

**TABLE 1 - LW USA 1  
SPILL EXCAVATION  
SOIL ANALYTICAL RESULTS  
CAERUS OIL AND GAS LLC  
PICEANCE BASIN, COLORADO**

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	USA 1 - POR (6')	USA 1 - SP1 (spill path)	USA 1 - SP2 (spill path)	LW USA 1 - SP1 (10")	LW USA 1 - SP2 (10")	USA 1 - BOT	USA 1 - E WALL	USA 1 - N WALL	USA 1 - S WALL
Sample Date			5/28/2020	5/28/2020	5/28/2020	6/18/2020	6/18/2020	6/25/2020	6/25/2020	6/25/2020	6/25/2020
Sample Matix			Spill	Spill	Spill	Spill	Spill	Spill	Spill	Spill	Spill
Arsenic	0.39	mg/kg	4.89	2.56	2.81	<2.00	11.6	<2.00	2.25	<2.00	<2.00
Barium	15,000	mg/kg	562	584	640	410	512	824	486	1350	332
Cadmium	70	mg/kg	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chromium (III)	120,000	mg/kg	10.1	11	10.1	8.71	11.4	7.89	10.4	6.57	8.46
Chromium (VI)	23	mg/kg	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Copper	3,100	mg/kg	9.59	10.4	10.5	9.32	15.4	8.04	12.1	8.63	8.68
Lead	400	mg/kg	8.58	8.03	7.29	7.3	9.47	6.07	7.37	4.92	7.28
Mercury	23	mg/kg	0.0435	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Nickel	1,600	mg/kg	10.8	9.73	10.5	7.37	10.9	6.92	9.95	7.64	7.38
Selenium	390	mg/kg	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Silver	390	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Zinc	23,000	mg/kg	33.6	63.9	62.9	30	41.6	24.9	33.7	42.5	25.2
EC	4 or 2x background	mmhos/cm	1.77	6.25	4.47	2.28	2.58	1.49	2.9	2.1	2.66
pH	6-9	SU	8.64	7.92	8.22	8.12	8.12	8.13	9.19	8.27	8.75
SAR	12	unitless	16.2	65.2	64.2	21.8	13.3	4.48	51.1	8.15	23.2
TPH-DRO			10.3	4.05	18.1	<4.00	<4.00	<4.00	4.36	<4.00	<4.00
TPH-GRO			151	65.5	66.6	0.189	0.146	<0.100	0.847	<0.100	0.192
TPH	500	mg/kg	161.3	69.55	84.7	<4.189	<4.146	<4.100	5.207	<4.100	<4.192
Benzene	0.17	mg/kg	2.24	3.43	1.71	0.00138	<0.00100	0.00186	0.0148	<0.00100	0.00353
Toluene	85	mg/kg	7.65	12.3	5.65	0.00585	<0.00500	<0.00500	0.13	<0.00500	<0.00500
Ethylbenzene	100	mg/kg	0.275	0.325	0.231	<0.00250	<0.00250	<0.00250	0.00992	<0.00250	<0.00250
Total Xylenes	175	mg/kg	4.05	4.92	4.03	0.0142	<0.00650	<0.00650	0.507	<0.00650	<0.00650
Acenaphthene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Anthracene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Benz(a)anthracene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.012	<0.00600	<0.00600
Benzo(b)fluoranthene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00888	<0.00600	<0.00600
Benzo(k)fluoranthene	2.2	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Benzo(a)pyrene	0.022	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00657	<0.00600	<0.00600
Chrysene	22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00939	<0.00600	<0.00600
Dibenzo(a,h)anthracene	0.022	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Fluoranthene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.0285	<0.00600	<0.00600
Fluorene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600
Naphthalene	23	mg/kg	0.0285	<0.00600	<0.00600	<0.020	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200
Pyrene	1,000	mg/kg	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.0181	<0.00600	<0.00600

Notes:  
 < - less than the stated reporting limit  
 Highlight - indicates result exceeds the COGCC concentration level  
 COGCC - Colorado Oil and Gas Conservation Commission  
 EC - electrical conductivity  
 mg/kg - milligrams per kilogram  
 mmhos/cm - millimhos per centimeter  
 NA - not analyzed  
 ND - non detect  
 SAR - sodium adsorption ratio  
 SU - standard unit  
 TPH-GRO - total petroleum hydrocarbons-gasoline range organics  
 TPH-DRO - total petroleum hydrocarbons-diesel range organics  
 TPH - combination of TPH-GRO and TPH-DRO

**TABLE 2 - LW USA 1  
SPILL EXCAVATION  
SOIL ANALYTICAL RESULTS  
CAERUS OIL AND GAS LLC  
PICEANCE BASIN, COLORADO**

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	USA 1 - W WALL	W	W	W	W	N	N	W	W	S
Sample Date			6/25/2020	6/27/2014	6/27/2014	6/27/2014	6/27/2014	6/27/2014	6/27/2014	6/27/2014	6/27/2014	6/27/2014
Sample Matix			Spill	Background	Background	Background	Background	Background	Background	Background	Background	Background
Arsenic	0.39	mg/kg	3.6	BDL	BDL	13	13	13	13	12	12	8.3
Barium	15,000	mg/kg	383	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	70	mg/kg	<0.500	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	120,000	mg/kg	12.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	23	mg/kg	<2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	3,100	mg/kg	13.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	mg/kg	9.67	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	mg/kg	<0.0400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	mg/kg	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	390	mg/kg	<2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	390	mg/kg	<1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	mg/kg	39.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
EC	4 or 2x background	mmhos/cm	1.91	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	6-9	SU	8.22	NA	NA	NA	NA	NA	NA	NA	NA	NA
SAR	12	unitless	7.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-DRO			<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO			0.233	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH	500	mg/kg	<4.233	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.17	mg/kg	0.00371	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	85	mg/kg	0.0189	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100	mg/kg	<0.00250	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	175	mg/kg	<0.00650	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	1,000	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,000	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	0.22	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.22	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	2.2	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.022	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	22	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	1,000	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	23	mg/kg	<0.0200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	mg/kg	<0.00600	NA	NA	NA	NA	NA	NA	NA	NA	NA

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 TPH-GRO - total petroleum hydrocarbons-gasoline range organics  
 TPH-DRO - total petroleum hydrocarbons-diesel range organics  
 TPH - combination of TPH-GRO and TPH-DRO

**TABLE 3 - LW USA 1  
SPILL EXCAVATION  
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PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	LW USA 1 S WALL	LW USA 1 SP1 (30")	LW USA 1 SP2 (30")	LW USA 1 E WALL	LW USA 1 E WALL MID	NA	NA	NA
Sample Date			7/9/2020	7/9/2020	7/9/2020	7/9/2020	7/15/2020	NA	NA	NA
Sample Matrix			Spill	Spill	Spill	Spill	Spill	NA	NA	NA
Arsenic	0.39	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Barium	15,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	70	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	120,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Copper	3,100	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Silver	390	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
EC	4 or 2x background	mmhos/cm	NA	NA	NA	NA	NA	NA	NA	NA
pH	6-9	SU	8.28	7.87	8.57	9.4	7.68	NA	NA	NA
SAR	12	unitless	11.9	6.38	11	40.1	8.79	NA	NA	NA
TPH-DRO			NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO			NA	NA	NA	NA	NA	NA	NA	NA
TPH	500	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.17	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	85	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	175	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	1,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	0.22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	2.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.022	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	1,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA

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