

**Table 2.4-1 Reference List of Potentially Applicable Analytes and Associated Screening Levels
Management Protocol for Handling and Disposition of Displaced Material (rev. June 2026)**

PG&E Topock Compressor Station, Needles, California

| [Group] Analyte | Unit | Soil Management Screening Level ^a | Screening Level Source ^a |
|--|-------|--|--|
| <i>Dioxins and Furans (ng/kg)</i> | | | |
| 1,2,3,4,6,7,8-HpCDD | ng/kg | NE | Not Established |
| 1,2,3,4,6,7,8-HpCDF | ng/kg | NE | Not Established |
| 1,2,3,4,7,8,9-HpCDF | ng/kg | NE | Not Established |
| 1,2,3,4,7,8-HxCDD | ng/kg | NE | Not Established |
| 1,2,3,4,7,8-HxCDF | ng/kg | NE | Not Established |
| 1,2,3,6,7,8-HxCDD | ng/kg | NE | Not Established |
| 1,2,3,6,7,8-HxCDF | ng/kg | NE | Not Established |
| 1,2,3,7,8,9-HxCDD | ng/kg | NE | Not Established |
| 1,2,3,7,8,9-HxCDF | ng/kg | NE | Not Established |
| 1,2,3,7,8-PeCDD | ng/kg | NE | Not Established |
| 1,2,3,7,8-PeCDF | ng/kg | NE | Not Established |
| 2,3,4,6,7,8-HxCDF | ng/kg | NE | Not Established |
| 2,3,4,7,8-PeCDF | ng/kg | NE | Not Established |
| 2,3,7,8-TCDD | ng/kg | 8800 | Topock-Specific Soil Ecological Risk-based Concentration (RBC) |
| 2,3,7,8-TCDF | ng/kg | NE | Not Established |
| OCDD | ng/kg | NE | Not Established |
| OCDF | ng/kg | NE | Not Established |
| TEQ Avian | ng/kg | 217 | Topock-Specific Soil Ecological RBC |
| TEQ Human | ng/kg | 83 | Topock-Specific Soil Human Health RBC |
| TEQ Mammals | ng/kg | 192 | Topock-Specific Soil Ecological RBC |
| <i>Metals (mg/kg)</i> | | | |
| Aluminum | mg/kg | 16,400 | Topock-Specific Background Level |
| Antimony | mg/kg | 2.8 | Topock-Specific Soil Ecological RBC |
| Arsenic | mg/kg | 18 | Topock-Specific Soil Ecological RBC |
| Barium | mg/kg | 410 | Topock-Specific Background Level |
| Beryllium | mg/kg | 10 | Topock-Specific Soil Ecological RBC |
| Cadmium | mg/kg | 5.9 | Topock-Specific Soil Ecological RBC |
| Calcium | mg/kg | 66,500 | Topock-Specific Background Level |
| Chromium, Hexavalent | mg/kg | 8.1 | Topock-Specific Soil Ecological RBC |
| Chromium, total | mg/kg | 57 | Topock-Specific Soil Ecological RBC |
| Cobalt | mg/kg | 13 | Topock-Specific Soil Ecological RBC |
| Copper | mg/kg | 70 | Topock-Specific Soil Ecological RBC |
| Cyanide | mg/kg | 0.9 | Topock-Specific Soil Ecological RBC |
| Iron | mg/kg | 29,303 | Topock-Specific Soil Ecological RBC |

