

TABLE 1
DRILL CUTTINGS SOIL ANALYTICAL RESULTS
GRMR PRODUCTION PAD PETER MCCUE 30-3
HAMILTON, COLORADO

| PARAMETER | COGCC CONCENTRATION LEVELS | UNITS | CS-01 | CS-02 | CS-03 |
|-------------------------|----------------------------------|----------|------------|-------------|-------------|
| Sample Date | | | 11/30/2016 | 11/30/2016 | 11/30/2016 |
| Sample Type | | | Composite | Composite | Composite |
| Arsenic | 0.39 | mg/kg | <10.0 | 6.77 | 10.3 |
| Barium | 15,000 | mg/kg | 6,110 | 570 | 4,540 |
| Cadmium | 70 | mg/kg | <2.50 | <0.500 | <2.50 |
| Chromium (III) | 120,000 | mg/kg | 14.4 | 12.5 | 15.3 |
| Chromium (VI) | 23 | mg/kg | <2.00 | <2.00 | <2.00 |
| Copper | 3,100 | mg/kg | 20.5 | 13.3 | 15.7 |
| Lead | 400 | mg/kg | 8.73 | 10.40 | 10.9 |
| Mercury | 23 | mg/kg | 0.0337 | <0.0200 | <0.0200 |
| Nickel | 1,600 | mg/kg | 22.0 | 14.4 | 20.2 |
| Selenium | 390 | mg/kg | <10.0 | <2.00 | <10.0 |
| Silver | 390 | mg/kg | <5.00 | <1.00 | <5.00 |
| Zinc | 23,000 | mg/kg | 52.3 | 46.9 | 44.2 |
| EC | 4.0 | mmhos/cm | 2.15 | 1.88 | 1.71 |
| pH | 6 - 9 | SU | 7.55 | 7.81 | 7.48 |
| SAR | 12 | unitless | 9.44 | 19.8 | 8.21 |
| TPH-GRO | | mg/kg | 1.25 | 0.937 | 1.27 |
| TPH-DRO | | mg/kg | 88.1 | 164 | 73.40 |
| TPH | 500 | mg/kg | 89.35 | 164,937 | 74.67 |
| Benzene | 0.17 | mg/kg | 0.00274 | 0.00169 | 0.00393 |
| Toluene | 85 | mg/kg | 0.00791 | 0.00549 | 0.0104 |
| Ethylbenzene | 100 | mg/kg | 0.00282 | 0.0014 | 0.00283 |
| Total Xylenes | 175 | mg/kg | 0.00994 | 0.0057 | 0.0128 |
| Acenaphthene | 1000 | mg/kg | 0.00949 | 0.00642 | 0.00695 |
| Anthracene | 1000 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Benzo(A)anthracene | 0.22 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Benzo(B)fluoranthene | 0.22 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Benzo(K)fluoranthene | 2.2 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Benzo(A)pyrene | 0.022 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Chrysene | 22 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Dibenzo(A,H)anthracene | 0.022 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Fluoranthene | 1000 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Fluorene | 1000 | mg/kg | 0.0206 | 0.00970 | 0.0154 |
| Indeno(1,2,3,C,D)pyrene | 0.22 | mg/kg | <0.00600 | <0.00600 | <0.00600 |
| Naphthalene | 23 | mg/kg | 0.134 | 0.0974 | 0.104 |
| Pyrene | 1000 | mg/kg | 0.0094 | <0.00600 | <0.00600 |

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

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

