

DCP - CR42/CR13 SITE
February 2020
FORM 27 SUPPLEMENTAL SUMMARY REPORT

ATTACHMENTS

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- 1 Groundwater Elevations Summary
- 2 First Quarter 2020 Groundwater Analytical Results Summary
- 3 Historical Groundwater Analytical Results Summary
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- 4 Groundwater Analytical Results Map, February 6, 2020
- 5 Dewatering Trench and Proposed Monitoring Well Location Map

Attachments

- A Groundwater Sample Laboratory Analytical Reports
 - Origins Laboratory Job #: Y002090 (February 6, 2020)

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
MW01	2/5/2020	16.75	15.98	0.77	16.92	4,994.44	4,978.27	0.02
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
MW02	2/5/2020	15.40	15.10	0.30	18.06	4,993.50	4,978.33	-0.10
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
MW03	2/5/2020	12.81			15.81	4,992.60	4,979.79	-0.11
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
MW04	2/5/2020	14.25			14.74	4,993.02	4,978.77	-0.01
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
MW05	2/5/2020	14.98			15.69	4,993.36	4,978.38	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

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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)
MW06	2/5/2020	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
MW07	12/2/2019	12.45			15.09	4,992.74	4,980.29	-0.46
MW07	2/5/2020	12.55			15.09	4,992.74	4,980.19	-0.10
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
MW08	2/5/2020	DRY			17.78	4,993.26	NA	NA
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
MW09	2/5/2020	14.48			22.92	4,990.30	4,975.82	-0.08
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
MW10	2/5/2020	13.98			23.00	4,990.59	4,976.61	0.02
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
MW11	2/5/2020	12.85			23.05	4,991.03	4,978.18	-0.30
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
MW12	2/5/2020	11.72			24.93	4,991.16	4,979.44	-0.02

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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)
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
MW13	2/5/2020	13.43			18.60	4,990.68	4,977.25	0.00
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
MW14	2/5/2020	15.85	15.15	0.70	18.30	4,991.64	4,976.32	-0.02
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
MW15	12/2/2019	15.62			18.24	4,992.24	4,976.62	-0.53
MW15	2/5/2020	15.65			18.24	4,992.24	4,976.59	-0.03
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
MW16	2/5/2020	11.50			18.04	4,994.89	4,983.39	-0.14
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
MW17	2/5/2020	15.40	15.04	0.36	18.25	4,992.79	4,977.66	-0.07
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
MW18	2/5/2020	15.20			18.10	4,992.87	4,977.67	-0.03
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
MW19	2/5/2020	15.60			18.41	4,993.16	4,977.56	-0.01
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
MW20	2/5/2020	14.53			18.23	4,993.74	4,979.21	0.04

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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)
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
MW21	2/5/2020	18.40			20.45	4,994.76	4,976.36	-0.01
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
MW22	2/5/2020	19.76			20.15	4,994.81	4,975.05	-0.01
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
MW23	2/5/2020	20.14			21.14	4,994.81	4,974.67	-0.13
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	4,976.18	0.01
MW24	2/5/2020	19.70	17.50	2.20	20.50	4,994.32	4,976.27	0.09
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
MW25	2/5/2020	19.43			20.55	4,993.89	4,974.46	0.25
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
MW26	2/5/2020	16.70			19.88	4,994.36	4,977.66	0.04
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
MW27	2/5/2020	20.07			20.35	4,992.71	4,972.64	-0.09
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
MW28	2/5/2020	21.18			27.80	4,994.09	4,972.91	0.33
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
MW29	2/5/2020	19.75			25.35	4,994.04	4,974.29	0.25
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

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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)
MW30	2/5/2020	17.24			22.78	4,994.15	4,976.91	0.11
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
MW31	2/5/2020	18.84			22.35	4,991.29	4,972.45	1.92
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
MW32	2/5/2020	22.90			24.27	4,993.22	4,970.32	0.09
Average change in groundwater elevation (12/2/19 to 2/5/20)								0.07

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
FIRST QUARTER 2020 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	2/6/2020	LNAPL				Sample not collected
MW02	2/6/2020	LNAPL				Sample not collected
MW03	2/6/2020	429	<10.0	<10.0	<10.0	
MW04	2/6/2020	1,850	870	<200	<200	
MW05	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW06	2/6/2020	DRY				Sample not collected
MW07	2/6/2020	10.2	<10.0	<10.0	<10.0	
MW08	2/6/2020	DRY				Sample not collected
MW09	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW10	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW11	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW12	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW13	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW14	2/6/2020	LNAPL				Sample not collected
MW15	2/6/2020	38.6	<1.00	<1.00	<1.00	
MW16	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW17	2/6/2020	LNAPL				Sample not collected
MW18	2/6/2020	1380	5.11	<1.00	128	
MW19	2/6/2020	6120	1100	21.7	429	
MW20	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW21	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW22	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW23	2/6/2020	DRY				Sample not collected
MW24	2/6/2020	LNAPL				Sample not collected
MW25	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW26	2/6/2020	183	<1.00	<1.00	1.31	
MW27	2/6/2020	1650	376	3.61	934	
MW28	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW29	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW30	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW31	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW32	2/6/2020	<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 Series Rule for **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

