# DRAFT ATTACHMENT H

# TOTAL MAXIMUM DAILY LOAD IMPLEMENTATION REQUIREMENTS APPLICABLE TO CONSTRUCTION STORMWATER DISCHARGES

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED
 WITH CONSTRUCTION ACTIVITIES
 (GENERAL PERMIT)

The following table contains a list of existing Total Maximum Daily Loads (TMDLs) that are identified as applicable to construction stormwater dischargers covered under this General Permit. The listed TMDLs were adopted by a Regional Water Quality Control Board or established by the U.S. EPA prior to the adoption date of this General Permit. This General Permit may be reopened to amend update TMDL-specific permit requirements in this Attachment H, or to incorporate new TMDLs adopted during the term of this General Permit that include requirements applicable to dischargers regulated by this General Permit.

Table H-1: List of Applicable TMDLs

North Coast Regional Water Quality Control Board (Region 1)

| **TMDL** | **Pollutant** |
| --- | --- |
| Albion River Sediment TMDL | Sediment |
| Big River Sediment TMDL | Sediment |
| Eel River – Lower Main Sediment TMDL | Sediment |
| Eel River – Lower Main Temperature TMDL | Temperature |
| Eel River – Middle Fork Sediment TMDL | Sediment |
| Eel River – Middle Main Sediment TMDL | Sediment |
| Eel River – Middle Main Temperature TMDL | Temperature |
| Eel River – North Fork Sediment TMDL | Sediment |
| Eel River – North Fork Temperature TMDL | Temperature |
| Eel River – South Fork Sediment TMDL | Sediment |
| Eel River – Upper Main Sediment TMDL | Sediment |
| Eel River – Upper Main Sediment TMDL | Temperature |
| Gualala River Sediment TMDL | Sediment |
| Mad River Sediment TMDL | Sediment |
| Mattole River Sediment TMDL | Sediment |
| Mattole River Temperature TMDL | Temperature |
| Navarro River Sediment TMDL | Sediment |
| Navarro River Temperature TMDL | Temperature |
| Noyo River Sediment TMDL | Sediment |
| Scott River Sediment TMDL | Sediment |
| Scott River Temperature TMDL | Temperature |
| Ten Mile River Sediment TMDL | Sediment |
| Trinity River Sediment TMDL | Sediment |
| Van Duzen River Sediment TMDL | Sediment |

San Francisco Bay Regional Water Quality Control Board (Region 2)

|  |  |
| --- | --- |
| **TMDL** | **Pollutant** |
| Napa River Sediment TMDL | Sediment |
| Sonoma Creek Sediment TMDL | Sediment |
| Lagunitas Creek Sediment TMDL | Sediment |
| Pescadero and Butano Creek Sediment TMDL | Sediment |

Central Coast Regional Water Quality Control Board (Region 3)

|  |  |
| --- | --- |
| **TMDL** | **Pollutant** |
| Pajaro River Nutrients TMDL | Nitrogen Compounds and Orthophosphate |
| San Lorenzo River Siltation TMDL | Sediment |

Los Angeles Regional Water Quality Control Board (Region 4)

| **TMDL** | **Pollutant** |
| --- | --- |
| Ballona Creek, Ballona Estuary and Sepulveda Channel Bacteria TMDL | Bacteria |
| Ballona Creek Metals TMDL | Metals |
| Ballona Creek Estuary Toxics TMDL | Toxics |
| Calleguas Creek Watershed Salts TMDL | Salts (Boron, Chloride, Sulfate, TDS) |
| Calleguas Creek Watershed Metals and Selenium TMDL | Metals and Selenium |
| Calleguas Creek Watershed OC Pesticides and PCBs TMDL | Organochlorine Pesticides and PCBs |
| Colorado Lagoon Toxics TMDL | Metals, Organochlorine Pesticides, PAHs, PCBs, and Sediment Toxicity |
| Harbor Beaches of Ventura County Bacteria TMDL | Bacteria |
| Los Angeles Area Lakes TMDLs | Mercury, Nitrogen, Organochlorine Pesticides, PCBs, and Phosphorus |
| Long Beach City Beaches and Los Angeles River Estuary Bacteria TMDL | Bacteria |
| Los Angeles and Long Beach Harbor Waters TMDL | Metals and Toxics |
| Los Angeles Harbor Bacteria TMDL | Bacteria |
| Los Angeles River Bacteria TMDL | Bacteria |
| Los Angeles River Metals TMDL | Metals |
| Los Angeles River Nutrients TMDL | Nutrients |
| Los Cerritos Channel Metals TMDL | Metals |
| Machado Lake Nutrients TMDL | Nutrients |
| Machado Lake Toxics TMDL | PCBs and Pesticides |
| Malibu Creek Bacteria TMDL | Bacteria |
| Marina del Rey Harbor Bacteria TMDL | Bacteria |
| Marina Del Rey Harbor Toxics TMDL | Toxics |
| Oxnard Drain No. 3 TMDL | PCBs, Pesticides, and Sediment Toxicity |
| San Gabriel River Metals and Selenium TMDL | Metals and Selenium |
| Santa Clara River Bacteria TMDL | Bacteria |
| Santa Clara River Nutrients Nitrogen Compounds TMDL | Nutrients |
| Santa Clara River Reach 3 Chloride TMDL | Chloride |
| Santa Monica Bay Beaches Bacteria TMDL | Bacteria |
| Santa Monica Bay DDTs and PCBs TMDL | DDTs and PCBs |
| Upper Santa Clara River Chloride TMDL | Chloride |
| Ventura River Nutrients Algae TMDL | Nutrients |

