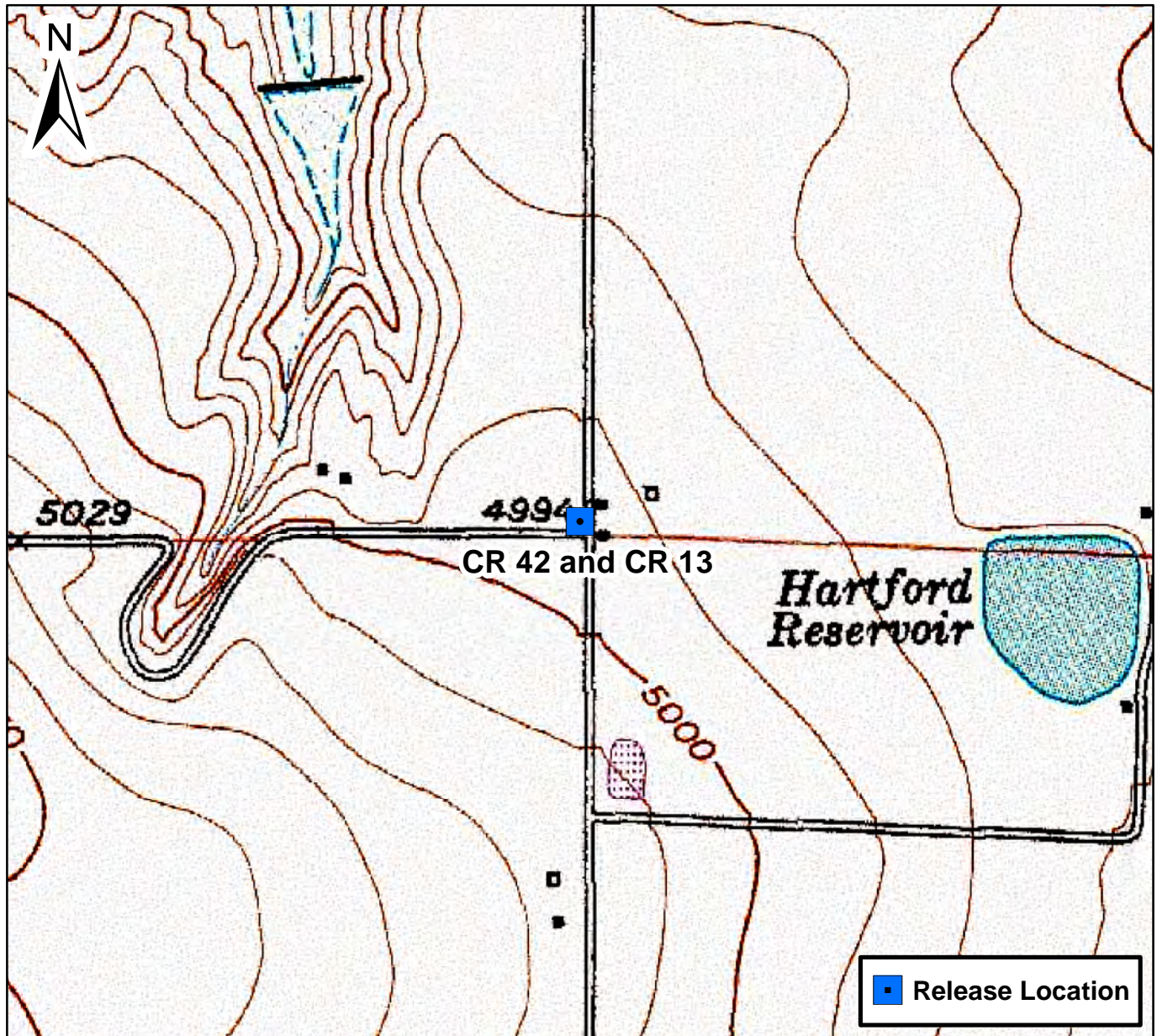
Notes:

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** 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

