

**Table 3E.** Wastewater-indicator compounds, primary uses or sources, comparative thresholds, and reporting information for the USGS National Water Quality Laboratory schedule 1433.

[The five-digit USGS parameter code is used to uniquely identify a specific constituent or property. CAS, Chemical Abstract Service; LRL, laboratory reporting level; HAL-US, U.S. Environmental Protection Agency Lifetime Health Advisory; MCL-CA, California Department of Public Health maximum contaminant level; MCL-US, U.S. Environmental Protection Agency maximum contaminant level; NL-CA, California Department of Public Health notification level; RSD5-US, U.S. Environmental Protection Agency risk-specific dose at a risk factor of  $10^{-5}$ ; D, detected; na, not available;  $\mu\text{g/L}$ , micrograms per liter; —, not detected]

Constituent	Primary use or source	USGS parameter code	CAS number	LRL ( $\mu\text{g/L}$ )	Threshold type <sup>1</sup>	Threshold value ( $\mu\text{g/L}$ )	Detection
Acetophenone	Fragrance, flavor additive	62064	98-86-2	0.5	na	na	—
Acetyl hexamethyl tetrahydro-naphthalene (AHTN)	Musk fragrance	62065	21145-77-7	0.5	na	na	—
Anthracene	Wood preservative, combustion product	34221	120-12-7	0.5	na	na	—
Anthraquinone	Dye/textiles, seed treatment	62066	84-65-1	0.5	na	na	—
Benzo[a]pyrene	Combustion product	34248	50-32-8	0.5	MCL-US	0.2	— <sup>(3)</sup>
Benzophenone	Fixative for perfumes and soaps	62067	119-61-9	0.5	na	na	—
Bisphenol A	Polycarbonate resins, flame retardant	62069	80-05-7	1	na	na	— <sup>(3)</sup>
Bromacil	Herbicide	04029	314-40-9	0.5	HAL-US	70	—
Bromoform (tribromomethane)	Disinfection by-product	34288	75-25-2	0.5	MCL-US	80	—
3- <i>tert</i> -Butyl-4-hydroxy anisole (BHA)	Antioxidant, general preservative	62059	25013-16-5	5	na	na	— <sup>(3)</sup>
Caffeine	Beverages	50305	58-08-2	0.5	na	na	— <sup>(4)</sup>
Camphor	Flavor, odorant, ointments	62070	76-22-2	0.5	na	na	—
Carbaryl	Insecticide	82680	63-25-2	1	RSD5-US	400	—
Carbazole	Insecticide	62071	86-74-8	0.5	na	na	—
Chlorpyrifos	Insecticide	38933	2921-88-2	0.5	HAL-US	2	—
Cholesterol	Fecal indicator, plant sterol	62072	57-88-5	2	na	na	—
3-beta-Coprostanol	Carnivore fecal indicator	62057	360-68-9	2	na	na	— <sup>(3)</sup>
Cotinine	Primary nicotine metabolite	62005	486-56-6	1	na	na	—
<i>para</i> -Cresol	Wood preservative	62084	106-44-5	1	na	na	—
4-Cumylphenol	Nonionic detergent metabolite	62060	599-64-4	1	na	na	—
<i>N,N</i> -diethyl- <i>meta</i> -toluamide (DEET)	Insecticide	62082	134-62-3	0.5	na	na	—
1,4-Dichlorobenzene	Moth repellent, fumigant, deodorant	34572	106-46-7	0.5	MCL-CA	5	— <sup>(3)</sup>
2,6-Dimethylnaphthalene	Diesel/kerosene	62055	581-42-0	0.5	na	na	— <sup>(3)</sup>
Diazinon	Insecticide	39572	333-41-5	0.5	HAL-US	1	—
4-Nonylphenol diethoxylates	Nonionic detergent metabolite	62083	na	5	na	na	— <sup>(2)</sup>
4-Octylphenol diethoxylates	Nonionic detergent metabolite	61705	na	1	na	na	—
4-Octylphenol monoethoxylates	Nonionic detergent metabolite	61706	na	1	na	na	—
Fluoranthene	Component of coal tar and asphalt	34377	206-44-0	0.5	na	na	—
Hexahydrohexamethylcyclopentabenzopyran (HHCb)	Musk fragrance	62075	1222-05-5	0.5	na	na	—
Indole	Pesticide ingredient	62076	120-72-9	0.5	na	na	—
Isoborneol	Fragrance in perfumery	62077	124-76-5	0.5	na	na	—
Isophorone	Solvent	34409	78-59-1	0.5	HAL-US	100	—
Isopropylbenzene	Fuels, paint thinner	62078	98-82-8	0.5	NL-CA	770	— <sup>(3)</sup>
Isoquinoline	Flavors and fragrances	62079	119-65-3	0.5	na	na	—
<i>d</i> -Limonene	Fungicide	62073	5989-27-5	0.5	na	na	— <sup>(3)</sup>

**Table 3E.** Wastewater-indicator compounds, primary uses or sources, comparative thresholds, and reporting information for the USGS National Water Quality Laboratory schedule 1433—Continued.