Lahontan Regional Water Quality Control Board (Region 6)

| **TMDL** | **Pollutant** |
| --- | --- |
| Squaw Creek Sediment TMDL | Sediment |
| Truckee River Sediment TMDL | Sediment |

Santa Ana Regional Water Quality Control Board (Region 8)

| **TMDL** | **Pollutant** |
| --- | --- |
| San Diego Creek and Newport Bay Organochlorine Compounds TMDL | Organochlorine Compounds |
| San Diego Creek and Newport Bay Nutrients TMDL | Nutrients |
| San Diego Creek and Newport Bay Sediment TMDL | Sediment |
| San Diego Creek and Newport Bay Toxics TMDL | Toxics |

San Diego Regional Water Quality Control Board (Region 9)

| **TMDL** | **Pollutant** |
| --- | --- |
| Chollas Creek Diazinon TMDL | Diazinon |
| Chollas Creek Metals TMDL | Metals |
| Los Peñasquitos Lagoon Sediment TMDL | Sediment |

Table H-2: Compliance Table for TMDL Implementation Requirements

North Coast Regional Water Quality Control Board (Region 1) [[1]](#footnote-2)1, [[2]](#footnote-3)2

| **TMDL** | **Applicable Water Body/Watershed** | **Pollutants** | **Additional TMDL-Related Numeric Action Level(s) or Numeric Effluent Limitation(s) (NAL/NEL)** | **Compliance Actions** | **Compliance Deadline** |
| --- | --- | --- | --- | --- | --- |
| Albion River Sediment TMDL | Albion River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Big River Sediment TMDL | Big River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Eel River – Lower Main Sediment TMDL | Lower Eel River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Eel River – Lower Main Temperature TMDL | Lower Eel River Watershed | Temperature | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Eel River – Middle Fork Sediment TMDL | Middle Fork Eel River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Eel River – Middle Main Sediment TMDL | Middle Main Eel River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Eel River – Middle Main Temperature TMDL | Middle Main Eel River Watershed | Temperature | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Eel River – North Fork Sediment TMDL | North Fork Eel River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Eel River – North Fork Temperature TMDL | North Fork Eel River Watershed | Temperature | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |
| Eel River – Upper Main Sediment TMDL | Upper Eel River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Eel River – Upper Main Temperature TMDL | Upper Eel River Watershed | Temperature | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Eel River – South Fork Sediment TMDL | South Fork Eel River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Gualala River Sediment TMDL | Gualala River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Mad River Sediment TMDL | Mad River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Mattole River Sediment TMDL | Mattole River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Mattole River Temperature TMDL | Mattole River Watershed | Temperature | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Navarro River Sediment TMDL | Navarra River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Navarro River Temperature TMDL | Navarro River Watershed | Temperature | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Noyo River Sediment TMDL | Noyo River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Scott River Sediment TMDL | Scott River Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Scott River Temperature TMDL | Scott River Watershed | Temperature | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Ten Mile River Sediment TMDL | Ten Mile River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Trinity River Sediment TMDL | Trinity River Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Van Duzen River Sediment TMDL | Van Duzen River Watershed | Sediment  | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |

San Francisco Bay Regional Water Quality Control Board (Region 2) [[3]](#footnote-4)3, [[4]](#footnote-5)4

| **TMDL** | **Applicable Water Body/Watershed** | **Pollutants** | **Additional TMDL-Related Numeric Action Level(s) or Numeric Effluent Limitation(s) (NAL/NEL)** | **Compliance Actions** | **Compliance Deadline** |
| --- | --- | --- | --- | --- | --- |
| Lagunitas Creek Sediment TMDL | Lagunitas Creek Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Napa River Sediment TMDL | Napa River Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Pescadero and Butano Creek Sediment TMDL | Pescadero-Butano Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Sonoma Creek Sediment TMDL | Sonoma Creek Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |