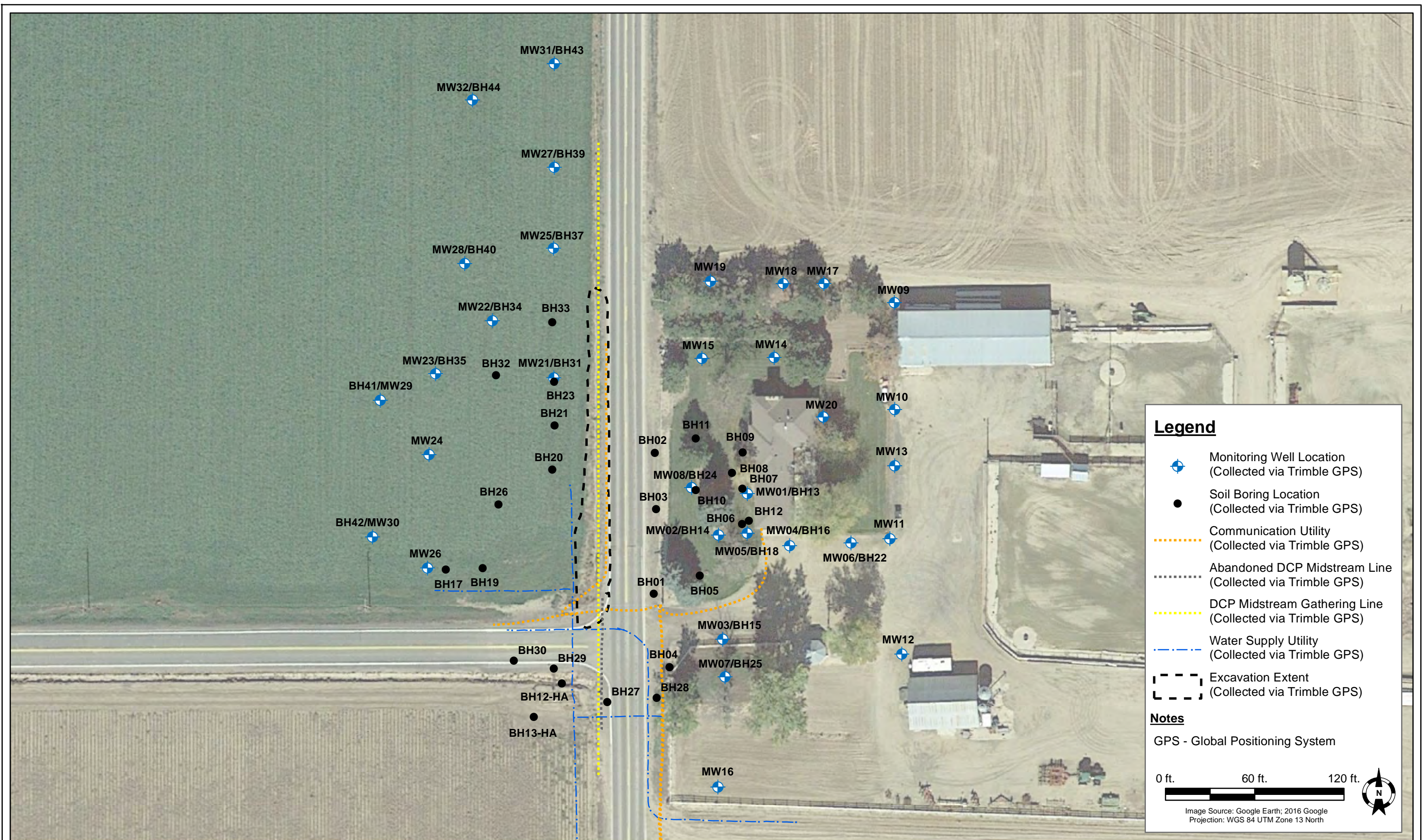


0 750 1,500 Feet

Figure 1

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





DATE:
September 2019

DESIGNED BY:
B. Humphrey

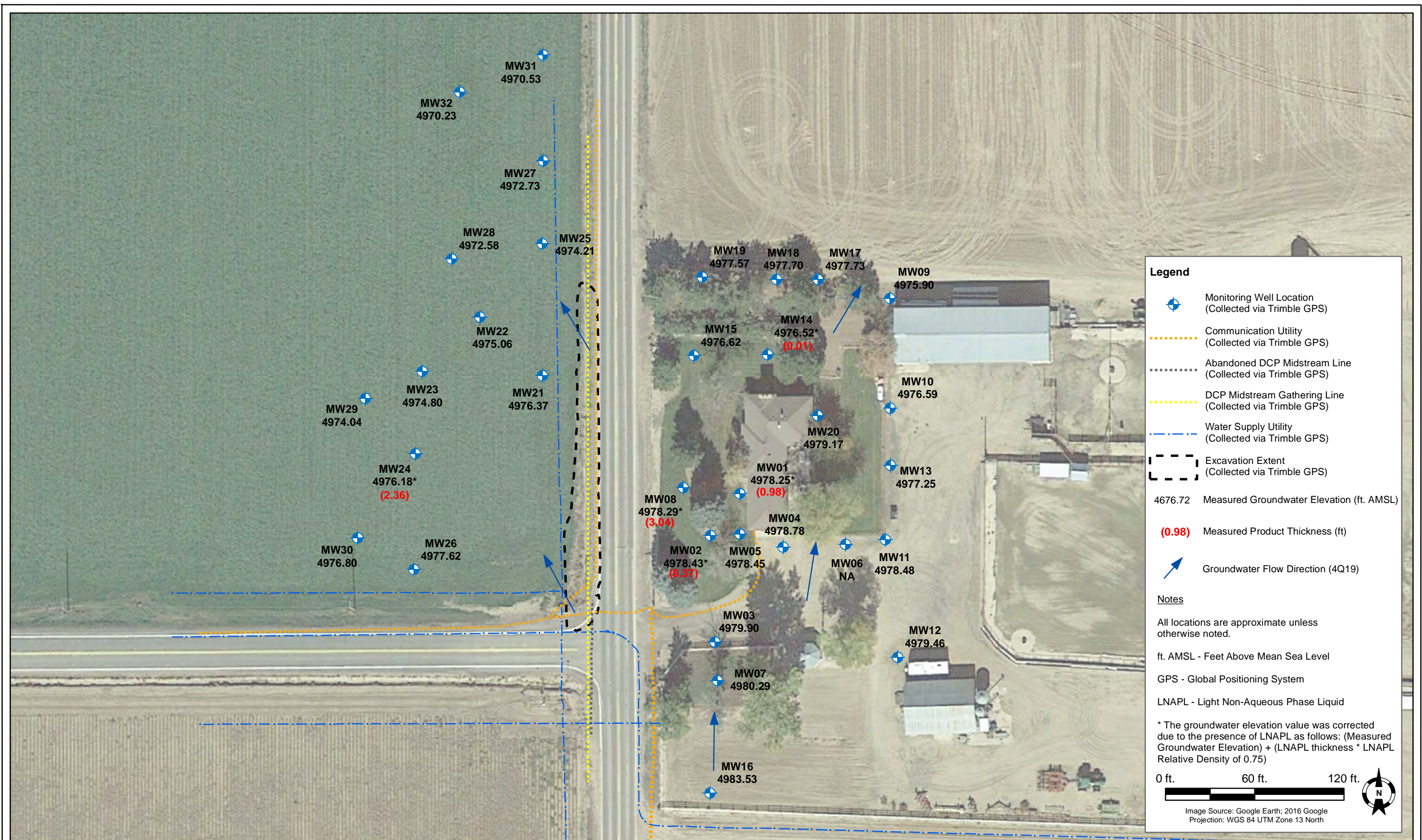
DRAWN BY:
L. Martin



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:
January 2020

DESIGNED BY:
B. Humphrey

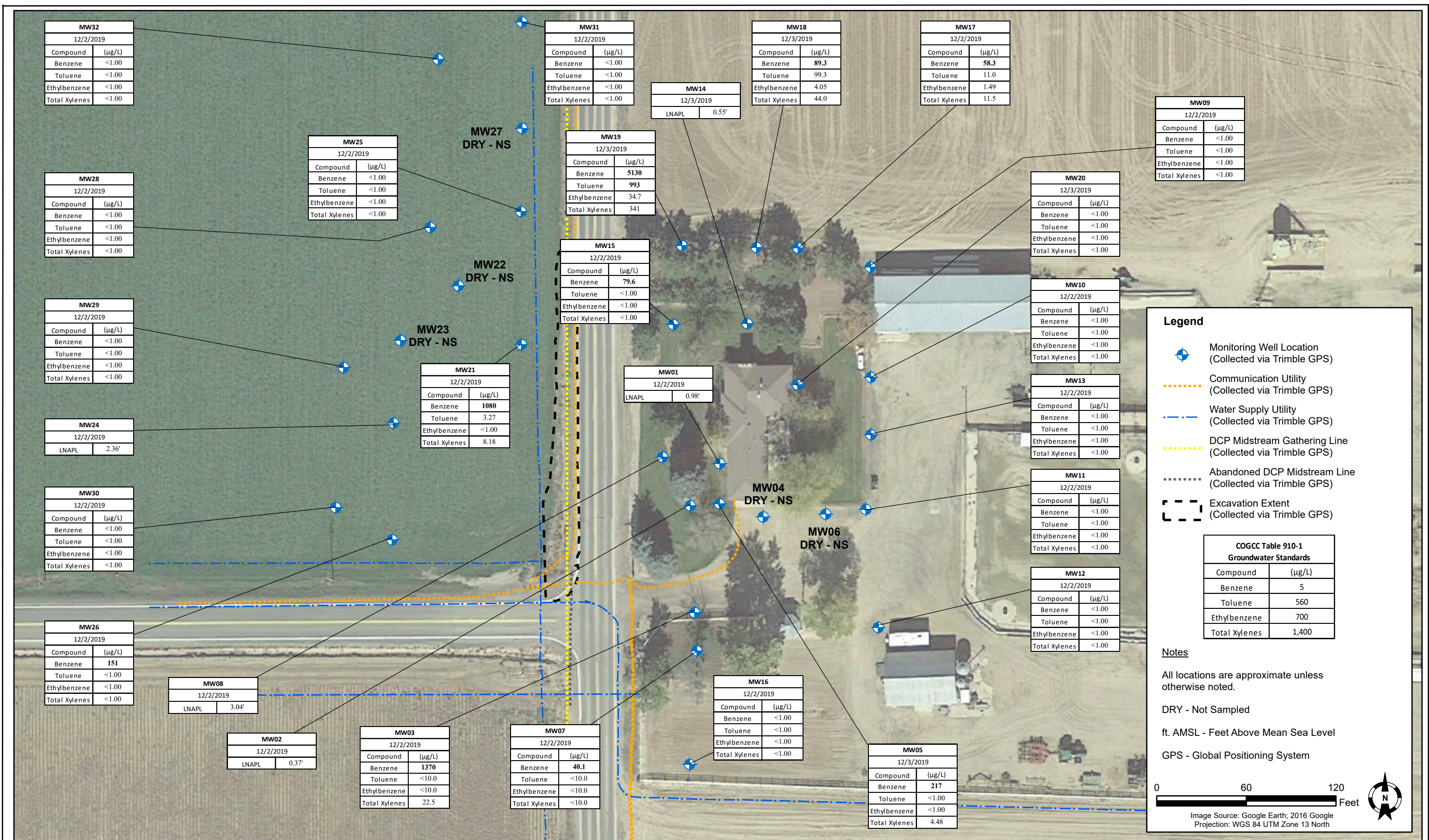
DRAWN BY:
L. Martin



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

Groundwater Elevation Map
(December 2-3, 2019)

Figure
3



DATE: January 2020

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 Analytical Map
(December 2 - 3, 2019)

Figure
4

November 20, 2019

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. November 19, 2019. This project is associated with Origins project number Y911318-01.

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
6855 West 119th Avenue
Broomfield CO 80020

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW09	Y911318-01	Water	November 19, 2019 14:40	11/19/2019 17:15
MW17	Y911318-02	Water	November 19, 2019 15:05	11/19/2019 17:15