TABLE 3
HISTORICAL 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
MW01	2/6/2020	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
MW02	2/6/2020	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	
MW03	2/6/2020	429	<10.0	<10.0	<10.0	
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
MW04	2/6/2020	1,850	870	<200	<200	
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	
MW05	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW06	5/28/2019	DRY				Sample not collected
MW06	8/9/2019	DRY				Sample not collected
MW06	12/2/2019	DRY				Sample not collected
MW06	2/6/2020	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	
MW07	2/6/2020	10.2	<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
MW08	2/6/2020	DRY				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	
MW09	2/6/2020	<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	
MW10	2/6/2020	<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	

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

MW11	2/6/2020	<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	
MW12	2/6/2020	<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	
MW13	2/6/2020	<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
MW14	2/6/2020	LNAPL				Sample not collected
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	
MW15	2/6/2020	38.6	<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	
MW16	2/6/2020	<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	
MW17	2/6/2020	LNAPL				Sample not collected
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	
MW18	2/6/2020	1380	5.11	<1.00	128	
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	
MW19	2/6/2020	6120	1100	21.7	429	
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	
MW20	2/6/2020	<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	
MW21	2/6/2020	<1.00	<1.00	<1.00	<1.00	
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
MW22	2/6/2020	<1.00	<1.00	<1.00	<1.00	

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

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
MW23	2/6/2020	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
MW24	2/6/2020	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	
MW25	2/6/2020	<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	
MW26	2/6/2020	183	<1.00	<1.00	1.31	
MW27	9/13/2019	5460	4730	209	1360	
MW27	12/2/2019	Insufficient Volume				Sample not collected
MW27	2/6/2020	1650	376	3.61	934	
MW28	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW28	12/2/2019	<1.00	<1.00	<1.00	<1.00	
MW28	2/6/2020	<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	
MW29	2/6/2020	<1.00	<1.00	<1.00	<1.00	
MW30	9/13/2019	<1.00	<1.00	<1.00	<1.00	
MW30	12/2/2019	<1.00	<1.00	<1.00	<1.00	
MW30	2/6/2020	<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	
MW31	2/6/2020	<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	
MW32	2/6/2020	<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.

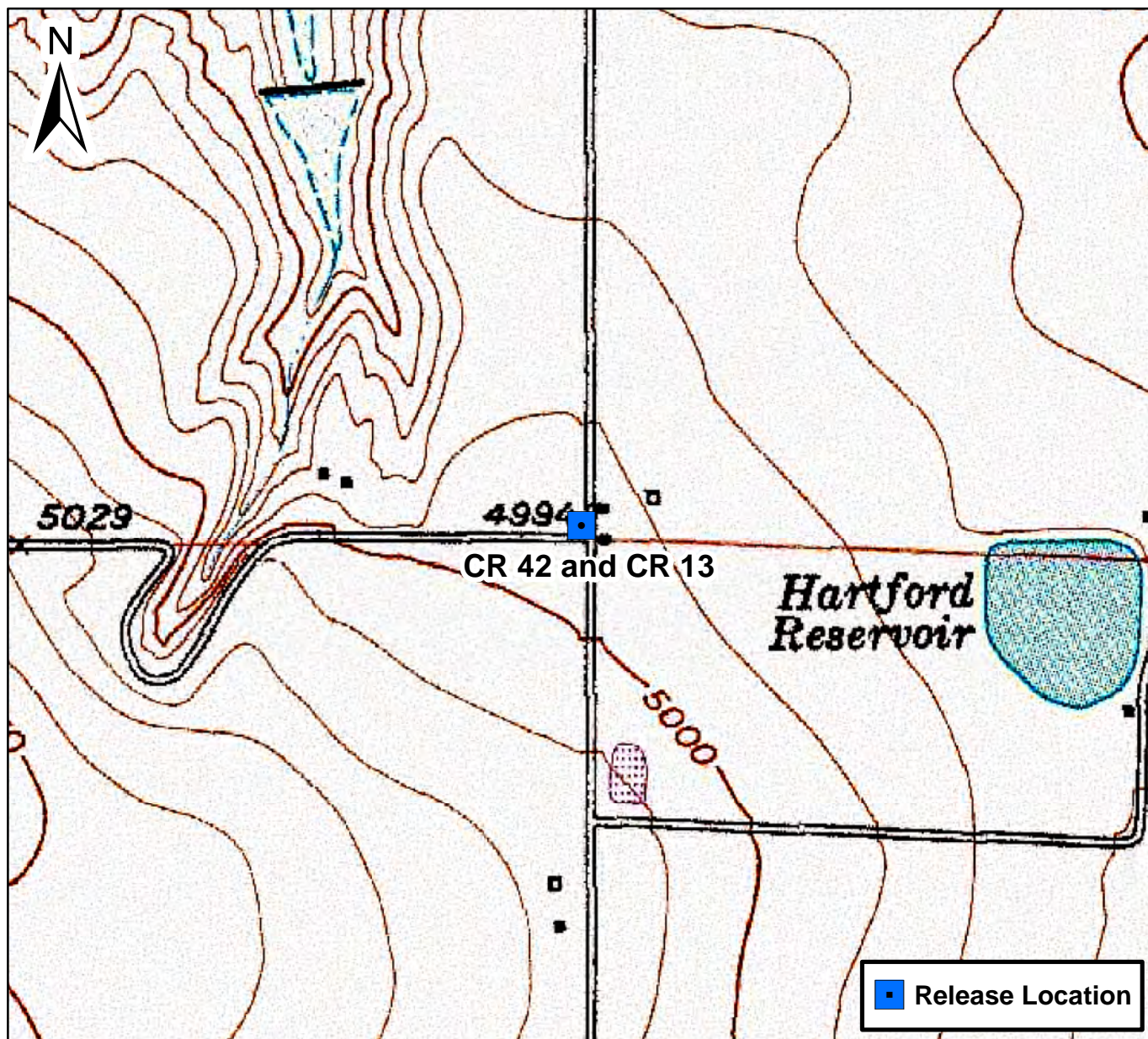
µg/L = micrograms per liter.