Central Coast Regional Water Quality Control Board (Region 3) [[5]](#footnote-6)5, [[6]](#footnote-7)6

| **TMDL** | **Applicable Water Body/Watershed** | **Pollutants** | **Additional TMDL-Related Numeric Action Level(s) or Numeric Effluent Limitation(s) (NAL/NEL)** | **Compliance Actions** | **Compliance Deadline** |
| --- | --- | --- | --- | --- | --- |
| Pajaro River Nutrients TMDL | Pajaro River Watershed | Un-ionized Ammonia | NAL of 0.025 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.3 below. | July 12, 2041 |
| Pajaro River Nutrients TMDL | Pajaro River Watershed Streams with MUN Beneficial Use | Nitrate-Nitrogen | NAL of 10.0 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.3 below. | July 12, 2041 |
| Pajaro River Nutrients TMDL | Pajaro River and Pajaro River EstuaryCorralitos Creek and Salsipuedes CreekBeach Road Ditch and McGowan Ditch | Nitrate-Nitrogen | NAL of 8.0 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.3 below. | July 12, 2041 |
| Pajaro River Nutrients TMDL | Pajaro River and Pajaro River EstuaryCorralitos Creek and Salsipuedes CreekBeach Road Ditch and McGowan Ditch | Orthophosphate-Phosphorus | NAL of 0.3 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.3 below. | July 12, 2041 |
| Pajaro River Nutrients TMDL | Llagas Creek (Downstream of Cheseboro Reservoir), Carnadero Creek, Uvas Creek, and Furlong CreekSan Juan Creek and West Branch of San Juan CreekTequisquita SloughWatsonville Slough, Harkins Slough, Gallighan Slough, and Struve SloughMillers Canal | Nitrate-Nitrogen | NAL of 8.0 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.3 below. | July 12, 2041 |
| Pajaro River Nutrients TMDL | Llagas Creek (Downstream of Cheseboro Reservoir), Carnadero Creek, Uvas Creek, and Furlong CreekSan Juan Creek and West Branch of San Juan CreekTequisquita SloughWatsonville Slough, Harkins Slough, Gallighan Slough, and Struve SloughMillers Canal | Orthophosphate-Phosphorus | NAL of 0.3 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.3 below. | July 12, 2041 |
| San Lorenzo River Siltation TMDL | San Lorenzo River Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[Effective Date of this General Permit] |

Los Angeles Regional Water Quality Control Board (Region 4) [[7]](#footnote-8)7, [[8]](#footnote-9)8