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|---------------------------|-------|--|--|
| Lead | mg/kg | 36 | Topock-Specific Soil Ecological RBC |
| Magnesium | mg/kg | 12,100 | Topock-Specific Background Level |
| Manganese | mg/kg | 402 | Topock-Specific Background Level |
| Mercury | mg/kg | 0.1 | Topock-Specific Soil Ecological RBC |
| Molybdenum | mg/kg | 2 | Topock-Specific Soil Ecological RBC |
| Nickel | mg/kg | 27.3 | Topock-Specific Background Level |
| Potassium | mg/kg | 4,400 | Topock-Specific Background Level |
| Selenium | mg/kg | 1.47 | Topock-Specific Background Level |
| Silver | mg/kg | 52 | Topock-Specific Soil Ecological RBC |
| Sodium | mg/kg | 2,070 | Topock-Specific Background Level |
| Thallium | mg/kg | 4.56 | Topock-Specific Background Level |
| Vanadium | mg/kg | 52.2 | Topock-Specific Background Level |
| Zinc | mg/kg | 120 | Topock-Specific Soil Ecological RBC |
| Pesticides (µg/kg) | | | |
| 4,4-DDD | ug/kg | 21 | Soil Ecological Comparison Value (ECV) |
| 4,4-DDE | ug/kg | 10 | Topock-Specific Soil Ecological RBC |
| 4,4-DDT | ug/kg | 10 | Topock-Specific Soil Ecological RBC |
| Aldrin | ug/kg | 39 | EPA Residential RSL |
| alpha-BHC | ug/kg | 86 | EPA Residential RSL |
| alpha-Chlordane | ug/kg | 4.3 | Topock-Specific Soil Ecological RBC |
| beta-BHC | ug/kg | 300 | EPA Residential RSL |
| delta-BHC | ug/kg | 300 | EPA Residential RSL |
| Dieldrin | ug/kg | 50 | Topock-Specific Soil Ecological RBC |
| Endo sulfan I | ug/kg | 470,000 | EPA Residential RSL |
| Endo sulfan II | ug/kg | 470,000 | EPA Residential RSL |
| Endosulfan sulfate | ug/kg | 380,000 | EPA Residential RSL |
| Endrin | ug/kg | 19,000 | EPA Residential RSL |
| Endrin aldehyde | ug/kg | 19,000 | EPA Residential RSL |
| Endrin ketone | ug/kg | 19,000 | EPA Residential RSL |
| gamma-BHC (Lindane) | ug/kg | 57 | EPA Residential RSL |
| gamma-Chlordane | ug/kg | 4.3 | Topock-Specific Soil Ecological RBC |
| Heptachlor | ug/kg | 130 | EPA Residential RSL |
| Heptachlor Epoxide | ug/kg | 70 | EPA Residential RSL |
| Methoxychlor | ug/kg | 320,000 | DTSC Residential RSL |
| Toxaphene | ug/kg | 450 | DTSC HHRA Note 3 |

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| [Group] Analyte | Unit | Soil Management Screening Level ^a | Screening Level Source ^a |
|--|-------|--|---------------------------------------|
| <i>Polyaromatic Hydrocarbons (µg/kg)</i> | | | |
| 1-Methyl naphthalene | ug/kg | 130,000 | Topock-Specific Soil Human Health RBC |
| 2-Methyl naphthalene | ug/kg | SC (1,900,000) | Topock-Specific Soil Human Health RBC |
| Acenaphthene | ug/kg | SC (67,000,000) | Topock-Specific Soil Human Health RBC |
| Acenaphthylene | ug/kg | SC (72,000,000) | Topock-Specific Soil Human Health RBC |
| Anthracene | ug/kg | SC (350,000,000) | Topock-Specific Soil Human Health RBC |
| B(a)P Equivalent | ug/kg | 2,300 | Topock-Specific Soil Human Health RBC |
| Benzo (a) anthracene | ug/kg | SC (36,000,000) | Topock-Specific Soil Human Health RBC |
| Benzo (a) pyrene | ug/kg | SC (43,000) | Topock-Specific Soil Human Health RBC |
| Benzo (b) fluoranthene | ug/kg | SC (21,000,000) | Topock-Specific Soil Human Health RBC |
| Benzo (ghi) perylene | ug/kg | SC (21,000,000) | Topock-Specific Soil Human Health RBC |
| Benzo (k) fluoranthene | ug/kg | SC (21,000,000) | Topock-Specific Soil Human Health RBC |
| Chrysene | ug/kg | SC (21,000,000) | Topock-Specific Soil Human Health RBC |
| Dibenzo (a,h) anthracene | ug/kg | SC (43,000) | Topock-Specific Soil Human Health RBC |
| Fluoranthene | ug/kg | SC (48,000,000) | Topock-Specific Soil Human Health RBC |
| Fluorene | ug/kg | SC (46,000,000) | Topock-Specific Soil Human Health RBC |
| Indeno (1,2,3-cd) pyrene | ug/kg | SC (21,000,000) | Topock-Specific Soil Human Health RBC |
| Napthalene | ug/kg | 30,000 | Topock-Specific Soil Human Health RBC |
| PAH High molecular weight | ug/kg | 1,200 | Topock-Specific Soil Ecological RBC |
| PAH Low molecular weight | ug/kg | 10,000 | Topock-Specific Soil Ecological RBC |
| Phenanthrene | ug/kg | SC (360,000,000) | Topock-Specific Soil Human Health RBC |
| Pyrene | ug/kg | SC (36,000,000) | Topock-Specific Soil Human Health RBC |
| <i>Polychlorinated Biphenyls (µg/kg)</i> | | | |
| Aroclor 1016 | ug/kg | 4,100 | EPA Residential RSL |
| Aroclor 1221 | ug/kg | 200 | EPA Residential RSL |
| Aroclor 1232 | ug/kg | 170 | EPA Residential RSL |
| Aroclor 1242 | ug/kg | 230 | EPA Residential RSL |
| Aroclor 1248 | ug/kg | 230 | EPA Residential RSL |
| Aroclor 1254 | ug/kg | 240 | EPA Residential RSL |
| Aroclor 1260 | ug/kg | 240 | EPA Residential RSL |
| Aroclor 1262 | ug/kg | 240 | EPA Residential RSL |
| Aroclor 1268 | ug/kg | 240 | EPA Residential RSL |
| Total PCBs | ug/kg | 1,000 | Topock-Specific Soil Ecological RBC |
| <i>Semivolatile Organic Compounds (µg/kg)</i> | | | |