LNAPL - Light Non-Aqueous Phase Liquid

DRY - Well was dry

TABLE 4
Dewatering Trenches - Summary of Gallons Removed
CR42 and CR13 PIPELINE RELEASE
WELD COUNTY, COLORADO

Location	Date	Gallons Removed	Notes
Dewatering Trenches	2/24/2020	3,200	Includes pumping from 3 sumps along East - West and North - South Trenches
Dewatering Trenches	2/25/2020	2,114	Includes pumping from 3 sumps along East - West and North - South Trenches
Dewatering Trenches	2/26/2020	1,073	Includes pumping from 3 sumps along East - West and North - South Trenches
Dewatering Trenches	2/28/2020	1,676	Includes pumping from 3 sumps along East - West and North - South Trenches
Dewatering Trenches	3/2/2020	2,530	Includes pumping from 3 sumps along East - West and North - South Trenches
Dewatering Trenches	3/4/2020	1,809	Includes pumping from 3 sumps along East - West and North - South Trenches
Dewatering Trenches	3/6/2020	1,757	Includes pumping from 3 sumps along East - West and North - South Trenches
TOTAL GALLONS		14,159	

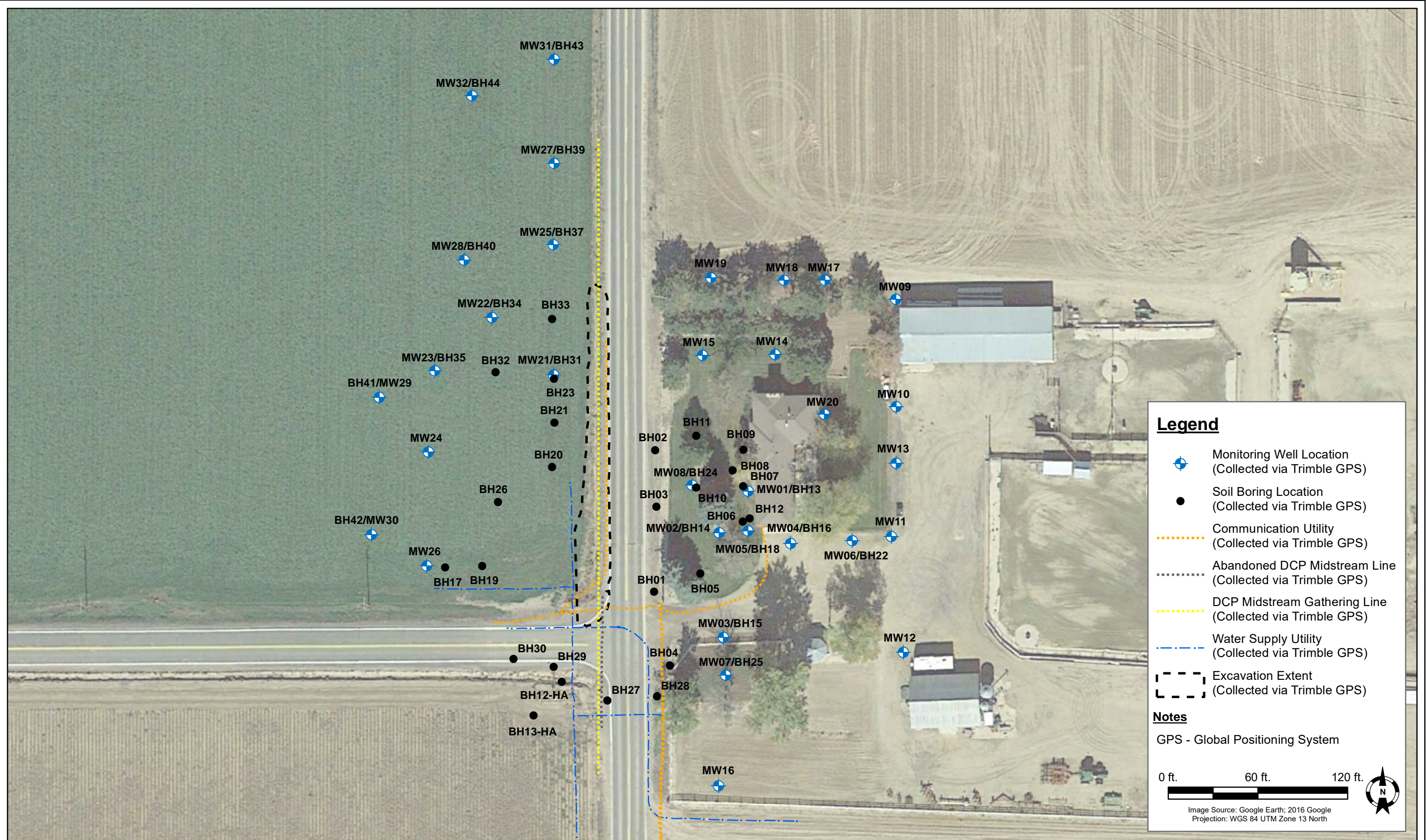


0 750 1,500 Feet

Figure 1

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





DATE:
September 2019

DESIGNED BY:
B. Humphrey

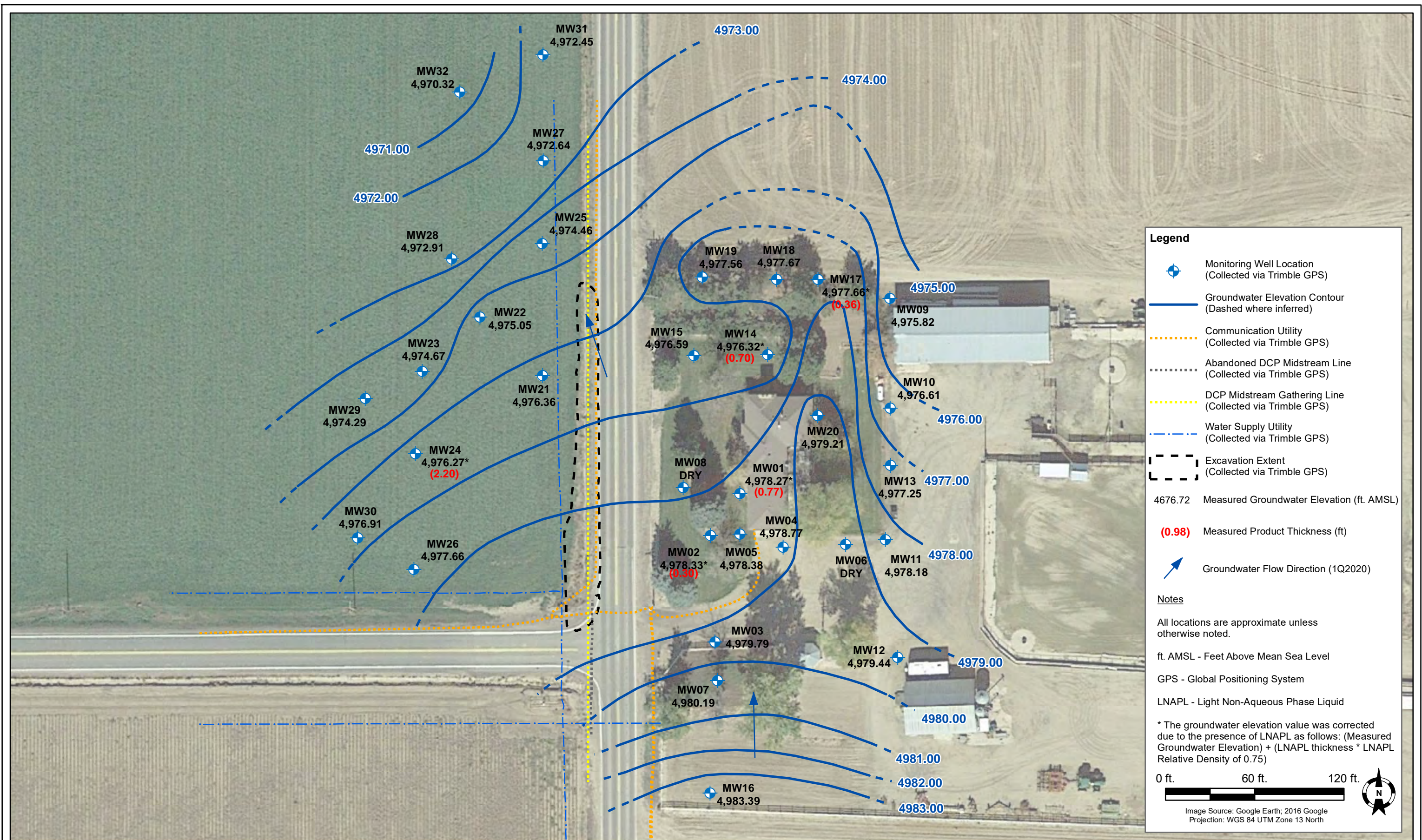
DRAWN BY:
L. Martin



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



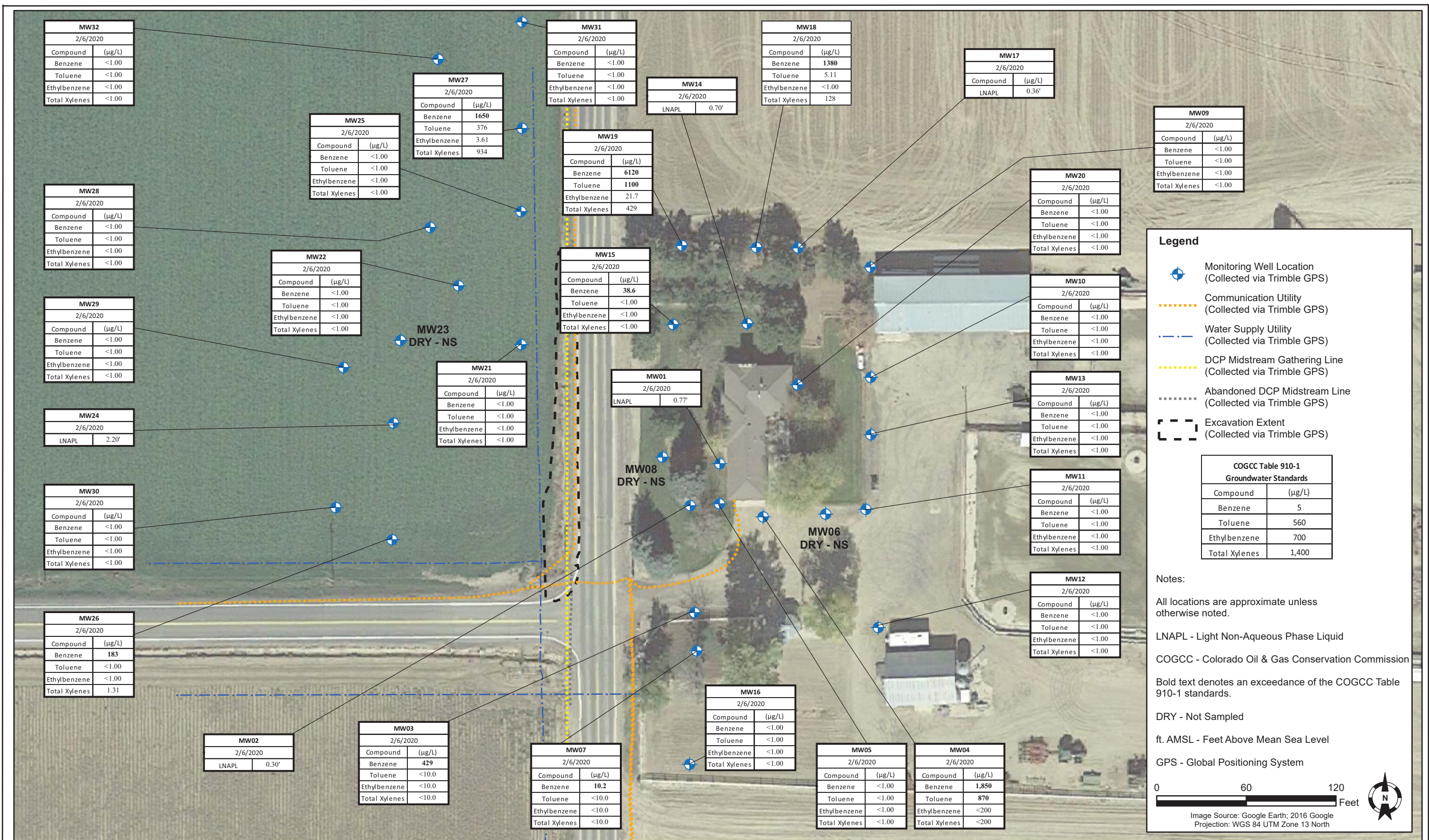
DATE:	February 2020
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin



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

Groundwater Elevation
Contour Map
(February 5, 2020)