MW18	Y911318-03	Water	November 19, 2019 14:55	11/19/2019 17:15
MW19	Y911318-04	Water	November 19, 2019 15:15	11/19/2019 17:15
MW31	Y911318-05	Water	November 19, 2019 15:30	11/19/2019 17:15

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

ORIGINS

LABORATORY, INC

11/13/18

www.originslaboratory.com

page 1 of 1

Client: Tasman
Address: 6855 W-119
Broomfield, CO
Telephone Number: 303-487-1228
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: CR42/13
Project Number:
Samples Collected By: B. Humphrey

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
MW09	11/19/19	1440	3	X				X				8260B	1
MW17	11/19/19	1505	1	X				X					2
MW18	11/19/19	1455	1	X				X					3
MW19	11/19/19	1515	1	X				X					4
MW31	11/19/19	1530	1	X				X					5
													6
													7
													8
													9
													10
Relinquished By: [Signature]	Date: 11/19/19	Time: 1715	Received By: [Signature]	Date: 11/19/19	Time: 1715	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>							
Relinquished By: [Signature]	Date:	Time:	Received By:	Date:	Time:								

Date Results Needed

49

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
6855 West 119th Avenue
Broomfield CO 80020

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: 7911318

Client: Tasman

Client Project ID: CR42 & 13

Checklist Completed by: JG

Shipped Via: HD

Date/time completed: 11/19/2019

(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 / 4.9 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{11/2} ?	<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 ^{11/2} ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ^{11/2} ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ^{11/2} ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ^{11/2} ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ^{11/2} ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ^{11/2} ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ^{11/2} ?	<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 ^{11/2} ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

^{11/2}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) OP

11/20/19
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
6855 West 119th Avenue
Broomfield CO 80020