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| [Group] Analyte | Unit | Soil Management Screening Level ^a | Screening Level Source ^a |
|------------------------------|-------|--|-------------------------------------|
| 1,1'-Biphenyl | ug/kg | 47,000 | EPA Residential RSL |
| 1,2,4,5-Tetrachlorobenzene | ug/kg | 17,000 | DTSC Residential RSL |
| 1,4-Dioxane | ug/kg | 5,300 | EPA Residential RSL |
| 2,3,4,6-Tetrachlorophenol | ug/kg | 1,900,000 | EPA Residential RSL |
| 2,4,5-Trichlorophenol | ug/kg | 6,300,000 | EPA Residential RSL |
| 2,4,6-Trichlorophenol | ug/kg | 7,800 | DTSC Residential SL |
| 2,4-Dichlorophenol | ug/kg | 190,000 | EPA Residential RSL |
| 2,4-Dimethylphenol | ug/kg | 34,900 | Topock-Specific Soil Ecological RBC |
| 2,4-Dinitrophenol | ug/kg | 130,000 | EPA Residential RSL |
| 2,4-Dinitrotoluene | ug/kg | 1,700 | EPA Residential RSL |
| 2,6-Dinitrotoluene | ug/kg | 360 | EPA Residential RSL |
| 2-Chloronaphthalene | ug/kg | 4,100,000 | DTSC Residential SL |
| 2-Chlorophenol | ug/kg | 340,000 | DTSC Residential SL |
| 2-Methylphenol (o-Cresol) | ug/kg | 3,200,000 | EPA Residential RSL |
| 2-Nitroaniline | ug/kg | 630,000 | EPA Residential RSL |
| 3,3-Dichlorobenzidene | ug/kg | 450 | DTSC Residential SL |
| 3-Nitroaniline | ug/kg | 630,000 | EPA Residential RSL |
| 4,6-Dinitro-2-methylphenol | ug/kg | 5,100 | EPA Residential RSL |
| 4-Chloro-3-methylphenol | ug/kg | 6,300,000 | EPA Residential RSL |
| 4-Chloroaniline | ug/kg | 2,700 | EPA Residential RSL |
| 4-Methylphenol (p-Cresol) | ug/kg | 1,630,000 | Topock-Specific Soil Ecological RBC |
| 4-Nitroaniline | ug/kg | 27,000 | EPA Residential RSL |
| Acetophenone | ug/kg | 6,000,000 | DTSC-Residential SL |
| Atrazine | ug/kg | 2,400 | EPA Residential RSL |
| Benzaldehyde | ug/kg | 46,000 | DTSC Residential SL |
| Benzoic acid | ug/kg | 250,000,000 | EPA Residential RSL |
| Benzyl alcohol | ug/kg | 6,300,000 | EPA Residential RSL |
| Bis (2-chloroethoxy) methane | ug/kg | 190,000 | EPA Residential RSL |
| Bis (2-ethylhexyl) phthalate | ug/kg | 29,000 | Topock-Specific Soil Ecological RBC |
| Butyl benzyl phthalate | ug/kg | 900,000 | Topock-Specific Soil Ecological RBC |
| Caprolactam | ug/kg | 31,000,000 | EPA Residential RSL |
| Carbazole | ug/kg | 790,000 | Topock-Specific Soil Ecological RBC |
| Dibenzofuran | ug/kg | 48,900 | Topock-Specific Soil Ecological RBC |
| Diethyl phthalate | ug/kg | 51,000,000 | EPA Residential RSL |
| Dimethyl phthalate | ug/kg | 51,000,000 | EPA Residential RSL |

