# TABLE 5-2.1



MOSES LAKE MAINTENANCE FACILITY RIFS
CENTRAL PORTION SOURCE AREA SOIL
PETROLEUM HYDROCARBON, PCBs AND LEAD RESULTS

| Location | | | | TP-04 | | | | | | | | | | | | TP-05 | | | | | | | | | | TP-06 | | | | MW-16 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Identifier | | | | 0TP04-2.2,3.0,4.2,4.5 Comp. | | 0TP04-2.2 | | 0TP04-3.0 | | 0TP04-4.2 | | 0TP04-4.5 | | 0TP04-2 to 3 | | 0TP05-3.0,3.9 Comp. | | 1TP05-3.0, 3.9 Comp. | | 0TP05-3.0 | | 0TP05-3.9 | | 0TP05-4.5 | | 0TP06-4.0, 4.5 Comp. | | 0TP06-4.0 | | 0MW-16-4.5 to 6.0 | |
| Sample Type | | | | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | Dup | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q |
| Analyte | Method | MTCA Method A Cleanup Criteria (mg/kg)[a] | Ecological Concerns Criteria WAC 173-340 Table 749-2 (mg/kg)[b] | Concentration (mg/kg) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diesel Range | NWTPH-HCID | NA | NA | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 24 | U |
| Lube Oil Range | NWTPH-HCID | NA | NA | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | >60 | |
| Gasoline Range | NWTPH-HCID | NA | NA | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | >120 | |
| Diesel Range | NWTPH-Dx | 2,000 | 460 | 800 | | 2,200 | J | 1,500 | J | 300 | J | 230 | J | 1,700 | | 2,100 | | 1,900 | | 1,500 | J | 4,500 | J | 32 | UJ | 33 | U | N/A | - | 280 | |
| Lube Oil Range | NWTPH-Dx | 2,000 | NSA | 2,100 | | 5,800 | J | 5,700 | J | 1,000 | J | 830 | J | 3,700 | | 5,000 | | 4,700 | | 6,000 | J | 8,700 | J | 63 | UJ | 67 | | N/A | - | 1400 | |
| Gasoline Range | NWTPH-Gx | 30 / 100[b] | 200 | 230 | Z | 570 | U | 450 | U | 57 | Z | 50 | Z | 300 | Z | 27 | U | 27 | U | N/A | - | N/A | - | N/A | - | 5.8 | U | 6.6 | U | 90 | J |
| Methyl t-Butyl Ether (MTBE) | NWTPH-Gx | 0.1 | NSA | Results are | U | N/A | - | N/A | - | N/A | - | N/A | - | 0.060 | U | Results are | - | Results are | - | N/A | - | N/A | - | 0.059 | U | 0.058 | U | 0.066 | U | Results are | |
| Benzene | NWTPH-Gx | 0.03 | NSA | Presented on | U | N/A | - | N/A | - | N/A | - | N/A | - | 0.012 | U | Presented on | - | Presented on | - | N/A | - | N/A | - | 0.012 | U | 0.013 | | 0.013 | U | Presented on | |
| Toluene | NWTPH-Gx | 7 | NSA | Table 5.2.3 | U | N/A | - | N/A | - | N/A | - | N/A | - | 0.060 | U | Table 5.2.3 | - | Table 5.2.3 | - | N/A | - | N/A | - | 0.059 | U | 0.058 | U | 0.066 | U | Table 5.2.3 | |
| Ethyl Benzene | NWTPH-Gx | 6 | NSA | With | U | N/A | - | N/A | - | N/A | - | N/A | - | 0.27 | | With | - | With | - | N/A | - | N/A | - | 0.50 | | 0.058 | U | 0.066 | U | With | |
| m,p-Xylene | NWTPH-Gx | 9[c] | NSA | Other | U | N/A | - | N/A | - | N/A | - | N/A | - | 0.25 | | Other | - | Other | - | N/A | - | N/A | - | 0.49 | | 0.058 | U | 0.066 | U | other | |
| o-Xylene | NWTPH-Gx | 9[c] | NSA | VOCs | U | N/A | - | N/A | - | N/A | - | N/A | - | 0.23 | | VOCs | - | VOCs | - | N/A | - | N/A | - | 0.27 | | 0.058 | U | 0.066 | U | VOCs | |
| **Polychlorinated Biphenyls** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | EPA 8082 | 1.0[d] | NSA | 0.061 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 0.054 | U | 0.054 | U | 0.052 | U | 0.057 | U | 0.063 | U | N/A | - | 0.066 | U | 0.060 | U |
| Aroclor 1221 | EPA 8082 | 1.0[d] | NSA | 0.061 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 0.054 | U | 0.054 | U | 0.052 | U | 0.057 | U | 0.063 | U | N/A | - | 0.066 | U | 0.060 | U |
| Aroclor 1232 | EPA 8082 | 1.0[d] | NSA | 0.061 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 0.054 | U | 0.054 | U | 0.052 | U | 0.057 | U | 0.063 | U | N/A | - | 0.066 | U | 0.060 | U |
| Aroclor 1242 | EPA 8082 | 1.0[d] | NSA | 0.061 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 0.054 | U | 0.054 | U | 0.052 | U | 0.057 | U | 0.063 | U | N/A | - | 0.066 | U | 0.060 | U |
| Aroclor 1248 | EPA 8082 | 1.0[d] | NSA | 0.061 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 0.054 | U | 0.054 | U | 0.052 | U | 0.057 | U | 0.063 | U | N/A | - | 0.066 | U | 0.060 | U |
| Aroclor 1254 | EPA 8082 | 1.0[d] | NSA | 0.061 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 0.56 | | 0.46 | | 0.81 | | 0.40 | | 0.063 | U | N/A | - | 0.066 | U | 0.081 | |
| Aroclor 1260 | EPA 8082 | 1.0[d] | NSA | 0.061 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 0.054 | U | 0.054 | U | 0.052 | U | 0.057 | U | 0.063 | U | N/A | - | 0.066 | U | 0.060 | U |
| **Metals** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead | EPA 6010B | 250 | 220 | 43 | | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 220 | | 260 | | 330 | | 48 | | 7.5 | | 25 | | N/A | - | 87 | |