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Constituent	Primary use or source	USGS parameter code	CAS number	LRL ( $\mu\text{g/L}$ )	Threshold type <sup>1</sup>	Threshold value ( $\mu\text{g/L}$ )	Detection
Menthol	Cigarettes, cough drops, liniment	62080	89-78-1	0.5	na	na	—
Metalaxyl	Herbicide, fungicide	50359	57837-19-1	0.5	na	na	—
3-Methyl-1(H)-indole (Skatole)	Fragrance, stench in feces	62058	83-34-1	1	na	na	—
5-Methyl-1H-benzotriazole	Antioxidant in antifreeze and deicers	62063	136-85-6	2	na	na	— <sup>(3)</sup>
1-Methylnaphthalene	Gasoline, diesel fuel, or crude oil	62054	90-12-0	0.5	na	na	— <sup>(3)</sup>
2-Methylnaphthalene	Gasoline, diesel fuel, or crude oil	62056	91-57-6	0.5	na	na	— <sup>(3)</sup>
Methyl salicylate	Liniment, UV-absorbing lotion	62081	119-36-8	0.5	na	na	—
Metolachlor	Herbicide	39415	51218-45-2	0.5	HAL-US	700	—
Naphthalene	Fumigant, moth repellent, gasoline	34443	91-20-3	0.5	NL-CA	17	—
<i>para</i> -Nonylphenol (total)	Nonionic detergent metabolite	62085	84852-15-3	5	na	na	—
4- <i>n</i> -Octylphenol	Nonionic detergent metabolite	62061	1806-26-4	1	na	na	— <sup>(3)</sup>
4- <i>tert</i> -Octylphenol	Nonionic detergent metabolite	62062	140-66-9	1	na	na	—
Pentachlorophenol	Herbicide, wood preservative	34459	87-86-5	2	MCL-US	1	— <sup>(3)</sup>
Phenanthrene	Explosives, oil, combustion product	34462	85-01-8	0.5	na	na	—
Phenol	Disinfectant, organic synthesis	34466	108-95-2	0.5	HAL-US	2000	—
Prometon	Herbicide	04037	1610-18-0	0.5	HAL-US	100	—
Pyrene	Component of coal tar and asphalt	34470	129-00-0	0.5	na	na	—
<i>beta</i> -Sitosterol	Plant sterol	62068	83-46-5	2	na	na	— <sup>(3)</sup>
<i>beta</i> -Stigmastanol	Plant sterol	62086	19466-47-8	2	na	na	— <sup>(3)</sup>
Tetrachloroethene (PCE)	Solvent, degreaser	34476	127-18-4	0.5	MCL-US	5	D <sup>5</sup>
Tributyl phosphate	Antifoaming agent, flame retardant	62089	126-73-8	0.5	na	na	—
Triclosan	Disinfectant, antimicrobial	62090	3380-34-5	1	na	na	—
Triethyl citrate (ethyl citrate)	Cosmetics, pharmaceuticals	62091	77-93-0	0.5	na	na	—
Triphenyl phosphate	Plasticizer, resin, flame retardant	62092	115-86-6	0.5	na	na	—
Tri(2-butoxyethyl)phosphate	Flame retardant	62093	78-51-3	0.5	na	na	—
Tri(2-chloroethyl)phosphate	Plasticizer, flame retardant	62087	115-96-8	0.5	na	na	—
Tri(dichlorisopropyl)phosphate	Flame retardant	62088	13674-87-8	0.5	na	na	—

<sup>1</sup>Maximum contaminant level thresholds are listed as MCL-US when the MCL-US and MCL-CA are identical, and as MCL-CA when the MCL-CA is lower than the MCL-US or no MCL-US exists.

<sup>2</sup>The median matrix-spike recovery was greater than 130 percent.

<sup>3</sup>The median matrix-spike recovery was less than 70 percent. Low recoveries may indicate that the compound might not have been detected in some samples if it was present at very low concentrations.

<sup>4</sup>The preferred analytical schedule for caffeine is schedule 2080 (table 3D).

<sup>5</sup>The preferred analytical schedule for tetrachloroethene (PCE) is schedule 2020 (table 3A).