Figure
3



DATE: February 2020

DESIGNED BY: B. Humphrey

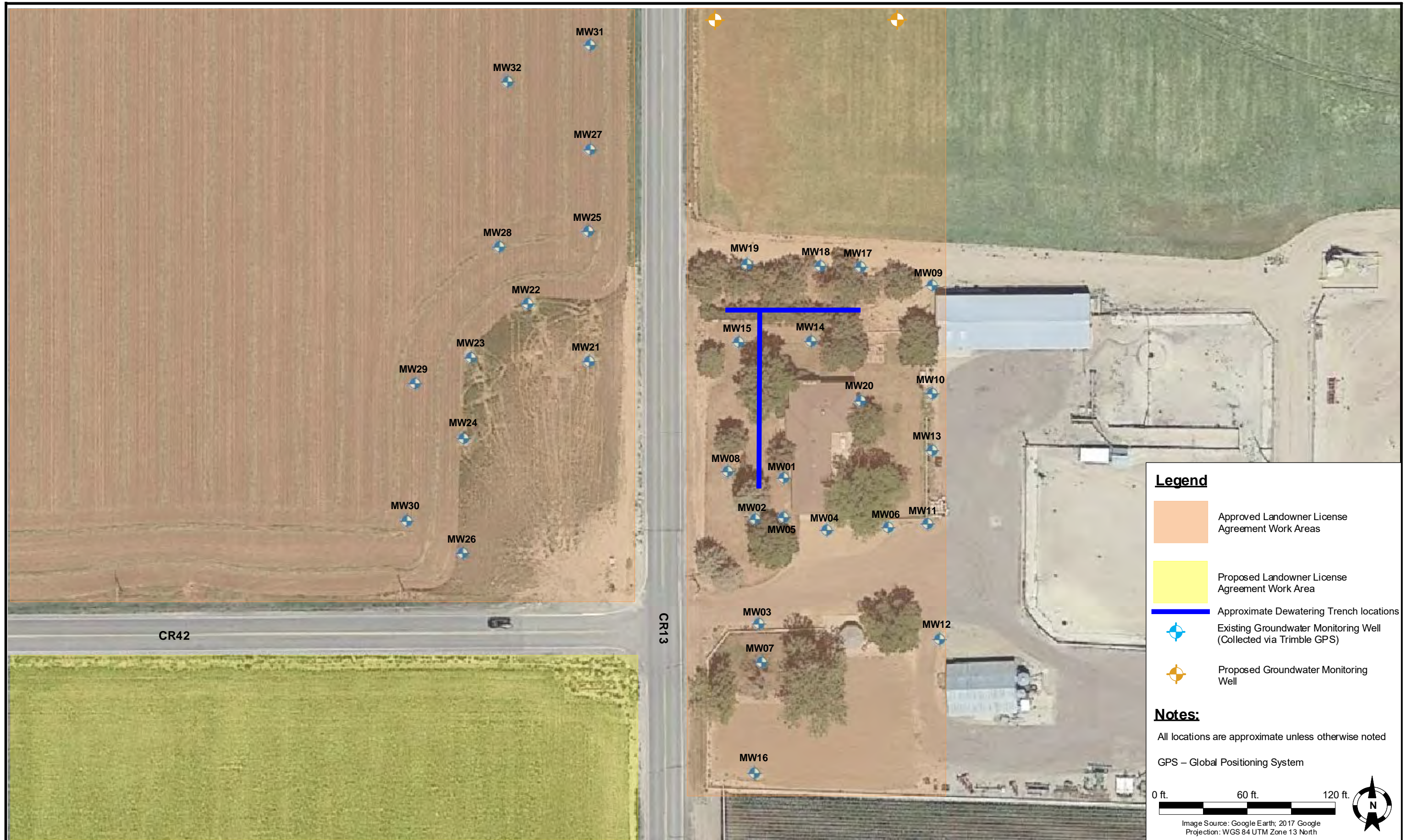
DRAWN BY: L. Martin



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

Groundwater Analytical Map
(February 6, 2020)

Figure
4



DATE: 1/28/2019

DESIGNED BY: B. Humphrey

DRAWN BY: B. Humphrey



Tasman Geosciences, Inc.
6855 W. 119th Ave.
Broomfield, CO 80020

CR 42 and CR 13
SESE, Section 24, Township 4 North, Range 68 West
Weld County, Colorado

FIGURE 5
Dewatering Trench Locations and
Proposed Monitoring Well Locations



February 11, 2020

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. February 06, 2020. This project is associated with Origins project number Y002090-01.

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	Y002090-01	Water	February 6, 2020 13:08	02/06/2020 14:15
MW04	Y002090-02	Water	February 6, 2020 10:50	02/06/2020 14:15
MW05	Y002090-03	Water	February 6, 2020 12:42	02/06/2020 14:15
MW07	Y002090-04	Water	February 6, 2020 13:05	02/06/2020 14:15
MW09	Y002090-05	Water	February 6, 2020 10:13	02/06/2020 14:15
MW10	Y002090-06	Water	February 6, 2020 10:27	02/06/2020 14:15
MW11	Y002090-07	Water	February 6, 2020 10:40	02/06/2020 14:15
MW12	Y002090-08	Water	February 6, 2020 10:45	02/06/2020 14:15
MW13	Y002090-09	Water	February 6, 2020 10:29	02/06/2020 14:15
MW15	Y002090-10	Water	February 6, 2020 9:57	02/06/2020 14:15
MW16	Y002090-11	Water	February 6, 2020 13:18	02/06/2020 14:15
MW18	Y002090-12	Water	February 6, 2020 10:15	02/06/2020 14:15
MW19	Y002090-13	Water	February 6, 2020 10:01	02/06/2020 14:15
MW20	Y002090-14	Water	February 6, 2020 10:25	02/06/2020 14:15

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
MW21	Y002090-15	Water	February 6, 2020 12:20	02/06/2020 14:15
MW22	Y002090-16	Water	February 6, 2020 12:10	02/06/2020 14:15
MW25	Y002090-17	Water	February 6, 2020 12:01	02/06/2020 14:15
MW26	Y002090-18	Water	February 6, 2020 12:19	02/06/2020 14:15
MW27	Y002090-19	Water	February 6, 2020 11:54	02/06/2020 14:15
MW28	Y002090-20	Water	February 6, 2020 11:58	02/06/2020 14:15
MW29	Y002090-21	Water	February 6, 2020 11:38	02/06/2020 14:15
MW30	Y002090-22	Water	February 6, 2020 11:25	02/06/2020 14:15
MW31	Y002090-23	Water	February 6, 2020 11:35	02/06/2020 14:15
MW32	Y002090-24	Water	February 6, 2020 11:22	02/06/2020 14:15