Note:
N - Normal sample.
Q - Validated data qualifier.
NSA - No standard available.
> - indicates that the analyte was detected above its practical quantitation limit (PQL).
Dup - Duplicate sample.
U - indicates that the analyte was not detected above its PQL.
J - indicates concentration is an estimated value.
Z - Gasoline results are being influenced by the presence of diesel range organics.
N/A - Not analyzed.
NA - Not Applicable.
a - Chapter 173-340 WAC Method A Compliance Cleanup Levels for unrestricted use.
* - Chapter 173-340-900 WAC Table 749-2 Priority Contaminants of Ecological Concern for Sites that Qualify for the Simplified Terrestrial Ecological Evaluation Procedure.
b - The MTCA Method A Compliance Cleanup Level for gasoline range petroleum hydrocarbons is 100 mg/kg if benzene is not present and the total of TEX is greater than 1%.
c - The MTCA Method A Cleanup Level is for total xylene, i.e. the sum of m,p-Xylene and o-Xylene.
d - Cleanup level is a total for all PCBs (aroclors) based on the concentration derived from Chapter 173-340 WAC equation 720-1.
Shading indicates the value exceeds one or more of the MTCA cleanup criteria.

**TABLE 5-2.2**

MOSES LAKE MAINTENANCE FACILITY RIFS
CENTRAL PORTION SOIL
PETROLEUM HYDROCARBON RESULTS

| Location | | | | GP-04 | | GP-05 | | GP-06 | | GP-07 | | GP-08 | | GP-09 | | | | GP-10 | | GP-11 | | GP-12 | | GP-13 | | GP-14 | | GP-15 | | GP-16 | | GP-27 | | GP-28 | | GP-29 | | MW-15 | | MW-17 | | | | MW-18 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Identifier | | | | 0GP04-3.0 to 3.5 | | 0GP05-3.0 to 3.5 | | 0GP06-2.5 to 2.8 | | 0GP07-2.9 to 3.25 | | 0GP08-3.0 to 3.3 | | 0GP09-3.5 to 4.0 | | 1GP09-3.5 to 4.0 | | 0GP10-3.5 to 4.0 | | 0GP11-3.5 to 4.0 | | 0GP12-3.0 to 3.25 | | 0GP13-3.0 to 3.25 | | 0GP14-3.5 to 4.0 | | 0GP15-3.5 to 4.0 | | 0GP16-3.5 to 4.0 | | 0GP27-16.0 to 16.4 | | 0GP28-13.0 to 13.6 | | 0GP29-17 to 17.5 | | 0MW-15-6.5 to 7.5 | | 0MW-17-5.0 | | 1MW-17-5.0 | | 0MW18-4 to 8 | |
| Sample Type | | | | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | Dup | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q | N | Q |
| Analyte | Method | MTCA Method Soil Cleanup Criteria (mg/kg)[a] | Ecological Concerns Criteria WAC 173-340 Table 749-2 (mg/kg)* | Concentration (mg/kg) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Petroleum Hydrocarbons** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diesel Range | NWTPH-HCID | NA | NA | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 23 | U | 23 | U | 22 | U | 24 | U |
| Lube Oil Range | NWTPH-HCID | NA | NA | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | 58 | U | 57 | U | 55 | U | 59 | U |
| Gasoline Range | NWTPH-HCID | NA | NA | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | >120 | | 110 | U | 110 | U | >120 | |
