

APPENDIX E

| STANDARDS/ACTION LEVELS FOR CONFIRMATORY SAMPLES COLLECTED AT CLOSURE SITE ASSESSMENTS | | |
|---|---|---|
| ***No Water Encountered*** | | |
| Parameter | Unsaturated Soil Standard/Action Level (mg/kg) | Standard for Reuse of Soil On-site (mg/kg) |
| Anthracene | 350 | 350 |
| Benzene | 0.5 | 0.5 |
| Benzo[a]anthracene | 6/430 | 6/130 |
| Benzo[a]pyrene | 0.58/46 | 0.58/12 |
| Benzo[b]fluoranthene | 3.5/170 | 3.5/76 |
| Benzo[g,h,i]perylene | 180 | 180 |
| Chrysene | 35/230 | 35/230 |
| Cumene | 600/2,500 | 600/2,500 |
| Dibromoethane, 1,2- (Ethylene dibromide) | 0.005 | 0.005 |
| Dichloroethane, 1,2- | 0.5 | 0.5 |
| Ethyl benzene | 70 | 70 |
| Fluorene | 3,400/3,800 | 3,400/3,800 |
| Indeno[1,2,3-cd]pyrene | 3.5/22,000 | 3.5/76 |
| Lead (total) | 450 | 450 |
| Methyl tert-butyl ether (MTBE) | 2 | 2 |
| Naphthalene | 25 | 25 |
| Phenanthrene | 10,000 | 10,000 |
| Pyrene | 2,200 | 2,200 |
| Toluene | 100 | 100 |
| Trimethyl benzene, 1,3,4- (trimethyl benzene, 1,2,4-) | 8.4/35 | 8.4/35 |
| Trimethyl benzene, 1,3,5- | 74/210 | 74/210 |
| Xylenes (total) | 1,000 | 1,000 |

Note: In cases where two numbers are shown for a parameter's soil standard/action level, the lower number applies to residential sites and the higher number applies to non-residential sites.

Because only a limited site characterization is required to be conducted in localized contamination situations, the more conservative statewide standards are presented. For instance, in soil, the confirmatory sampling will be assumed to be conducted within 2 to 15 feet of the surface. Therefore, the more stringent of the direct contact or highest soil to groundwater numeric values will apply. Where the soil to groundwater values apply, it will be assumed that the aquifer is used with a TDS < or = 2,500. It will also be assumed that any soil reused on-site will be placed back in the excavation to grade and/or spread on the site. All sample results must attain the statewide standards. Please recognize that the standards presented above are based on these assumptions. Depending on the particular contamination situation, different statewide standards may apply or other cleanup options may be available.

**STANDARDS/ACTION LEVELS FOR CONFIRMATORY SAMPLES
COLLECTED AT CLOSURE SITE ASSESSMENTS**

*****Water Encountered*****

| Parameter | Saturated Soil Standard/Action Level¹ (mg/kg) | Unsaturated Soil Standard/Action Level (mg/kg) | Water Standard/Action Level (ug/l) | Standard for Reuse of Soil On-site (mg/kg) |
|--|---|---|---|---|
| Anthracene | 35 | 350 | 66 | 35 |
| Benzene | 0.5 | 0.5 | 5 | 0.5 |
| Benzo[a]anthracene | 2.8/43 | 6/430 | 0.32 | 2.8/43 |
| Benzo[a]pyrene | 0.58/4.6 | 0.58/46 | 0.2 | 0.58/4.6 |
| Benzo[b]fluoranthene | 2.6/17 | 3.5/170 | 0.19 | 2.6/17 |
| Benzo[g,h,i]perylene | 18 | 180 | 0.26 | 18 |
| Chrysene | 23 | 35/230 | 1.9 | 23 |
| Cumene | 84/350 | 600/2,500 | 840 | 84/350 |
| Dibromoethane, 1,2- (Ethylene dibromide) | 0.005 | 0.005 | 0.05 | 0.005 |
| Dichloroethane, 1,2- | 0.5 | 0.5 | 5 | 0.5 |
| Ethyl benzene | 70 | 70 | 700 | 70 |
| Fluorene | 340/380 | 3,400/3,800 | 1,700 | 340/380 |
| Indeno[1,2,3-cd]pyrene | 3.5/2,200 | 3.5/22,000 | 0.19 | 3.5/76 |
| Lead (dissolved) | | | 5 | |
| Lead (total) | 45 | 450 | | 45 |
| Methyl tert-butyl ether (MTBE) | 2 | 2 | 20 | 2 |
| Naphthalene | 10 | 25 | 100 | 10 |
| Phenanthrene | 1,000 | 10,000 | 1,100 | 1,000 |
| Pyrene | 220 | 2,200 | 130 | 220 |
| Toluene | 100 | 100 | 1,000 | 100 |
| Trimethyl benzene, 1,3,4- (Trimethyl benzene, 1,2,4-) | 1.5/6.2 | 8.4/35 | 15 | 1.5/6.2 |
| Trimethyl benzene, 1,3,5- | 42/120 | 74/210 | 420 | 42/120 |
| Xylenes (total) | 1,000 | 1,000 | 10,000 | 1,000 |

¹ These standards apply to soil/water interface samples only.

Note: In cases where two numbers are shown for a parameter's soil standard/action level, the lower number applies to residential sites and the higher number applies to non-residential sites.

Because only a limited site characterization is required to be conducted in localized contamination situations, the more conservative statewide standards are presented. For instance, in soil, the confirmatory sampling will be assumed to be conducted within 2 to 15 feet of the surface. Therefore, the more stringent of the direct contact or highest soil to groundwater numeric values will apply. Where the soil to groundwater values apply, it will be assumed that the aquifer is used with a TDS < or = 2,500. More stringent standards may apply to samples collected at the soil/water interface. Where water is encountered, it will be assumed to be groundwater in a used aquifer with a TDS < or = 2,500. Where any soil is reused on-site, it will be assumed that the soil will be placed back in the excavation to grade and/or spread on the site.

All sample results must attain the statewide standards. Please recognize that the standards presented above are based on these assumptions. Depending on the particular contamination situation, different statewide standards may apply or other cleanup options may be available.