Origins Laboratory, Inc.



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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 3

4000000

ORIGINS

LABORATORY, INC

Client: DCP / Tasman Project Manager/Send Report To: Brian Humphrey, Steelworkers
Address: 6855 W 119th Ave Email Address: BHumphrey@tasman-ge.com Slower@slower.com
Broomfield CO 80020 Project Name/Number: CR 42 / 13 depmid stream 10m
Telephone Number: 303-487-1228 Samples Collected By: Brian Grubel, Alison Dahl

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summary		
MW03	2/5/20	1308	3	X				X			BTEX	
MW04	2/6/20	1050	2	X				X				
MW05	2/6/20	1242	3	X				X				
MW07	2/6/20	1305	3	X				X				
MW09	2/6/20	1013	3	X				X				
MW10	2/6/20	1027	3	X				X				
MW11	2/6/20	1040	3	X				X				
MW12	2/6/20	1045	3	X				X				
MW13	2/6/20	1029	3	X				X				
MW15	2/6/20	0957	3	X				X				

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Alison Dahl</u>	<u>2/6/20</u>	<u>1415</u>	<u>[Signature]</u>	<u>2-6-20</u>	<u>1415</u>	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

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
6855 West 119th Avenue
Broomfield CO 80020

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

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page 2 of 3

ORIGINS
LABORATORY, INC

Client: DCP / Tasman
Address: 6855 W 119th Ave
Broomfield CO 80020
Telephone Number: 303-487-1228

Project Manager/Send Report To: Brian Humphrey, Steve Weathers
Email Address: BHumphrey@tasman-geo.com, SWeathers@tasman-geo.com
Project Name/Number: CR 42 / 13
Samples Collected By: Brian Gabel, Alison Dahl

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sample & Container			Other
MW16	2/6/20	1318	3	X									
MW18	2/6/20	1015	3	X									
MW19	2/6/20	1001	3	X									
MW20	2/6/20	1025	3	X									
MW21	2/6/20	1220	3	X									
MW22	2/6/20	1210	2	X									
MW25	2/6/20	1201	3	X									
MW26	2/6/20	1219	3	X									
MW27	2/6/20	1154	3	X									
MW28	2/6/20	1158	3	X									

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Alison Dahl</u>	<u>2/6/2020</u>	<u>1415</u>	<u>[Signature]</u>	<u>2-6-20</u>	<u>1415</u>	<input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard

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.