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

MW09

11/19/2019 2:40:00PM

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

Origins Laboratory, Inc.
Y911318-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1909	KDK	11/19/2019	11/19/2019	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	95.9 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW17

11/19/2019 3:05:00PM

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

Origins Laboratory, Inc. Y911318-02 (Water)

BTEX by EPA 8260D

Benzene	201	10.0	ug/L	10	B9K1909	ZZZ	11/19/2019	11/20/2019	
Toluene	ND	1.00	"	1	"	KDK	"	11/19/2019	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	2.53	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"	"
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW18

11/19/2019 2:55:00PM

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

Origins Laboratory, Inc. Y911318-03 (Water)

BTEX by EPA 8260D

Benzene	41.3	1.00	ug/L	1	B9K1909	KDK	11/19/2019	11/20/2019
Toluene	75.0	1.00	"	"	"	KDK	"	"
Ethylbenzene	5.01	1.00	"	"	"	KDK	"	"
Xylenes, total	32.1	1.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	97.9 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW19

11/19/2019 3:15:00PM

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

Origins Laboratory, Inc. Y911318-04 (Water)

BTEX by EPA 8260D

Benzene	6140	100	ug/L	100	B9K1909	ZZZ	11/19/2019	11/20/2019
Toluene	974	10.0	"	10	"	ZZZ	"	11/20/2019
Ethylbenzene	31.3	1.00	"	1	"	KDK	"	11/20/2019
Xylenes, total	280	1.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	95.2 %	70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW31

11/19/2019 3:30:00PM

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

Origins Laboratory, Inc. Y911318-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1909	ZZZ	11/19/2019	11/20/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	11/20/2019	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	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
6855 West 119th Avenue
Broomfield CO 80020

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 B9K1909 - EPA 5030B (Water)										
Blank (B9K1909-BLK1)					Prepared: 11/19/2019 Analyzed: 11/19/2019					
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	60		"	62.5		96.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	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
6855 West 119th Avenue
Broomfield CO 80020

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 B9K1909 - EPA 5030B (Water)

LCS (B9K1909-BS1)

Prepared: 11/19/2019 Analyzed: 11/19/2019

Benzene	49.5	1.00	ug/L	50.0		98.9	70-130			
Toluene	52.6	1.00	"	50.0		105	70-130			
Ethylbenzene	53.8	1.00	"	50.0		108	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
o-Xylene	50.3	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	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
6855 West 119th Avenue
Broomfield CO 80020

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 B9K1909 - EPA 5030B (Water)

Matrix Spike (B9K1909-MS1)		Source: Y911306-03			Prepared: 11/19/2019 Analyzed: 11/19/2019					
Benzene	46.3	1.00	ug/L	50.0	ND	92.6	70-130			
Toluene	48.2	1.00	"	50.0	ND	96.5	70-130			
Ethylbenzene	49.0	1.00	"	50.0	0.090	97.8	70-130			
m,p-Xylene	96.6	2.00	"	100	ND	96.6	70-130			
o-Xylene	45.9	1.00	"	50.0	ND	91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	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
6855 West 119th Avenue
Broomfield CO 80020

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 B9K1909 - EPA 5030B (Water)

Matrix Spike Dup (B9K1909-MSD1)		Source: Y911306-03			Prepared: 11/19/2019 Analyzed: 11/19/2019					
Benzene	44.7	1.00	ug/L	50.0	ND	89.4	70-130	3.43	20	
Toluene	46.6	1.00	"	50.0	ND	93.2	70-130	3.42	20	
Ethylbenzene	49.1	1.00	"	50.0	0.090	98.0	70-130	0.184	20	
m,p-Xylene	97.0	2.00	"	100	ND	97.0	70-130	0.423	20	
o-Xylene	46.5	1.00	"	50.0	ND	93.0	70-130	1.23	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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
6855 West 119th Avenue
Broomfield CO 80020

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



December 03, 2019

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. December 02, 2019. This project is associated with Origins project number Y912016-01.

