

TABLE 1
1J
SOIL ANALYTICAL RESULTS
POTHOLE ASSESSMENT SAMPLES
GARFIELD COUNTY, COLORADO
NOBLE ENERGY

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	PH01@10'	PH01@28'	PH02@18'	PH02@25'	PH03@5'	PH03@15'
Sample Date			6/3/2014	6/3/2014	6/2/2014	6/2/2014	6/3/2014	6/3/2014
Sample Type			Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Arsenic	0.39	mg/kg	12.0	9.75	9.73	7.75	10.3	10.4
Barium	15,000	mg/kg	2,740	1,100	3,160	459	4,880	156
Cadmium	70	mg/kg	<1.14	<0.940	<0.873	<0.796	<0.957	<0.749
Chromium (III)	120,000	mg/kg	13.5	12.0	10.9	7.85	12.9	11.8
Chromium (VI)	23	mg/kg	<2.76	<2.43	<2.46	<2.35	<2.87	<2.37
Copper	3,100	mg/kg	23.8	20.9	20.6	16.5	34.3	23.6
Lead	400	mg/kg	16.5	11.3	12.7	9.61	14.1	18.7
Mercury	23	mg/kg	<0.0484	<0.0442	<0.0368	<0.0351	<0.0416	<0.0493
Nickel	1,600	mg/kg	25.2	25.1	18.1	17.6	20.9	25.4
Selenium	390	mg/kg	<0.571	<0.470	<0.437	<0.398	<0.478	<0.375
Silver	390	mg/kg	<1.14	<0.940	<0.873	<0.796	<0.957	<0.749
Zinc	23,000	mg/kg	<114	<94.0	<87.3	<79.6	<95.7	<74.9
EC	4.0	mmhos/cm	2.98	2.95	2.51	3.18	2.05	1.78
pH	6 - 9	SU	8.26	9.07	9.94	9.51	9.18	9.65
SAR	12	unitless	10.5	5.51	9.78	9.79	7.36	17.0
TPH-GRO		mg/kg	680	480	800	21	36	<0.50
TPH-DRO		mg/kg	4,300	570	1,300	140	170	<50
TPH	500	mg/kg	4,980	1,050	2,100	141	206	<50.50
Benzene	0.17	mg/kg	0.060	0.054	0.47	0.0029	0.019	<0.0020
Toluene	85	mg/kg	0.44	0.81	12	0.025	<0.0050	<0.0050
Ethylbenzene	100	mg/kg	0.89	0.68	4.3	0.042	0.10	0.0050
Total Xylenes	175	mg/kg	16	11	62	0.77	1.1	0.0050
Acenaphthene	1000	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	0.0170	<0.00500
Anthracene	1000	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Benzo(A)anthracene	0.22	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Benzo(B)fluoranthene	0.22	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Benzo(K)fluoranthene	2.2	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Benzo(A)pyrene	0.022	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Chrysene	22	mg/kg	0.150	0.0113	0.00995	<0.00500	0.00511	<0.00500
Dibenzo(A,H)anthracene	0.022	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Fluoranthene	1000	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Fluorene	1000	mg/kg	1.01	0.0916	<0.00500	0.0169	0.0581	<0.00500
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Naphthalene	23	mg/kg	7.04	0.905	1.64	0.101	0.162	<0.00500
Pyrene	1000	mg/kg	0.0728	0.00645	0.00808	<0.00500	0.0137	<0.00500

NOTES:

< - less than the stated reporting limit

BOLD - 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

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
1J
SOIL ANALYTICAL RESULTS
STOCKPILE CONFIRMATION SAMPLES
GARFIELD COUNTY, COLORADO
NOBLE ENERGY

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	20140618-C01	20140619-C01	20140620-C01	20140623-C01	20140624-C01	20140624-C02	20140625-C01	20140626-C01	20140627-C01
Sample Date			6/19/2014	6/20/2014	6/23/2014	6/24/2014	6/25/2014	6/25/2014	6/26/2014	6/27/2014	6/30/2014
Sample Type			Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation
Arsenic	0.39	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	15,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	70	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	120,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	3,100	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	390	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
EC	4.0	mmhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	6 - 9	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA
SAR	12	unitless	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO		mg/kg	38	17	12	9.0	30	15	29	16	11
TPH-DRO		mg/kg	<50	81	71	<50	56	<50	68	<50	62
TPH	500	mg/kg	38	98	83	9.0	86	15	97	16	73
Benzene	0.17	mg/kg	0.017	0.0055	<0.0020	<0.0020	0.027	0.011	0.014	<0.0020	<0.0020
Toluene	85	mg/kg	0.27	0.10	0.028	0.025	0.50	0.25	0.38	0.066	<0.0050
Ethylbenzene	100	mg/kg	0.11	0.041	0.019	0.015	0.16	0.082	0.15	0.041	<0.0050
Total Xylenes	175	mg/kg	1.9	0.96	0.50	0.42	6.1	1.4	2.1	0.72	0.044
Acenaphthene	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(A)anthracene	0.22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(B)fluoranthene	0.22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(K)fluoranthene	2.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(A)pyrene	0.022	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(A,H)anthracene	0.022	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	1000	mg/kg	NA	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	NA
Naphthalene	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

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NA - not analyzed

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 3
1J
SOIL ANALYTICAL RESULTS
EXCAVATION CONFIRMATION SAMPLES
GARFIELD COUNTY, COLORADO
NOBLE ENERGY

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	Southbottom@32'	Southwestwall@29'	Southwall@29'	Southeastwall@29'	Eastmiddlewall@29'	Middlebottom@31'	WestMiddleWall@29'	Northbottom@20'	Northeastwall@15'	Northwestwall@15'	Northwall@10'
Sample Date			6/24/2014	6/24/2014	6/24/2014	6/24/2014	6/25/2014	6/25/2014	6/26/2014	6/27/2014	6/27/2014	6/27/2014	6/27/2014
Sample Type			Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation
Arsenic	0.39	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	15,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	70	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	120,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	3,100	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	390	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EC	4.0	mmhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	6 - 9	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SAR	12	unitless	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO		mg/kg	2.9	0.67	<0.50	1.0	<0.50	3.3	<0.50	<0.50	<0.50	<0.50	4.1
TPH-DRO		mg/kg	<50	<50	<50	<50	<50	81	<50	<50	<50	<50	<50
TPH	500	mg/kg	2.9	0.67	<50.50	1.0	<50.50	84.3	<50.50	<50.50	<50.50	<50.50	4.1
Benzene	0.17	mg/kg	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0075	<0.0020	<0.0020	<0.0020	0.0038
Toluene	85	mg/kg	0.014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.012	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100	mg/kg	0.0080	<0.0050	<0.0050	0.0050	<0.0050	<0.0050	0.0091	<0.0050	<0.0050	<0.0050	0.011
Total Xylenes	175	mg/kg	0.17	0.070	0.024	0.10	0.018	0.12	0.12	<0.0050	<0.0050	<0.0050	0.064
Acenaphthene	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(A)anthracene	0.22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(B)fluoranthene	0.22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(K)fluoranthene	2.2	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(A)pyrene	0.022	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	22	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(A,H)anthracene	0.022	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	1000	mg/kg	NA	NA	NA	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	NA	NA	NA
Naphthalene	23	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1000	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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