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| [Group] Analyte | Unit | Soil Management Screening Level ^a | Screening Level Source ^a |
|---|-------|--|---|
| Di-N-butyl phthalate | ug/kg | 470 | Topock-Specific Soil Ecological RBC |
| Di-N-octyl phthalate | ug/kg | 630,000 | EPA Residential RSL |
| Hexachlorobenzene | ug/kg | 190 | DTSC Residential SL |
| Hexachloroethane | ug/kg | 1,800 | EPA Residential RSL |
| N-Nitroso-di-n-propylamine | ug/kg | 78 | EPA Residential RSL |
| N-nitrosodiphenylamine | ug/kg | 110,000 | EPA Residential RSL |
| Pentachlorophenol | ug/kg | 5,000 | Topock-Specific Soil Ecological RBC |
| Phenol | ug/kg | 19,000,000 | EPA Residential RSL |
| Total Petroleum Hydrocarbons (mg/kg) | | | |
| TPH as diesel | mg/kg | SC (1,600) | Topock-Specific Soil Human Health RBC |
| TPH as gasoline | mg/kg | 430 | SF RWQCB ESL for direct exposure (Jan 2019) |
| TPH as motor oil | mg/kg | SC (150,000) | Topock-Specific Soil Human Health RBC |
| Volatile Organic Compounds (µg/kg) | | | |
| 1,1,1,2-Tetrachloroethane | ug/kg | 2,000 | EPA Residential SL |
| 1,1,1-Trichloroethane | ug/kg | 1,700,000 | DTSC Residential SL |
| 1,1,2,2-Tetrachloroethane | ug/kg | 600 | EPA Residential SL |
| 1,1,2-Trichloroethane | ug/kg | 1,100 | EPA Residential RSL |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | ug/kg | 6,700,000 | EPA Residential RSL |
| 1,1-Dichloroethane | ug/kg | 3,600 | EPA Residential SL |
| 1,1-Dichloroethene | ug/kg | 4,800 | EPA Residential RSL |
| 1,1-Dichloropropene | ug/kg | 1,800 | EPA Residential RSL |
| 1,2,3-Trichlorobenzene | ug/kg | 40,000 | DTSC Residential SL |
| 1,2,3-Trichloropropane | ug/kg | 1.5 | DTSC Residential SL |
| 1,2,4-Trichlorobenzene | ug/kg | 7,800 | DTSC Residential SL |
| 1,2,4-Trimethylbenzene | ug/kg | 397,000 | Topock-Specific Soil Ecological RBC |
| 1,2-Dibromo-3-chloropropane | ug/kg | 4.3 | DTSC Residential SL |
| 1,2-Dibromoethane | ug/kg | 36 | DTSC Residential SL |
| 1,2-Dichlorobenzene | ug/kg | 1,800,000 | EPA Residential RSL |
| 1,2-Dichloroethane | ug/kg | 460 | EPA Residential RSL |
| 1,2-Dichloropropane | ug/kg | 2,500 | EPA Residential RSL |
| 1,3,5-Trimethylbenzene | ug/kg | 397,000 | Topock-Specific Soil Ecological RBC |
| 1,3-Dichlorobenzene | ug/kg | 2,600 | EPA Residential RSL |
| 1,3-Dichloropropane | ug/kg | 410,000 | DTSC Residential SL |
| 1,4-Dichlorobenzene | ug/kg | 2,600 | EPA Residential RSL |
| 2,2-Dichloropropane | ug/kg | 2,500 | EPA Residential RSL |