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
6855 West 119th Avenue
Broomfield CO 80020

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW03	Y912016-01	Water	December 2, 2019 12:50	12/02/2019 16:15
MW07	Y912016-02	Water	December 2, 2019 12:35	12/02/2019 16:15
MW09	Y912016-03	Water	December 2, 2019 13:25	12/02/2019 16:15
MW10	Y912016-04	Water	December 2, 2019 13:10	12/02/2019 16:15
MW11	Y912016-05	Water	December 2, 2019 12:20	12/02/2019 16:15
MW12	Y912016-06	Water	December 2, 2019 12:15	12/02/2019 16:15
MW13	Y912016-07	Water	December 2, 2019 13:00	12/02/2019 16:15
MW15	Y912016-08	Water	December 2, 2019 13:50	12/02/2019 16:15
MW16	Y912016-09	Water	December 2, 2019 11:55	12/02/2019 16:15
MW17	Y912016-10	Water	December 2, 2019 13:55	12/02/2019 16:15
MW21	Y912016-11	Water	December 2, 2019 12:55	12/02/2019 16:15
MW25	Y912016-12	Water	December 2, 2019 13:00	12/02/2019 16:15
MW26	Y912016-13	Water	December 2, 2019 11:35	12/02/2019 16:15
MW28	Y912016-14	Water	December 2, 2019 12:53	12/02/2019 16:15

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
6855 West 119th Avenue
Broomfield CO 80020

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW29	Y912016-15	Water	December 2, 2019 12:03	12/02/2019 16:15
MW30	Y912016-16	Water	December 2, 2019 12:23	12/02/2019 16:15
MW31	Y912016-17	Water	December 2, 2019 12:04	12/02/2019 16:15
MW32	Y912016-18	Water	December 2, 2019 12:35	12/02/2019 16:15

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

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page 1 of 2

ORIGINS LABORATORY, INC

Client: Tasman Geo/DCP
Address: 6855 W. 119th Ave. 80020
Telephone Number: 303 396 7887
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP CR42 & CR13
Project Number:
Samples Collected By: J. Cunningham

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 ₃	Other	Groundwater	Soil	Air Samming	Other				
MW03	12/2/19	1250	X				X						ETEX	1
MW05														2
MW07		1235	X				X							3
MW09		1325												4
MW10		1310												5
MW11		1220												6
MW12		1215												7
MW13		1300												8
MW15		1350												9
MW16		1155												10
Relinquished By: James Conley	Date: 12/2/19	Time: 1615	Received By: [Signature]			Received By: [Signature]			Date: 12/2/19			Time: 1615	Turnaround Time: 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>	
Relinquished By:	Date:	Time:	Received By:			Received By:			Date:			Time:	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
6855 West 119th Avenue
Broomfield CO 80020

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

www.originslaboratory.com

9/12/2016

page 2 of 2

ORIGINS
LABORATORY, INC

Client: Tasman Geo/DCP
Address: 6855 W. 119th Ave. P8020
Telephone Number: 303-396-7887
Email Address: bhumphrey@tasman-geo.com

Project Manager: Brian Humphrey
Project Name: DCP CR42 and CR13
Project Number:
Samples Collected By: J. Gorington

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analyst	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summed #		
MW17	12/2/19	1355	3	X				X			8260 DTEX	1
MW21		1255										2
MW25		1300										3
MW26		1135										4
MW28		1253										5
MW29		1203										6
MW30		1223										7
MW31		1204										8
MW32		1235										9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
J. Gorington	12/2/19	1615	[Signature]	12/2/19	1615	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> 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
6855 West 119th Avenue
Broomfield CO 80020

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: Y912016

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: 12 / 2 / 2019

Airbill # N/A

Matrix(s) Received: (Check all that apply):

Soil/Solid

☒

Water

Other:

Cooler Number/Temperature: 1 / 5.4 °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄ / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 12/3/19

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
6855 West 119th Avenue
Broomfield CO 80020

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

MW03

12/2/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-01 (Water)

BTEX by EPA 8260D

Benzene	1370	10.0	ug/L	10	B9L0206	ZZZ	12/02/2019	12/02/2019	
Toluene	ND	10.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	10.0	"	"	"	ZZZ	"	"	U
Xylenes, total	22.5	10.0	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW07

12/2/2019 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-02 (Water)

BTEX by EPA 8260D

Benzene	40.1	10.0	ug/L	10	B9L0206	ZZZ	12/02/2019	12/02/2019	
Toluene	ND	10.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	10.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	10.0	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW09

12/2/2019 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW10

12/2/2019 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	98.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW11

12/2/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.3 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW12

12/2/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.9 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW13

12/2/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.2 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW15

12/2/2019 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-08 (Water)

BTEX by EPA 8260D

Benzene	79.6	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW16

12/2/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.0 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW17

12/2/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-10 (Water)

BTEX by EPA 8260D

Benzene	58.3	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019
Toluene	11.0	1.00	"	"	"	ZZZ	"	"
Ethylbenzene	1.49	1.00	"	"	"	ZZZ	"	"
Xylenes, total	11.5	1.00	"	"	"	ZZZ	"	"