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

ORIGINS
LABORATORY, INC.

Client: DCP / Tasman
Address: 6855 W 19th Ave
Broomfield CO 80020

Project Manager/Send Report To: Brian Humphrey, Stone Workers
Email Address: BHumphrey@kskincngco.com 510weatherse
depw@dstrewn.com
Project Name/Number: CR42 / 13
Samples Collected By: Brian Grabel, Alison Zali

www.originslaboratory.com
page 3 of 3
Y002090

Telephone Number: 303-487-1228

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative						Matrix				Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other				
MW29	2/6/20	1138	3	X					X				BTEX		1
MW30	2/6/20	1125	3	X					X						2
MW31	2/6/20	1135	3	X					X						3
MW32	2/6/20	1122	3	X					X						4
															5
															6
															7
															8
															9
															10
Relinquished By: <i>Ali Dane</i>	Date: 2/6/2020	Time: 1415	Received By: <i>[Signature]</i>	Date: 2-6-20	Time: 1415	Tumaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>									
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Standard <input checked="" type="checkbox"/>									

Info Facile Needed:

Origins Laboratory, Inc.

Jeff Pellgrini

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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: 4002090 Client: Tasman
Client Project ID: DCP-CR42+13
Checklist Completed by: JB Shipped Via: HD
Date/time completed: 2/16/20 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: NA
Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other ☐ (Describe)
Cooler Number/Temperature: 1 / 5.9 °C / °C / °C / °C
Thermometer ID: TOCP

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°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 type="checkbox"/>	<input checked="" 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: [Signature] (Project Manager)

Date/Time Reviewed: 2/10/20

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW03

2/6/2020 1:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-01 (Water)

BTEX by EPA 8260D

Benzene	429	10.0	ug/L	10	B0B0704	ZZZ	02/07/2020	02/10/2020	
Toluene	ND	10.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	10.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	10.0	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130			"	"	"
Surrogate: Toluene-d8	95.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW04

2/6/2020 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-02 (Water)

BTEX by EPA 8260D

Benzene	1850	200	ug/L	200	B0B0704	ZZZ	02/07/2020	02/10/2020	
Toluene	870	200	"	"	"	ZZZ	"	"	
Ethylbenzene	ND	200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW05

2/6/2020 12:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	KDK	02/07/2020	02/10/2020	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	95.6 %	70-130	"	"	02/10/2020
Surrogate: Toluene-d8	97.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW07

2/6/2020 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-04 (Water)

BTEX by EPA 8260D

Benzene	10.2	10.0	ug/L	10	B0B0704	ZZZ	02/07/2020	02/10/2020	
Toluene	ND	10.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	10.0	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	10.0	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130			"	"	"
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW09

2/6/2020 10:13:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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	99.9 %	70-130	"	"	"
Surrogate: Toluene-d8	94.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW10

2/6/2020 10:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

101 % 70-130
96.0 % 70-130
102 % 70-130

" " "
" " "
" " "

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW11

2/6/2020 10:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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	101 %	70-130			"	"	"
Surrogate: Toluene-d8	95.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW12

2/6/2020 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

103 % 70-130
97.0 % 70-130
101 % 70-130

" " "
" " "
" " "

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW13

2/6/2020 10:29:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

103 % 70-130
95.9 % 70-130
101 % 70-130

" " "
" " "
" " "

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW15

2/6/2020 9:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-10 (Water)

BTEX by EPA 8260D

Benzene	38.6	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW16

2/6/2020 1:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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	94.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW18

2/6/2020 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-12 (Water)

BTEX by EPA 8260D

Benzene	1380	50.0	ug/L	50	B0B0704	KDK	02/07/2020	02/10/2020	
Toluene	5.11	1.00	"	1	"	ZZZ	"	02/10/2020	
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	128	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	90.2 %	70-130	"	"	"	"	"	"	
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW19

2/6/2020 10:01:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-13 (Water)

BTEX by EPA 8260D

Benzene	6120	50.0	ug/L	50	B0B0704	KDK	02/07/2020	02/11/2020
Toluene	1100	50.0	"	"	"	KDK	"	"
Ethylbenzene	21.7	1.00	"	1	"	ZZZ	"	02/10/2020
Xylenes, total	429	1.00	"	"	"	ZZZ	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	02/11/2020
Surrogate: Toluene-d8	94.8 %	70-130			"	"	02/10/2020
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW20

2/6/2020 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	KDK	02/07/2020	02/11/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	02/10/2020	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

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

102 % 70-130
93.7 % 70-130
83.4 % 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

MW21

2/6/2020 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-15 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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	102 %	70-130	"	"	"
Surrogate: Toluene-d8	95.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW22

2/6/2020 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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	103 %	70-130	"	"	"
Surrogate: Toluene-d8	96.2 %	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW25

2/6/2020 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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	95.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	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
6855 West 119th Avenue
Broomfield CO 80020

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

MW26

2/6/2020 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-18 (Water)

BTEX by EPA 8260D

Benzene	183	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	1.31	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

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

MW27

2/6/2020 11:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-19 (Water)

BTEX by EPA 8260D

Benzene	1650	50.0	ug/L	50	B0B0704	KDK	02/07/2020	02/11/2020
Toluene	376	50.0	"	"	"	KDK	"	"
Ethylbenzene	3.61	1.00	"	1	"	ZZZ	"	02/10/2020
Xylenes, total	934	50.0	"	50	"	KDK	"	02/11/2020

Surrogate: 1,2-Dichloroethane-d4	81.6 %	70-130			"	"	02/10/2020
Surrogate: Toluene-d8	110 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"

Origins Laboratory, Inc.