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|-------------------------------|-------|--|---------------------------------------|
| 2-Chlorotoluene | ug/kg | 470,000 | DTSC Residential SL |
| 2-Hexanone | ug/kg | 200,000 | EPA Residential RSL |
| 4-Isopropyltoluene | ug/kg | 170,000 | EPA Residential RSL |
| Acetone | ug/kg | 8,856,000 | Topock-Specific Soil Ecological RBC |
| Acrolein | ug/kg | 140 | EPA Residential RSL |
| Acrylonitrile | ug/kg | 250 | EPA Residential RSL |
| Benzene | ug/kg | 330 | DTSC Residential SL |
| Bis (2-chloroethyl) ether | ug/kg | 100 | DTSC Residential SL |
| Bis (2-chloroisopropyl) ether | ug/kg | 2,000,000 | DTSC Residential SL |
| Bromobenzene | ug/kg | 290,000 | EPA Residential RSL |
| Bromochloromethane | ug/kg | 150,000 | EPA Residential RSL |
| Bromodichloromethane | ug/kg | 290 | DTSC Residential SL |
| Bromoform | ug/kg | 19,000 | DTSC Residential SL |
| Bromomethane | ug/kg | 2,400 | Topock-Specific Soil Ecological RBC |
| Carbon disulfide | ug/kg | 770,000 | EPA Residential RSL |
| Carbon tetrachloride | ug/kg | 650 | EPA Residential RSL |
| Chlorobenzene | ug/kg | 280,000 | EPA Residential RSL |
| Chloroethane | ug/kg | 5,400,000 | EPA Residential RSL |
| Chloroform | ug/kg | 7,262,000 | Topock-Specific Soil Ecological RBC |
| Chloromethane | ug/kg | SC (2,700,000) | Topock-Specific Soil Human Health RBC |
| cis-1,2-Dichloroethene | ug/kg | 63,000 | EPA Residential SL |
| cis-1,3-Dichloropropene | ug/kg | 1,800 | EPA Residential RSL |
| Cyclohexane | ug/kg | 6,500,000 | EPA Residential RSL |
| Dibromochloromethane | ug/kg | 940 | DTSC Residential SL |
| Dibromomethane | ug/kg | 24,000 | EPA Residential RSL |
| Dichlorodifluoromethane | ug/kg | 87,000 | EPA Residential RSL |
| Ethylbenzene | ug/kg | 51,543,000 | Topock-Specific Soil Ecological RBC |
| Hexachlorobutadiene | ug/kg | 1,200 | DTSC Residential SL |
| Hexachlorocyclopentadiene | ug/kg | 1,800 | EPA Residential RSL |
| Isophorone | ug/kg | 5,500,000 | Topock-Specific Soil Human Health RBC |
| Isopropylbenzene | ug/kg | 397,000 | Topock-Specific Soil Ecological RBC |
| m,p-Xylenes | ug/kg | 100 | Topock-Specific Soil Ecological RBC |
| Methyl acetate | ug/kg | 5,500,000 | Topock-Specific Soil Human Health RBC |
| Methyl ethyl ketone | ug/kg | 809,625,000 | Topock-Specific Soil Ecological RBC |
| Methyl isobutyl ketone | ug/kg | 33,000,000 | EPA Residential RSL |