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

103 % 70-130
102 % 70-130
97.7 % 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
6855 West 119th Avenue
Broomfield CO 80020

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

MW21

12/2/2019 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-11 (Water)

BTEX by EPA 8260D

Benzene	1080	20.0	ug/L	20	B9L0206	ZZZ	12/02/2019	12/03/2019	
Toluene	3.27	1.00	"	1	"	ZZZ	"	12/02/2019	
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	8.18	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW25

12/2/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	98.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.2 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW26

12/2/2019 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-13 (Water)

BTEX by EPA 8260D

Benzene	151	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.3 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW28

12/2/2019 12:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	98.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW29

12/2/2019 12:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-15 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.5 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW30

12/2/2019 12:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.9 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW31

12/2/2019 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/02/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.9 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW32

12/2/2019 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y912016-18 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0206	ZZZ	12/02/2019	12/03/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.4 %	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
6855 West 119th Avenue
Broomfield CO 80020

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 B9L0206 - EPA 5030B (Water)

Blank (B9L0206-BLK1)

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

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	65		"	62.5	103		70-130			
Surrogate: Toluene-d8	68		"	62.5	108		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.9		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
6855 West 119th Avenue
Broomfield CO 80020

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 B9L0206 - EPA 5030B (Water)

LCS (B9L0206-BS1)

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

Benzene	36.8	1.00	ug/L	50.0		73.6	70-130			
Toluene	39.7	1.00	"	50.0		79.3	70-130			
Ethylbenzene	37.6	1.00	"	50.0		75.3	70-130			
m,p-Xylene	75.0	2.00	"	100		75.0	70-130			
o-Xylene	39.8	1.00	"	50.0		79.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	67		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	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
6855 West 119th Avenue
Broomfield CO 80020

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 B9L0206 - EPA 5030B (Water)

Matrix Spike (B9L0206-MS1)		Source: Y912016-03			Prepared: 12/02/2019 Analyzed: 12/02/2019					
Benzene	51.7	1.00	ug/L	50.0	ND	103	70-130			
Toluene	50.9	1.00	"	50.0	ND	102	70-130			
Ethylbenzene	51.2	1.00	"	50.0	ND	102	70-130			
m,p-Xylene	102	2.00	"	100	ND	102	70-130			
o-Xylene	53.4	1.00	"	50.0	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.5	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
6855 West 119th Avenue
Broomfield CO 80020

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 B9L0206 - EPA 5030B (Water)

Matrix Spike Dup (B9L0206-MSD1)		Source: Y912016-03			Prepared: 12/02/2019 Analyzed: 12/02/2019					
Benzene	36.9	1.00	ug/L	50.0	ND	73.8	70-130	33.4	20	QR-02
Toluene	35.0	1.00	"	50.0	ND	70.0	70-130	37.0	20	QR-02
Ethylbenzene	36.6	1.00	"	50.0	ND	73.2	70-130	33.3	20	QR-02
m,p-Xylene	72.7	2.00	"	100	ND	72.7	70-130	33.8	20	QR-02
o-Xylene	37.7	1.00	"	50.0	ND	75.3	70-130	34.6	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	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
6855 West 119th Avenue
Broomfield CO 80020

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

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.



December 04, 2019

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. December 03, 2019. This project is associated with Origins project number Y912028-01.

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
6855 West 119th Avenue
Broomfield CO 80020

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW05 - 120319	Y912028-01	Water	December 3, 2019 10:35	12/03/2019 13:44
MW18 - 120319	Y912028-02	Water	December 3, 2019 10:55	12/03/2019 13:44
MW19 - 120319	Y912028-03	Water	December 3, 2019 11:10	12/03/2019 13:44
MW20 - 120319	Y912028-04	Water	December 3, 2019 12:14	12/03/2019 13:44

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
6855 West 119th Avenue
Broomfield CO 80020

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

www.originslaboratory.com

12/12/2018

page 1 of 1

ORIGINS
LABORATORY, INC

Client: DCP/Tasman
Address: 6855 W 119th Ave
Broomfield, CO 80020
Telephone Number: 303-487-1228
Email Address: bhumphrey@tasmangeo.com

Project Manager: Brian Humphrey
Project Name: CR42/CR13
Project Number:
Samples Collected By: Brian Gabriel

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 ₃	Other	Groundwater	Soil	Air Summa #		
MN05-120319	12/3/19	1035	3	X				X			Other	1
MN18-120319	12/3/19	1055	3	X				X			Other	2
MN19-120319	12/3/19	1110	3	X				X			Other	3
MN20-120319	12/3/19	1214	3	X				X			Other	4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Received By:	Date:	Time:	Turnaround Time:
[Signature]	12/3/19	[Signature]	12/3/19	1344	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Received By:	Date:	Time:	

