

TABLE 1
H2-797 FLOWLINE RELEASE
SOIL ANALYTICAL RESULTS
CAERUS OIL AND GAS
PICEANCE BASIN, COLORADO

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20171101-H2-797- Bottom (6')	20171101-H2-797- SWALL (5')	20171109-H2-797- SWALL (4.5')	20171101-H2-797- EWALL (4')	20171101-H2-797- WWALL (5')	20171101-H2-797- NWALL (3')	AS 1*	AS 2*	AS 3*
Sample Date			11/1/2017	11/1/2017	11/9/2017	11/1/2017	11/1/2017	11/1/2017	5/4/2011	5/4/2011	5/4/2011
Sample Type			Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Background	Background	Background
Arsenic	0.39	mg/kg	9.2	8.1	NA	14	8.2	10	23	28	44
Barium	15,000	mg/kg	650	280	NA	410	230	330	NA	NA	NA
Cadmium	70	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Chromium (III)	120,000	mg/kg	37	40	NA	36	49	46	NA	NA	NA
Chromium (VI)	23	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Copper	3,100	mg/kg	17	12	NA	22	12	17	NA	NA	NA
Lead	400	mg/kg	10	10	NA	15	9.2	13	NA	NA	NA
Mercury	23	mg/kg	0.42	ND	NA	ND	ND	ND	NA	NA	NA
Nickel	1,600	mg/kg	19	21	NA	17	24	23	NA	NA	NA
Selenium	390	mg/kg	2.1	1.9	NA	2.1	1.7	1.7	NA	NA	NA
Silver	390	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Zinc	23,000	mg/kg	57	64	NA	67	59	73	NA	NA	NA
EC	4 or 2x background	mmhos/cm	9.6	4.8	NA	10	1.6	3.0	NA	NA	NA
pH	6-9	SU	8.74	8.30	NA	8.09	8.71	8.31	NA	NA	NA
SAR	12	unitless	35	3.1	NA	1.2	2.5	2.3	NA	NA	NA
TPH-DRO			2,300	24	NA	48	11	56	NA	NA	NA
TPH-GRO			8,300	91	NA	130	16	8.8	NA	NA	NA
TPH	500	mg/kg	10,600	115	NA	178	27	64.8	NA	NA	NA
Benzene	0.17	mg/kg	3.6	0.68	0.059	0.099	0.051	0.048	NA	NA	NA
Toluene	85	mg/kg	110	6.2	NA	1.9	0.65	0.41	NA	NA	NA
Ethylbenzene	100	mg/kg	40	1.1	NA	0.68	0.12	0.082	NA	NA	NA
Total Xylenes	175	mg/kg	810	20	NA	15	2.7	1.8	NA	NA	NA
Acenaphthene	1,000	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Anthracene	1,000	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Benz(a)anthracene	0.22	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Benzo(b)fluoranthene	0.22	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Benzo(k)fluoranthene	2.2	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Benzo(a)pyrene	0.022	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Chrysene	22	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Dibenzo(a,h)anthracene	0.022	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Fluoranthene	1,000	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Fluorene	1,000	mg/kg	0.46	ND	NA	ND	ND	ND	NA	NA	NA
Indeno(1,2,3,c,d)pyrene	0.22	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA
Naphthalene	23	mg/kg	10	0.39	NA	0.81	ND	0.38	NA	NA	NA
Pyrene	1,000	mg/kg	ND	ND	NA	ND	ND	ND	NA	NA	NA

Notes:

* These samples were collected from an undisturbed area near the Mesa 16 pad (COGCC Facility Number 335519)

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 - less than the stated reporting limit

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