

TABLE 1
C16OU DUMPLINE RELEASE
EXCAVATION SOIL ANALYTICAL RESULTS
CAERUS OIL AND GAS LLC
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20200108-C16OU (N BOTTOM) @ 29'	20200108-C16OU (N WALL) @ 28'	20200108-C16OU (E WALL) @ 27'	20200108-C16OU (W WALL) @ 27'
Sample Date			1/8/2020	1/8/2020	1/8/2020	1/8/2020
Sample Matrix			Excavation	Excavation	Excavation	Excavation
Arsenic	0.39	mg/kg	NA	NA	NA	NA
Barium	15,000	mg/kg	NA	NA	NA	NA
Cadmium	70	mg/kg	NA	NA	NA	NA
Chromium (III)	120,000	mg/kg	NA	NA	NA	NA
Chromium (VI)	23	mg/kg	NA	NA	NA	NA
Copper	3,100	mg/kg	NA	NA	NA	NA
Lead	400	mg/kg	NA	NA	NA	NA
Mercury	23	mg/kg	NA	NA	NA	NA
Nickel	1,600	mg/kg	NA	NA	NA	NA
Selenium	390	mg/kg	NA	NA	NA	NA
Silver	390	mg/kg	NA	NA	NA	NA
Zinc	23,000	mg/kg	NA	NA	NA	NA
EC	4 or 2x background	mmhos/cm	3.75	3.28	3.65	4.04
pH	6-9	SU	9.17	8.87	8.72	9.03
SAR	12	unitless	47.2	25.7	53.3	22.8
TPH-DRO			9.69	<4.00	<4.00	<4.00
TPH-GRO			1.76	0.253	0.229	0.238
TPH	500	mg/kg	11.45	0.253	0.229	0.238
Benzene	0.17	mg/kg	0.00905	<0.00100	<0.00100	<0.00100
Toluene	85	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Ethylbenzene	100	mg/kg	<0.00250	<0.00250	<0.00250	<0.00250
Total Xylenes	175	mg/kg	<0.00650	<0.00650	<0.00650	<0.00650
Acenaphthene	1,000	mg/kg	NA	NA	NA	NA
Anthracene	1,000	mg/kg	NA	NA	NA	NA
Benzo(a)anthracene	0.22	mg/kg	NA	NA	NA	NA
Benzo(b)fluoranthene	0.22	mg/kg	NA	NA	NA	NA
Benzo(k)fluoranthene	2.2	mg/kg	NA	NA	NA	NA
Benzo(a)pyrene	0.022	mg/kg	NA	NA	NA	NA
Chrysene	22	mg/kg	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	NA	NA	NA	NA
Fluoranthene	1,000	mg/kg	NA	NA	NA	NA
Fluorene	1,000	mg/kg	NA	NA	NA	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	NA	NA	NA	NA
Naphthalene	23	mg/kg	NA	NA	NA	NA
Pyrene	1,000	mg/kg	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