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Broomfield CO 80020

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

MW28

2/6/2020 11:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-20 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0704	ZZZ	02/07/2020	02/10/2020	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	101 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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Broomfield CO 80020

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

MW29

2/6/2020 11:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-21 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0703	KDK	02/07/2020	02/10/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	96.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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6855 West 119th Avenue
Broomfield CO 80020

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

MW30

2/6/2020 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-22 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0703	KDK	02/07/2020	02/10/2020	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	108 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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6855 West 119th Avenue
Broomfield CO 80020

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

MW31

2/6/2020 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-23 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0703	KDK	02/07/2020	02/10/2020	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	96.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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6855 West 119th Avenue
Broomfield CO 80020

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

MW32

2/6/2020 11:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002090-24 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0703	KDK	02/07/2020	02/10/2020	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	108 %	70-130	"	"	"
Surrogate: Toluene-d8	96.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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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 B0B0703 - EPA 5030B (Water)

Blank (B0B0703-BLK1)

Prepared: 02/07/2020 Analyzed: 02/10/2020

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	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	60		"	62.5	95.5		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.0		70-130			

Origins Laboratory, Inc.



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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

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 B0B0703 - EPA 5030B (Water)

LCS (B0B0703-BS1)

Prepared: 02/07/2020 Analyzed: 02/10/2020

Benzene	49.9	1.00	ug/L	50.0		99.8	70-130			
Toluene	54.1	1.00	"	50.0		108	70-130			
Ethylbenzene	53.4	1.00	"	50.0		107	70-130			
m,p-Xylene	110	2.00	"	100		110	70-130			
o-Xylene	53.1	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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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 B0B0703 - EPA 5030B (Water)

Matrix Spike (B0B0703-MS1)		Source: Y002096-01			Prepared: 02/07/2020 Analyzed: 02/10/2020					
Benzene	52.1	1.00	ug/L	50.0	1.04	102	70-130			
Toluene	56.1	1.00	"	50.0	ND	112	70-130			
Ethylbenzene	63.7	1.00	"	50.0	10.2	107	70-130			
m,p-Xylene	147	2.00	"	100	41.3	106	70-130			
o-Xylene	66.5	1.00	"	50.0	13.2	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	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

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 B0B0703 - EPA 5030B (Water)

Matrix Spike Dup (B0B0703-MSD1)		Source: Y002096-01			Prepared: 02/07/2020 Analyzed: 02/10/2020					
Benzene	47.0	1.00	ug/L	50.0	1.04	91.9	70-130	10.3	20	
Toluene	50.1	1.00	"	50.0	ND	100	70-130	11.3	20	
Ethylbenzene	58.4	1.00	"	50.0	10.2	96.4	70-130	8.58	20	
m,p-Xylene	136	2.00	"	100	41.3	94.3	70-130	8.31	20	
o-Xylene	61.1	1.00	"	50.0	13.2	95.9	70-130	8.35	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	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 B0B0704 - EPA 5030B (Water)

Blank (B0B0704-BLK1)

Prepared: 02/07/2020 Analyzed: 02/10/2020

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		96.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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 B0B0704 - EPA 5030B (Water)

LCS (B0B0704-BS1)

Prepared: 02/07/2020 Analyzed: 02/10/2020

Benzene	44.4	1.00	ug/L	50.0		88.9	70-130			
Toluene	41.6	1.00	"	50.0		83.2	70-130			
Ethylbenzene	43.0	1.00	"	50.0		85.9	70-130			
m,p-Xylene	85.4	2.00	"	100		85.4	70-130			
o-Xylene	45.6	1.00	"	50.0		91.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	70-130			

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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 B0B0704 - EPA 5030B (Water)

Matrix Spike (B0B0704-MS1)		Source: Y002090-06			Prepared: 02/07/2020 Analyzed: 02/10/2020					
Benzene	43.4	1.00	ug/L	50.0	ND	86.8	70-130			
Toluene	44.2	1.00	"	50.0	ND	88.5	70-130			
Ethylbenzene	45.6	1.00	"	50.0	ND	91.2	70-130			
m,p-Xylene	91.1	2.00	"	100	ND	91.1	70-130			
o-Xylene	47.9	1.00	"	50.0	ND	95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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 B0B0704 - EPA 5030B (Water)

Matrix Spike Dup (B0B0704-MSD1)		Source: Y002090-06			Prepared: 02/07/2020 Analyzed: 02/10/2020					
Benzene	60.5	1.00	ug/L	50.0	ND	121	70-130	32.8	20	QR-03
Toluene	61.2	1.00	"	50.0	ND	122	70-130	32.2	20	QR-03
Ethylbenzene	62.4	1.00	"	50.0	ND	125	70-130	31.0	20	QR-03
m,p-Xylene	124	2.00	"	100	ND	124	70-130	30.7	20	QR-03
o-Xylene	65.0	1.00	"	50.0	ND	130	70-130	30.4	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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.

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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