| **TMDL** | **Applicable Water Body/Watershed** | **Pollutants** | **Additional TMDL-Related Numeric Action Level(s) or Numeric Effluent Limitation(s) (NAL/NEL)** | **Compliance Actions** | **Compliance Deadline** |
| --- | --- | --- | --- | --- | --- |
| Ballona Creek, Ballona Estuary, and Sepulveda Channel Bacteria TMDL | Ballona Creek | E. coli, Fecal Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Ballona Creek, Ballona Estuary, and Sepulveda Channel Bacteria TMDL | Ballona Estuary | Enterococcus, Fecal Coliform, Total Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Ballona Creek, Ballona Estuary, and Sepulveda Channel Bacteria TMDL | Sepulveda Channel | E. coli | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Ballona Creek Metals TMDL | Ballona Creek or Sepulveda Canyon Channel | Copper, Lead, and Zinc | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Ballona Creek Estuary Toxics TMDL | Ballona Creek or Ballona Creek Estuary | Cadmium, Chlordane, Copper, DDT, Lead, PCBs, Silver, and Zinc | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Calleguas Creek Salts TMDL | Calleguas Creek Watershed | Boron, Chloride, Sulfate, and Total Dissolved Solids (TDS) | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Calleguas Creek Watershed Metals and Selenium TMDL | Calleguas Creek or Conejo Creek | Total Copper | Interim NAL of 0.204 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Calleguas Creek Watershed Metals and Selenium TMDL | Calleguas Creek or Conejo Creek | Copper, Nickel, and Selenium | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | March 27, 2022 July 1, 2023[*Effective Date of this General Permit*] |
| Calleguas Creek Watershed Metals and Selenium TMDL | Calleguas Creek or Conejo Creek | Mercury | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Calleguas Creek Watershed Metals and Selenium TMDL | Revolon Slough | Total Copper | Interim NAL of 0.204 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Calleguas Creek Watershed Metals and Selenium TMDL | Revolon Slough | Copper, Nickel, and Selenium | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | March 27, 2022 July 1, 2023[*Effective Date of this General Permit*] |
| Calleguas Creek Watershed Metals and Selenium TMDL | Revolon Slough | Mercury | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Calleguas Creek Watershed Organo-chlorine Pesticides and PCBs TMDL | Calleguas Creek Watershed | Chlordane, 4,4-DDD, 4,4-DDE, 4,4-DDT, Dieldrin, PCBs, and Toxaphene | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Colorado Lagoon Toxics TMDL | Colorado Lagoon Watershed | Chlordane, Dieldrin, DDT, Lead, PAHs, PCBs, and Zinc | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Harbor Beaches of Ventura County Bacteria TMDL | Kiddie and Hobie Beaches in the Channel Islands Harbor | Enterococcus, Fecal Coliform, Total Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Long Beach City Beaches and Los Angeles River Estuary Bacteria TMDL | Long Beach City Beaches or Los Angeles River Estuary | Enterococcus, Fecal Coliform, Total Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles Area Lakes TMDL | Echo Park Lake | Total Nitrogen | NEL NAL of 1.33 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles Area Lakes TMDL | Echo Park Lake | Total Phosphorous | NEL of 0.16 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles Area Lakes TMDL | Echo Park Lake | Chlordane | NEL of 5.9 X 10-7100 mg/L TSS (if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles Area Lakes TMDL | Echo Park Lake | Dieldrin | NEL of 1.4 X 10-7 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles Area Lakes TMDL | Echo Park Lake | Total PCBs | NEL of 1.7 X 10-7 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles Area Lakes TMDL | Legg Lakes | Total Nitrogen | NEL NAL of 1.8 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles Area Lakes TMDL | Legg Lakes | Total Phosphorous | NEL of 0.64 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles Area Lakes TMDL | Peck Road Park Lake | Total Nitrogen | NEL NAL of 3.61 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Peck Road Park Lake | Total Phosphorous | NEL of 0.37 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Peck Road Park Lake | Chlordane | NEL of 5.9 X 10-7 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Peck Road Park Lake | Dieldrin | NEL of 1.4 X 10-7 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Peck Road Park Lake | Total DDTs | NEL of 5.9 X 10-7100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Peck Road Park Lake | Total PCBs | NEL of 1.7 X 10-7 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Pudding-stone Reservoir | Total Nitrogen | NEL NAL of 2.0 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Pudding-stone Reservoir | Total Phosphorous | NEL of 0.4 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Pudding-stone Reservoir | Chlordane | NEL of 5.7 X 10-7 100mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Pudding-stone Reservoir | Dieldrin | NEL of 1.4 X 10-7100mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Pudding-stone Reservoir | Total DDTs | NEL of 5.9 X 10-7 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles Area Lakes TMDL | Pudding-stone Reservoir | Total PCBs | NEL of 1.7 X 10-7 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 5 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit* |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel or Torrance Lateral | Total Copper | Interim NAL of 0.20751 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel or Torrance Lateral | Total Lead | Interim NAL of 0.12288 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel or Torrance Lateral | Total Zinc | Interim NAL of 0.89887 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel or Torrance Lateral | Total Copper | Final NEL of 0.0097 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.4 5 and I.G.6 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel or Torrance Lateral | Total Lead | Final NEL of 0.0427 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.4 5 and I.G.6 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel or Torrance Lateral | Total Zinc | Final NEL of 0.0697 100 mg/L TSS(if applicable per Section I.G.5 below) | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.4 5 and I.G.6 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary and Greater Los Angeles/ Long Beach Harbor Waters including:Inner and Outer HarborMain ChannelSouthwest SlipCabrillo MarinaInner Cabrillo BeachLos Angeles River Estuary,San Pedro Bay | Copper, DDT, Lead, PAHs, PCBs, and Zinc  | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary  | 4,4-DDT | Final NAL of 5.9 X10-7 mg/L  | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.3 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary  | Chlordane | Final NAL of 5.9 X10-7 mg/L | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.3 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary  | Dieldrin | Final NAL of 1.4 X10-7 mg/L | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.3 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary  | Total Copper | Final NAL of 0.0058 mg/L | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.3 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary  | Total Lead | Final NAL of 0.221 mg/L | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.3 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary  | PAHs | Final NAL of 4.9 X10-5 mg/L | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.3 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary  | Total PCBs | Final NAL of 1.7 X10-7 mg/L | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.3 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary  | Total Zinc | Final NAL if 0.095 mg/L | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.3 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Dominguez Channel Estuary | Cadmium | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Consolidated Slip | Cadmium, Chromium, and Mercury | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | March 23, 2032 |