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|-----------------------------------|-------|--|-------------------------------------|
| Methyl tert-butyl ether (MTBE) | ug/kg | 47,000 | EPA Residential RSL |
| Methylcyclohexane | ug/kg | 98,000 | EPA Residential SL |
| Methylene chloride | ug/kg | 8,856,000 | Topock-Specific Soil Ecological RBC |
| N-Butylbenzene | ug/kg | 1,200,000 | DTSC Residential SL |
| Nitrobenzene | ug/kg | 5,100 | EPA Residential RSL |
| N-Propylbenzene | ug/kg | 3,800,000 | EPA Residential RSL |
| o-Xylene | ug/kg | 100 | Topock-Specific Soil Ecological RBC |
| p-Chlorotoluene | ug/kg | 440,000 | DTSC Residential SL |
| sec-Butylbenzene | ug/kg | 2,200,000 | DTSC Residential SL |
| Styrene | ug/kg | 5,600,000 | DTSC Residential SL |
| tert-Butylbenzene | ug/kg | 2,200,000 | DTSC Residential SL |
| Tetrachloroethene | ug/kg | 590 | DTSC Residential SL |
| Toluene | ug/kg | 39,740,000 | Topock-Specific Soil Ecological RBC |
| trans-1,2-Dichloroethene | ug/kg | 70,000 | EPA Residential SL |
| trans-1,3-Dichloropropene | ug/kg | 1,800 | EPA Residential RSL |
| Trichloroethene | ug/kg | 940 | EPA Residential RSL |
| Trichlorofluoromethane (Freon 11) | ug/kg | 1,200,000 | DTSC Residential SL |
| Vinyl chloride | ug/kg | 8.2 | DTSC Residential SL |
| Xylenes, total | ug/kg | 397,000 | Topock-Specific Soil Ecological RBC |

Notes:

This table presents a reference list of analytes and associated soil management screening levels that are applicable for making decisions related to disposition of displaced site materials at the Topock site. The specific analytes and soil management levels applicable for characterization of displaced material will be determined based on the origin of the material and potential disposition locations.

^a Soil Management Screening Levels – The screening levels are the higher of the lowest Topock-specific ecological risk-based concentration (as presented in the Soil HHERA Errata Table RBC-3.1 or as recommended in Table 3 of the technical memorandum titled “*Risk-Based Concentrations for VOCs and SVOCs in Soil, Topock Compressor Station, Needles, California*”) or the Topock-specific soil background level, when available. However, if a Topock-specific background level and/or ecological risk-based concentration is not available, then the lowest Topock-specific human health risk-based concentration (excluding residential scenarios) as presented in the Soil HHERA Table RBC-2.1 is used. If a Topock-specific soil background level, human health risk-based concentration, and ecological risk-based concentration are not available, then the lesser of the US EPA residential regional screening level (RSL) or the DTSC HHRA Note 3 Screening Level for residential soil is used. DTSC HHRA Note 3 Screening Levels include toxicity factors from California Toxicity Criteria Rule, provided in DTSC HHRA Note 10.

Background = Final Soil Background Investigation at Pacific Gas and Electric Company Topock Compressor Station, Needles, California (CH2M HILL 2009c) and Determination of Thallium Ambient/Background Concentration at the Pacific Gas and Electric Company Topock Compressor Station, Needles, California (Jacobs August 13, 2019).

ECV = Ecological Comparison Values; ECV were calculated as needed for constituents detected during the Part A Phase I sampling (Arcadis 2008)

NE = not established

SC () = The risk-based concentrations presented in the parentheses represent an RBC that is greater than the theoretical soil saturation limit for that compound or the theoretical ceiling limit of 100,000 mg/kg (US EPA 2018). The theoretical soil saturation limit is the contaminant concentration in soil at which the absorptive limits of the soil particles, the solubility limits of the soil pore water, and saturation of soil pore air have been reached. Calculated soil saturation limits are shown in Table 5-4 of the Soil Human Health and Ecological Risk Assessment report (Arcadis 2020). The theoretical ceiling limit of 100,000 mg/kg is equivalent to a chemical representing 10% by weight of the soil sample. At this contaminant concentration (or higher), the assumptions for soil contact may be violated (e.g., soil adherence and wind-borne dispersion assumptions) due to the presence of the foreign substance itself.

mg/kg = milligrams per kilogram ng/kg = nanograms per kilogram

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µg/kg = micrograms per kilogram

References:

Arcadis. 2022. Risk-Based Concentrations for VOCs and SVOCs in Soil, Topock Compressor Station, Needles, California. March 10.

DTSC 2017. Human Health Risk Assessment Note 2: Soil Remedial Goals for Dioxins and Dioxin-like Compounds for Consideration at California Hazardous Waste Sites. April.

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DTSC. 2025. Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels April 2025 Revised Update. <https://dtsc.ca.gov/human-health-risk-hero/> April.

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