Date Results Needed

U 7

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
6855 West 119th Avenue
Broomfield CO 80020

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: Y912028

Client: Tasman

Client Project ID: CR42 & 13

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 12 / 3 / 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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 12/4/19

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
6855 West 119th Avenue
Broomfield CO 80020

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

MW05 - 120319

12/3/2019 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912028-01 (Water)

BTEX by EPA 8260D

Benzene	217	10.0	ug/L	10	B9L0314	ZZZ	12/03/2019	12/04/2019	
Toluene	ND	1.00	"	1	"	ZZZ	"	12/03/2019	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	4.48	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	
Surrogate: Toluene-d8	103 %	70-130	
Surrogate: 4-Bromofluorobenzene	96.4 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW18 - 120319

12/3/2019 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912028-02 (Water)

BTEX by EPA 8260D

Benzene	89.6	1.00	ug/L	1	B9L0314	ZZZ	12/03/2019	12/03/2019
Toluene	99.3	1.00	"	"	"	ZZZ	"	"
Ethylbenzene	4.05	1.00	"	"	"	ZZZ	"	"
Xylenes, total	44.0	1.00	"	"	"	ZZZ	"	"

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

101 % 70-130
100 % 70-130
94.1 % 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
6855 West 119th Avenue
Broomfield CO 80020

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

MW19 - 120319

12/3/2019 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912028-03 (Water)

BTEX by EPA 8260D

Benzene	5130	50.0	ug/L	50	B9L0314	ZZZ	12/03/2019	12/04/2019
Toluene	993	50.0	"	"	"	ZZZ	"	"
Ethylbenzene	34.7	1.00	"	1	"	ZZZ	"	12/03/2019
Xylenes, total	341	1.00	"	"	"	ZZZ	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	12/04/2019
Surrogate: Toluene-d8	106 %	70-130			"	"	12/03/2019
Surrogate: 4-Bromofluorobenzene	90.7 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW20 - 120319

12/3/2019 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y912028-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9L0314	ZZZ	12/03/2019	12/04/2019	U
Toluene	ND	1.00	"	"	"	ZZZ	"	12/03/2019	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	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
6855 West 119th Avenue
Broomfield CO 80020

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 B9L0314 - EPA 5030B (Water)

Blank (B9L0314-BLK1)

Prepared: 12/03/2019 Analyzed: 12/03/2019

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	69		"	62.5	111		70-130			
Surrogate: Toluene-d8	64		"	62.5	102		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.2		70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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 B9L0314 - EPA 5030B (Water)

LCS (B9L0314-BS1)

Prepared: 12/03/2019 Analyzed: 12/03/2019

Benzene	50.8	1.00	ug/L	50.0		102	70-130			
Toluene	52.9	1.00	"	50.0		106	70-130			
Ethylbenzene	52.7	1.00	"	50.0		105	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
o-Xylene	53.5	1.00	"	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	73		"	62.5		117	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.9	70-130			

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Brian Humphrey
Project Number: [none]
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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 B9L0314 - EPA 5030B (Water)

Matrix Spike (B9L0314-MS1)		Source: Y912028-02			Prepared: 12/03/2019 Analyzed: 12/03/2019					
Benzene	166	1.00	ug/L	50.0	89.6	153	70-130			QM-07
Toluene	181	1.00	"	50.0	99.3	162	70-130			QM-07
Ethylbenzene	60.9	1.00	"	50.0	4.05	114	70-130			
m,p-Xylene	149	2.00	"	100	31.2	117	70-130			
o-Xylene	73.0	1.00	"	50.0	12.8	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		111	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.6	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
Batch B9L0314 - EPA 5030B (Water)										
Matrix Spike Dup (B9L0314-MSD1)	Source: Y912028-02				Prepared: 12/03/2019 Analyzed: 12/03/2019					
Benzene	122	1.00	ug/L	50.0	89.6	65.4	70-130	30.4	20	QM-07, QR-03
Toluene	130	1.00	"	50.0	99.3	61.0	70-130	32.7	20	QM-07, QR-03
Ethylbenzene	44.8	1.00	"	50.0	4.05	81.4	70-130	30.6	20	QR-03
m,p-Xylene	109	2.00	"	100	31.2	78.2	70-130	30.5	20	QR-03
o-Xylene	53.6	1.00	"	50.0	12.8	81.6	70-130	30.6	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		108	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.1	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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.

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