| Los Angeles and Long Beach Harbor Waters TMDL | Fish Harbor | Mercury | None | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.2 below. | March 23, 2032 |
| Los Angeles Harbor Bacteria TMDL | Los Angeles Harbor (Inner Cabrillo Beach and Main Ship Channel) | Enterococcus, Fecal Coliform, Total Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Bacteria TMDL | Los Angeles River Watershed | E. Coli | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Metals TMDL | Los Angeles River Watershed | Total Cadmium | NAL of 0.0031 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Metals TMDL | Los Angeles River Watershed | Total Copper | NAL of 0.06749 mg/L  | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Metals TMDL | Los Angeles River Watershed | Total Lead | NAL of 0.094 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Metals TMDL | Los Angeles River Watershed | Total Zinc | NAL of 0.159mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Nutrients TMDL | Los Angeles River above the LA-Glendale WRP | Ammonia | NEL NAL of 4.7 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Nutrients TMDL | Los Angeles River below the LA-Glendale WRP | Ammonia | NEL NAL of 8.7 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Nutrients TMDL | Los Angeles River Watershed | Ammonia | NEL NAL of 10.1 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Nutrients TMDL | Los Angeles River Watershed | Nitrate-Nitrogen | NEL NAL of 8.0 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Nutrients TMDL | Los Angeles River Watershed | Nitrite-Nitrogen | NEL NAL of 1.0 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Angeles River Nutrients TMDL | Los Angeles River Watershed | Nitrate-Nitrogen + Nitrite-Nitrogen | NEL NAL of 8.0 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Cerritos Channel Metals TMDL | Los Cerritos Channel | Total Copper  | NAL of 0.0098 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Cerritos Channel Metals TMDL | Los Cerritos Channel | Total Lead | NAL of 0.0558 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Los Cerritos Channel Metals TMDL | Los Cerritos Channel | Total Zinc | NAL of 0.0956 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Machado Lake Nutrients TMDL | Machado Lake, Drain 553, Wilmington Drain, Project 77/510, and Walteria Lake | Total Nitrogen | NAL of 1.0 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Machado Lake Nutrients TMDL | Machado Lake, Drain 553, Wilmington Drain, Project 77/510, and Walteria Lake | Total Phosphorus | NAL of 0.1 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Machado Lake Toxics TMDL | Machado Lake, Drain 553, Wilmington Drain, Project 77/510, and Walteria Lake | Chlordane, DDD (all cogeners), DDE (all cogeners), DDT (all cogeners), Dieldrin, Total DDTs, and Total PCBs | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Malibu Creek Watershed Bacteria TMDL | Malibu Creek Watershed | E. coli | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Malibu Creek Watershed Bacteria TMDL | Malibu Lagoon and Adjacent Beach | Enterococcus, Fecal Coliform, Total Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Marina del Rey Harbor Bacteria TMDL | Marina del Rey Harbor Mother’s Beach and Back Basins D, E, and F | Enterococcus, Fecal Coliform, Total Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Marina del Rey Harbor Toxics TMDL | Marina del Rey Harbor | Chlordane, Copper, Lead, p,p’-DDE, Total DDTs, Total PCBs, and Zinc | None | Comply with General Permit and the additional Metals and Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Oxnard Drain No. 3 TMDL | Oxnard Drain No. 3 | 4,4’-DDD, 4,4’-DDE, 4,4’-DDT, Bifenthrin, Chlordane, Chlorpyrifos, Dieldrin, PCBs, Sediment Toxicity, and Toxaphene | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Gabriel River Metals and Selenium | San Gabriel River Reach 2 and Upper Reaches Watersheds  | Total Lead | NAL 0.166 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Gabriel River Metals and Selenium | Coyote Creek Watershed  | Total Copper | NAL 0.027 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Gabriel River Metals and Selenium | Coyote Creek Watershed | Total Lead | NAL 0.106 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Gabriel River Metals and Selenium | Coyote Creek Watershed | Total Zinc | NAL 0.158 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Santa Clara River Bacteria  | Santa Clara River Estuary | Enterococcus, Fecal Coliform, Total Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Santa Clara River Bacteria  | Santa Clara River Reaches 3, 4, 5, 6, 7 | E. coli | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Santa Clara River Chloride TMDL | Santa Clara River Reach 3 | Chloride | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Santa Clara River Nutrients Nitrogen Compounds TMDL | Santa Clara River Reach 3 | Ammonia | NEL NAL of 4.2 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Santa Clara River Nutrients Nitrogen Compounds TMDL | Santa Clara River Reach 7 | Ammonia | NEL NAL of 5.2 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Santa Monica Bay Beaches Bacterial TMDL | Santa Monica Bay Watershed Management Area | Enterococcus, Fecal Coliform, Total Coliform | None | Comply with General Permit and the additional Bacteria TMDL Requirements in Section I.A below. | July 1, 2023[*Effective Date of this General Permit*] |
| Santa Monica Bay DDTs and PCBs TMDL | Santa Monica Bay | DDT and PCBs | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Upper Santa Clara River Chloride TMDL | Santa Clara River Reach 5 and 6 | Chloride  | Chloride NAL of 100 mg/L | Comply with General Permit and the additional TMDL Requirements in Section I.B below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Ventura River Nutrients Algae TMDL | Ventura River Estuary and Ventura River Reach 1 | Total Nitrogen | NEL NAL of 7.4 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Ventura River Nutrients Algae TMDL | Ventura River Reach 2 and Cañada Larga | Nitrate-Nitrogen + Nitrite-Nitrogen | NEL NAL of 10 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit]* |
| Ventura River Nutrients Algae TMDL | Ventura River Reaches 3, 4, 5, and San Antonio Creek | Nitrate-Nitrogen + Nitrite-Nitrogen | NEL NAL of 5 mg/L | Comply with General Permit and the additional Nutrients TMDL Requirements in Section I.D.4 3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |

