

TABLE 1
L19-595 DUMPLINE RELEASE
SOIL ANALYTICAL RESULTS
CAERUS OIL AND GAS LLC
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20190808-L19-595- POR@6	20190826-L19 NWALL 10'	20190827-L19Stockpile	20190918-L19-595- SP01	L19-BGN-083111	L19-BGNW-083111	L19-BGW-083111	L19-BGSW-083111
Sample Date			8/8/2019	8/26/2019	8/27/2019	9/18/2019	8/31/2011	8/31/2011	8/31/2011	8/31/2011
Sample Matix			Point of Release	Confirmation	Stockpile	Stockpile	Background	Background	Background	Background
Arsenic	0.39	mg/kg	13	17.8	12.1	NA	15	31	22	13
Barium	15,000	mg/kg	500	359	340	NA	NA	NA	NA	NA
Cadmium	70	mg/kg	0.46	0.529	0.628	NA	NA	NA	NA	NA
Chromium (III)	120,000	mg/kg	25	25.2	29.5	NA	NA	NA	NA	NA
Chromium (VI)	23	mg/kg	<1.2	<2.00	<2.0	NA	NA	NA	NA	NA
Copper	3,100	mg/kg	33	30.3	27.2	NA	NA	NA	NA	NA
Lead	400	mg/kg	28	18.4	17.9	NA	NA	NA	NA	NA
Mercury	23	mg/kg	0.016	<0.0300	0.0404	NA	NA	NA	NA	NA
Nickel	1,600	mg/kg	27	21.5	21	NA	NA	NA	NA	NA
Selenium	390	mg/kg	0.91	<2.00	<2.00	NA	NA	NA	NA	NA
Silver	390	mg/kg	0.085	<1.00	<1.00	NA	NA	NA	NA	NA
Zinc	23,000	mg/kg	83	65.1	60.2	NA	NA	NA	NA	NA
EC	4 or 2x background	mmhos/cm	0.4	0.629	1.26	NA	NA	NA	NA	NA
pH	6-9	SU	7.96	8.57	8.05	NA	NA	NA	NA	NA
SAR	12	unitless	48	1.77	4.83	NA	NA	NA	NA	NA
TPH-DRO			820	8.33	218	223	NA	NA	NA	NA
TPH-GRO			2500	0.525	527	78.2	NA	NA	NA	NA
TPH	500	mg/kg	3320	8.855	745	301.2	NA	NA	NA	NA
Benzene	0.17	mg/kg	23	<0.00100	0.126	NA	NA	NA	NA	NA
Toluene	85	mg/kg	45	<0.00500	<1.0	NA	NA	NA	NA	NA
Ethylbenzene	100	mg/kg	19	<0.00250	<0.1	NA	NA	NA	NA	NA
Total Xylenes	175	mg/kg	340	<0.00650	15.7	NA	NA	NA	NA	NA
Acenaphthene	1,000	mg/kg	0.033	<0.00600	0.0148	NA	NA	NA	NA	NA
Anthracene	1,000	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Benz(a)anthracene	0.22	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.22	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	2.2	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.022	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Chrysene	22	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Fluoranthene	1,000	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Fluorene	1,000	mg/kg	0.18	<0.00600	0.0404	NA	NA	NA	NA	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA
Naphthalene	23	mg/kg	3.9	<0.0200	0.117	NA	NA	NA	NA	NA
Pyrene	1,000	mg/kg	<0.005	<0.00600	<0.006	NA	NA	NA	NA	NA

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