TABLE 1. CLEAN-UP AND REUSE CRITERIA AERA ENERGY LLC YORBA LINDA OIL FIELD

Residential Areas - Maximum Allowable Concentrations For Impacted Soil and Remediated Soil

| Depth from Final Grade | EPA Method Used to Verify Concentration* | Chemical Constituent | Allowable Concentration (mg/kg) |
|---------------------------|--|-------------------------|-----------------------------------|
| Surface to 15 feet | 418.1 8015M w/carbon chain | TRPH | 100 (screening tool only) |
| | identification from C ¹³ -C ²³ , inclusive | TPH | 100*** |
| | 8021b** 8015 | BTEX VFH | B=ND, T=0.1, E=0.68, X=1.75 ND |
| Greater than 15 feet | 418.1 8015M w/carbon chain | TRPH | 5,000 |
| | identification from C ¹³ -C ²³ , inclusive 8021b** | TPH BTEX | 5,000 |
| | 8015 | VFH | B=0.10, T=10, E=68, X=175 100 |

Non-Residential Areas (Streets, Parking Lots, Greenbelts) - Maximum Allowable Concentrations For Impacted Soil and Remediated Soil

| Depth from Final | EPA Method Used to Chemical Allowable Consentration | | | |
|--|--|-------------|-----------------------------|--|
| Grade | And the second s | Chemical | Allowable Concentration | |
| A CONTRACTOR OF THE PARTY OF TH | Verify Concentration* | Constituent | (mg/kg) | |
| Surface to 15 feet | 418.1 | TRPH | 1,000 (screening tool only) | |
| | 8015M w/carbon chain | | 1,000 (screening tool only) | |
| | identification from C ¹³ -C ²³ , | | | |
| | inclusive | TPH | 1000 | |
| | 8021b** | BTEX | B=ND,T=0.1,E=0.68,X=1.75 | |
| | 8015 | VFH | 100 | |
| Greater than 15 feet | 418.1 | TRPH | 15.000 | |
| | 8015M w/carbon chain | | 70,000 | |
| | identification from C13-C23, | | | |
| | inclusive | TPH | 5,000 | |
| | ACCURAGE VIII. 474.55 | | EPA Residential PRG's | |
| | 8021b** | BTEX | B=0.65, T=520, E=230, X=210 | |
| | 8015 | VFH | 500 | |

- Based on the type of hydrocarbon impact encountered one or more of these analysis may be required
- · Positive results confirmed with EPA Method 8260
- *** 1 000 mg/kg allowed if the soil has no apparent hydrocarbon odor or stain, if odor or staining is apparent, 100 mg/kg will be used

TRPH - Total Recoverable Petroleum Hydrocarbons

TPH - Total Petroleum Hydrocarbons (C13-C23)

BTEX - Benzene Toluene, Ethylbenzene and Total Xylenes

VFH - Volable Fuel Hydrocarbons

mg/kg - milligrams per kilogram

ND - Non-delect

PNAs - Polynuciear Aromatics

Asphaltic Fill Materials and Remediated Soil will be placed at least 15 feet below Final Grade

Greater than 25 feet below Final Grade - concentrations shall meet EPA Residential PRG's TRPH.TPH up to

onsile concentrations. VFH not to exceed 500 mg/kg.

Mr. L. Lodrigueza/OCHCA July 9, 1998 page 5

Table 1. Maximum Allowable Concentrations for Soil in Non-Residential Areas, Paved Roads and Open Spaces (excluding the Proposed School Lot)