Lahontan Regional Water Quality Control Board (Region 6) [[9]](#footnote-10)9, 1[[10]](#footnote-11)0

| **TMDL** | **Applicable Water Body/Watershed** | **Pollutants** | **Additional TMDL-Related Numeric Action Level(s) or Numeric Effluent Limitation(s) (NAL/NEL)** | **Compliance Actions** | **Compliance Deadline** |
| --- | --- | --- | --- | --- | --- |
| Squaw Creek Sediment TMDL | Squaw Creek Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Truckee River Sediment TMDL | Middle Truckee River Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |

Santa Ana Regional Water Quality Control Board (Region 8) 1[[11]](#footnote-12)1, 1[[12]](#footnote-13)2

| **TMDL** | **Applicable Water Body/Watershed** | **Pollutants** | **Additional TMDL-Related Numeric Action Level(s) or Numeric Effluent Limitation(s) (NAL/NEL)** | **Compliance Actions** | **Compliance Deadline** |
| --- | --- | --- | --- | --- | --- |
| San Diego Creek and Newport Bay Nutrients TMDL | San Diego Creek, Newport Bay Watershed | Total Phosphorus | None | Comply with General Permit and the additional TMDL Requirements in Section I.D.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Organo-chlorine Compounds TMDL | San Diego Creek Watershed | Total DDT and Toxaphene | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Organo-chlorine Compounds TMDL | Upper Newport Bay | Chlordane, Total DDT, and Total PCBs | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Organo-chlorine Compounds TMDL | Lower Newport Bay | Chlordane, Total DDT, and Total PCBs | None | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.2 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Sediment TMDL | Newport Bay/San Diego Creek Watershed | Sediment | None | Comply with General Permit | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | San Diego Creek Watershed | Total Cadmium | NAL of 0.0097 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | San Diego Creek Watershed | Total Copper | NAL of 0.027 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | San Diego Creek Watershed | Total Lead | NAL of 0.194 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | San Diego Creek Watershed | Total Zinc | NAL of 0.21 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | Upper Newport Bay | Total Cadmium | NAL of 0.042 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | Upper Newport Bay | Total Copper | NAL of 0.00578 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | Upper Newport Bay | Total Lead | NAL of 0.221 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | Upper Newport Bay | Total Zinc | NAL of 0.095 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | Lower Newport Bay, Bay Segments (including Costa Mesa Channel and Santa Ana Delhi Channel), and Rhine Channel Area | Total Copper | NAL of 0.00578 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | Lower Newport Bay, Bay Segments (including Costa Mesa Channel and Santa Ana Delhi Channel), and Rhine Channel Area | Total Lead | NAL of 0.221 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| San Diego Creek and Newport Bay Toxics TMDL  | Lower Newport Bay, Bay Segments (including Costa Mesa Channel and Santa Ana Delhi Channel), and Rhine Channel Area | Total Zinc | NAL of 0.095 mg/L | Comply with General Permit and the additional Metals TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |

San Diego Regional Water Quality Control Board (Region 9) 1[[13]](#footnote-14)3, 1[[14]](#footnote-15)4

| **TMDL** | **Applicable Water Body/Watershed** | **Pollutants** | **Additional TMDL-Related Numeric Action Level(s) or Numeric Effluent Limitation(s) (NAL/NEL)** | **Compliance Actions** | **Compliance Deadline** |
| --- | --- | --- | --- | --- | --- |
| Chollas Creek Diazinon TMDL | Chollas Creek Watershed | Diazinon | None | Comply with General Permit and the use of Diazinon at the site is prohibited. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Chollas Creek Metal TMDL | Chollas Creek | Total Dissolved Copper | Interim NAL of 0.083 mg/L | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Chollas Creek Metal TMDL | Chollas Creek | Total Dissolved Lead | Interim NAL of 0.068 mg/L | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Chollas Creek Metal TMDL | Chollas Creek | Total Dissolved Zinc | Interim NAL of 0.175 mg/L | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.3 below. | XXXX XX, 202X July 1, 2023[*Effective Date of this General Permit*] |
| Chollas Creek Metal TMDL | Chollas Creek | Total Dissolved Copper | Final NEL of 0.083 mg/L | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 below. | October 22, 2028 |
| Chollas Creek Metal TMDL | Chollas Creek | Total Dissolved Lead | Final NEL of 0.068 mg/L | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 below. | October 22, 2028 |
| Chollas Creek Metal TMDL | Chollas Creek | Total Dissolved Zinc | Final NEL of 0.175 mg/L | Comply with General Permit and the additional Toxics TMDL Requirements in Section I.G.4 below. | October 22, 2028 |
| Los Peñasquitos Lagoon Sediment TMDL | Los Peñasquitos Lagoon Watershed | Sediment | None | Comply with General Permit and the additional Sediment TMDL Requirements in Section I.E.3 below. | July 14, 2034 |

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## TMDL Implementation Requirements IMPLEMENTATION REQUIREMENTS

This Section contains the TMDL-specific requirements that Responsible Dischargers shall implement to address applicable TMDLs by the respective TMDL compliance deadlines indicated in Table H-2. These requirements are listed in order of pollutant category, while Table H-2 is organized by Regional Water Board jurisdiction and watershed. The terms including, but not limited to, Responsible Discharger, numeric action levels and exceedances, and numeric effluent limitations and exceedances are defined in Appendix 2 Attachment B of this General Permit.

### Bacteria TMDL Implementation Requirements

1. Compliance with General Permit
	1. All Responsible Dischargers for the Bacteria TMDLs listed in Table H-2 shall comply with the requirements of this General Permit.
2. Bacteria TMDL BMPs
	1. Minimum BMPs
		1. The Responsible Discharger that identifies on-site sources of indicator bacteria in their pollutant source assessment shall implement BMPs specific to preventing or controlling stormwater exposure to indicator bacteria in addition to complying with this General Permit’s requirements. The minimum bacteria source control BMPs include the following:
			1. a) Qualified SWPPP Practitioner-conducted training for construction site staff; and
			2. b) Routine housekeeping and sanitary waste management of identified sources of bacteria (e.g., portable toilets, dumpsters, etc.).
	2. Structural BMPs
		1. The Responsible Discharger shall evaluate and implement any necessary structural BMPs designed for retention, infiltration, or diversion of stormwater when the implemented minimum BMPs are inadequate to reduce bacteria loading to receiving waters.
	3. The Responsible Discharger shall ensure all BMPs are implemented and address Bacteria TMDL requirements. The BMPs shall be visually inspected, maintained, repaired, and kept updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments A, C, D, or E for the site’s Risk or Type.

### Chloride and Salts TMDL Implementation Requirements

1. Compliance with this General Permit
	1. All Responsible Dischargers for the Chloride and Salts TMDLs listed in Table H-2 shall comply with the requirements of this General Permit. Compliance with the requirements of this General Permit is consistent with the requirements and assumptions of the Chloride and Salts TMDL(s), unless specified below.
2. Numeric Action Level (NAL)
	1. The Responsible Discharger shall implement BMPs to address chloride and salts and prevent exceedances of the applicable NALs to the extent possible. The BMPs shall be visually inspected, maintained, repaired, and updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments D or E for the site’s Risk or Type.
	2. The Responsible Discharger shall conduct non-visible pollutant monitoring, as required in Attachment D or E Section III.D.3, when the TMDL-specific pollutant may be discharged due to a failure to implement BMPs, a container spill or leak, or a BMP breach, failure, or malfunction.
	3. a. The Responsible Discharger that identifies on-site sources of chloride or salts in their pollutant source assessment, and is required to comply with a Chloride or Salts TMDL-related NAL, shall compare all single sample the non-visible pollutant monitoring analytical results to the applicable NAL(s) in Table H-2 in addition to complying with this General Permit’s requirements. The compliance location for an NAL is at the construction stormwater discharge location(s).

b. The Responsible Discharger shall ensure that any BMPs necessary to address chloride and salts are implemented, sampling for non-visible pollutants is conducted, and exceedances of the applicable NALs are prevented to the extent possible. The BMPs shall be visually inspected, maintained, repaired, and kept updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments A, C, D, or E for the site’s Risk or Type.