| Diesel Range | NWTPH-Dx | 2,000 | 460 | 32 | U | 33 | U | 32 | U | 29 | U | 170 | | 2,000 | | 5,700 | | 12,000 | | 150 | U | 31 | U | 31 | U | 28 | U | 29 | U | 28 | U | 33 | U | 35 | U | 32 | U | 29 | U | N/A | - | N/A | - | 29 | U |
| Lube Oil Range | NWTPH-Dx | 2,000 | NSA | 64 | U | 65 | U | 64 | U | 320 | | 1,500 | | 62.0 | U | 62 | U | 4,100 | | 490 | | 61 | U | 62 | U | 250 | | 75 | | 57 | U | 66 | U | 69 | U | 63 | U | 980 | | N/A | - | N/A | - | 270 | U |
| Gasoline Range | NWTPH-Gx | 30 / 100[b] | 200 | 6.4 | U | 6.5 | U | 6.4 | U | 5.9 | U | 5.6 | U | 1,300 | Z | 5,800 | Z | 5.9 | U | 5.8 | U | 6.1 | U | 6.2 | U | 5.6 | U | 5.8 | U | 5.7 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - |
| Methyl t-Butyl Ether (MTBE) | NWTPH-Gx | 0.1 | NSA | 0.064 | U | 0.065 | U | 0.064 | U | 0.059 | U | 0.056 | U | 0.120 | U | 0.120 | U | 0.059 | U | 0.058 | U | 0.061 | U | 0.062 | U | 0.056 | U | 0.058 | U | 0.057 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - |
| Benzene | NWTPH-Gx | 0.03 | NSA | 0.013 | U | 0.013 | U | 0.013 | U | 0.012 | U | 0.011 | U | 0.025 | U | 0.025 | U | 0.012 | U | 0.013 | | 0.012 | U | 0.012 | U | 0.011 | U | 0.012 | U | 0.019 | | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - |
| Toluene | NWTPH-Gx | 7 | NSA | 0.064 | U | 0.065 | U | 0.064 | U | 0.059 | U | 0.056 | U | 0.120 | U | 0.34 | | 0.059 | U | 0.058 | U | 0.061 | U | 0.062 | U | 0.056 | U | 0.058 | U | 0.057 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - |
| Ethyl Benzene | NWTPH-Gx | 6 | NSA | 0.064 | U | 0.065 | U | 0.064 | U | 0.059 | U | 0.056 | U | 0.59 | | 2.3 | | 0.50 | | 0.058 | U | 0.061 | U | 0.062 | U | 0.056 | U | 0.058 | U | 0.057 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - |
| m,p-Xylene | NWTPH-Gx | 9[c] | NSA | 0.064 | U | 0.065 | U | 0.064 | U | 0.059 | U | 0.056 | U | 2.7 | | 11 | | 0.49 | | 0.058 | U | 0.061 | U | 0.062 | U | 0.056 | U | 0.058 | U | 0.057 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - |
| o-Xylene | NWTPH-Gx | 9[c] | NSA | 0.064 | U | 0.065 | U | 0.064 | U | 0.059 | U | 0.056 | U | 7.7 | | 32 | | 0.27 | | 0.058 | U | 0.061 | U | 0.062 | U | 0.056 | U | 0.058 | U | 0.057 | U | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - | N/A | - |

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Q - Validated data qualifier.
NSA - No standard available.
N/A - Not analyzed.
Z - Gasoline results are being influenced by the presence of diesel range organics.
> - indicates that the analyte was detected above its practical quantitation limit (PQL).
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Shading indicates the value exceeds one or more of the MTCA cleanup criteria.