

Table 1
CBU 29-12-397 Frac Sand Sampling
Mesa Energy Partners, LLC

SAMPLE SUMMARY				
Location Description	CBU 29-12-397			
Sample Type	Soil Composite			
Sample Date	4/22/2013			

LABORATORY DATA SUMMARY				
Sample ID	CBU 29-12 SS5	CBU 29-12 SS6	ALLOWABLE LIMITS	UNITS
Depth	2-6"	2-6"		
Analytical Parameters				
TPH				
TPH-GRO	ND	ND	NA	mg/kg
TPH-DRO	117	23.7	NA	mg/kg
Total TPH	117	23.7	500	mg/kg
BTEX				
Benzene	ND	ND	0.17	mg/kg
Toluene	0.162	ND	85	mg/kg
Ethylbenzene	0.0525	ND	100	mg/kg
Total Xylene	ND	ND	175	mg/kg
Metals				
Chromium, Hexavalent	ND	ND	23	mg/kg
Chromium, Trivalent	10.2	3.2	120,000	mg/kg
Arsenic	5.3	0.99	0.39	mg/kg
Barium	3270	274	15,000	mg/kg
Boron	11.3	6.4	NA	mg/kg
Cadmium	ND	ND	70	mg/kg
Chromium	10.2	3.2	NA	mg/kg
Copper	13.5	6.7	3,100	mg/kg
Lead	9.4	6.4	400	mg/kg
Mercury	ND	ND	1,600	mg/kg
Nickel	12.3	5.3	1,600	mg/kg
Selenium	ND	ND	390	mg/kg
Silver	ND	ND	390	mg/kg
Zinc	361	19.6	23,000	mg/kg
Polynuclear Aromatic Hyrdrocarbons				
Anthracene	ND	ND	1,000	mg/kg
Acenaphthene	ND	ND	1,000	mg/kg
Benzo(a)anthracene	ND	ND	0.22	mg/kg
Benzo(a)pyrene	ND	ND	0.022	mg/kg
Benzo(b)fluoranthene	ND	ND	0.22	mg/kg
Benzo(k)fluoranthene	ND	ND	2.2	mg/kg
Chrysene	0.0098	ND	22	mg/kg
Dibenzo(a,h)anthracene	ND	ND	0.022	mg/kg
Fluoranthene	ND	ND	1,000	mg/kg
Fluorene	ND	ND	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	0.22	mg/kg
Napthalene	0.0368	ND	23.00	mg/kg
Pyrene	0.0196	ND	1,000	mg/kg
General Chemistry				
Specific Conductivity	2.130	2.020	<4	mmhos/cm
SAR	13.9	10.2	<12	ratio
Redox Potential Vs H2	226	212	NA	mv
pH	8.42	8.64	6-9	su
Solids, Percent	74.1	81.3	NA	%

mg/kg - milligrams per kilogram

BDL - parameter was below the detection limit

umhos/cm - micromhos per centimeter

su - standard units

mv - millivolts