| Open spaces (excludi | ng the Proposed School Lot) | |
|--|--|--------------------------------|
| Depth From Final Grade | Analysis EPA Method/Constituent | Concentration (mg/kg) |
| less than or equal to 3.5 feet | 418.1/TRPH | 1,000* |
| | 8015/TPH-cc/id (C ₁₃ -C ₂₃ inclusive) | 1,000* |
| ъ н | 8020/BTEX | B=nd, $T=nd$, $E=nd$, $X=nd$ |
| * | 8015/VFH (C ₄ -C ₁₂ inclusive) | ИД |
| greater than 3.5 feet and/or depth of buried utilities but less than or equal to 10 feet ÷ | 418.1/TRPH | 15,000 |
| * | 8015/TPH-cc/id (C ₁₃ -C ₂₃ "11-lusive) | 15,000 |
| • | 8020/BTEX | B=0.1, T=10.0, E=68.0, X=175.0 |
| * | 8015/VFH (C ₄ -C ₁₂ inclusive) | 400 |
| greater than 10 feet and/or greater than depth of buried utilities ÷ | 418.1/TRPH | 15,000 |
| | 8015/TPH-cc/id (C ₁₃ -C ₂₃ inclusive) | 15,000 |
| • | 8020/BTEX | B=0.4, T=10.0, E=68.0, X=175.0 |
| • | 8015/VFH (C4-C12 inclusive) | 600 |

No:=1:

- if odors are apparent the concentration will be 100 mg/kg - visual staining of highly weathered particles is acceptable

- final depth of remediated soil will be such that potential emposure through future excavation acitivites will be minimized

mg/kg - milligrams per kilogram ce/id - carbon chain identification

nd - not detected

EPA - Environmental Protection Agency
TRPH - total recoverable petroleum hydrocarbons
VFH - volatile fuel hydrocarbons, C₄-C₁₂ inclusive
TPH - total petroleum hydrocarbons, C₁₃-C₂₃ inclusive
BTEX - benzene, toluene, ethylbenzene, and total xylenes

Mr. L. Lodrigueza/OCHCA July 9, 1998 page 6

Table 2. Maximum Allowable Concentrations For Soil

| Within Residential L | ots and The Planned School Lot Area | 1 |
|---|---|---|
| Depth From Final Grade | Analysis EPA Method/Constituent | Concentration (mg/kg) |
| less than or equal to 3.5 feet | 418.1/TRPH | 100 |
| * | 8015/TPH-cc/id (C13-C23 inclusive) | 100 |
| × * | 8020/BTEX | B=n/l, $T=nd$, $E=nd$, $X=nd$ |
| | 8015/VFH (C ₄ -C ₁₂ inclusive) | nd |
| greater than 3.5 feet but less than or equal to 10 feet | 418.1/TRPH . | 500* |
| F 1 | 8015/TPH-cc/id (C13-C23 inclusive) | 500* |
| • | 8020/BTEX | $B=n\alpha$, $T=n\alpha$, $E=n\alpha$, $X=n\alpha$ |
| * | 8015/VFH (C ₄ -C ₁₂ inclusive) | nd |
| greater than 10 feet but less than or equal to 15 feet | 418.1/TRPH | 15,000 |
| 4 | 8015/TPH-cc/id (C ₁₃ -C ₂₃ inclusive) | 15,000 |
| * | 8020/BTEX | $B = nd$, $\Gamma = 0.1$, $E = 0.68$, $X = 1.75$ |
| | 8015/VFH (C ₄ -C ₁₂ inclusive) | 100 |
| greater than 15 feet and greater than depail of 5 tried utilities | 418.1/TRPH | 15,000 |
| • | 8015/TPH-cc/id (C ₁₃ -C ₂₃ inclusive) | 15,000 |
| * | 8020/BTEX | B=0.4, T=10.0, E=68.0, X=175.0 |
| | 8015/VFH (C ₄ -C ₁₂ inclusive) | 600 |

Notes:

- if odors or visual staining are apparent the concentration will be 100 mg/kg

mg/kg - milligrams per kilogram - carbon chain identification

nd - not detected

EPA - Environmental Protection Agency

TRPH - total recoverable petroleum hydrocarbons

VFH - volatile fuel hydrocarbons, C₄-C₁₂ inclusive

TPH - total petroleum hydrocarbons, carbon chain identification, C₁₃-C₂₃ inclusive

BTEX - benzene, toluene, ethylbenzene, and total xylenes