* 1. c. The Responsible Discharger shall certify and submit all analytical results in SMARTS within 30 days of receiving the results, or within 10 days of receiving the analytical laboratory results demonstrating above an applicable NAL exceedance(s).
	2. d. A TMDL-related NAL exceedance occurs when two or more on the second, and each subsequent, analytical results result for samples taken at each from any and all discharge location(s) within the same drainage area, during the same reporting year exceeds and taken in accordance with this attachment, that is above the concentration set forth in the applicable NAL. An NAL exceedance is not a violation of this General Permit, however, it is a violation when the discharger fails to report and respond to the NAL exceedance(s).”
	3. e. The Regional Water Boards may assign additional monitoring, reporting, and BMP requirements upon obtaining site-specific information, including information about NAL exceedance(s).

### Diazinon TMDL Implementation Requirements

1. Compliance with this General Permit
	1. All Responsible Dischargers for the Diazinon TMDLs listed in Table H-2 shall comply with the requirements of this General Permit. Compliance with the requirements of this General Permit is consistent with the requirements and assumptions of the TMDL. The use of diazinon has been banned for non-agricultural use by the California Department of Pesticide Regulation and the use is prohibited at construction sites.

### Nutrient TMDL Implementation Requirements

1. Compliance with this General Permit
	1. All Responsible Dischargers for the Nutrient TMDLs listed in Table H-2 shall comply with the requirements of this General Permit.
2. Erosion and Sediment Control and RUSLE21[[15]](#footnote-16)5 Modeling
	1. A Responsible Discharger that identifies on-site sources of nutrients in their pollutant source assessment and that were assigned a mass-based WLA in an applicable Nutrient TMDL(s),1[[16]](#footnote-17)6 shall address the TMDL through the following in addition to complying with this General Permit:
		1. Comply with the site-specific erosion and sediment control, post-construction, and all other requirements in this General Permit;
		2. Install erosion and sediment controls that will result in predicted erosion rates that are equal to pre-construction conditions (e.g., undisturbed vegetation for the area) for each phase of the construction project;
		3. Use RUSLE2 modeling to calculate the predicted soil losses and sediment delivery rates when selecting temporary BMPs and controls to be applied during each phase of the site project. The RUSLE2 modeling included in the SWPPP shall include:
			1. a) Appropriate climatic variables, soil types, and slope topography for the area disturbed; and
			2. b) Calculated soil loss and sediment delivery rates for the selected BMPs and controls equal to, or less than, the soil loss and sediment delivery rates for pre-construction conditions during each phase of the construction project.
3. Numeric Action Level (NAL)
	1. The Responsible Discharger shall implement BMPs to address nutrients listed in the TMDL and prevent exceedances of the applicable NALs to the extent possible. The BMPs shall be visually inspected, maintained, repaired, and updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments D or E for the site’s Risk or Type.
	2. The Responsible Discharger shall conduct non-visible pollutant monitoring, as required in Attachment D or E Section III.D.3, when the TMDL-specific pollutant may be discharged due to a failure to implement BMPs, a container spill or leak, or a breach, failure, or malfunction.
	3. a. The Responsible Discharger that identifies on-site sources of nutrients in their pollutant source assessment, and is required to comply with an Nutrients TMDL-related NAL, shall compare all single sample the non-visible pollutant monitoring analytical results to the applicable NAL(s) in Table H-2 in addition to complying with this General Permit.

b. The Responsible Discharger shall ensure that any BMPs necessary to address nutrients are implemented, sampling for non-visible pollutants is conducted, and exceedances of the applicable NALs are prevented to the extent possible. The BMPs shall be visually inspected, maintained, repaired, and kept updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments A, C, D, or E for the site’s Risk or Type.

* 1. c. The Responsible Discharger shall certify and submit all analytical results in SMARTS within 30 days of receiving the results, or with 10 days of receiving the analytical laboratory results above an applicable NAL.
	2. d. A TMDL-related NAL exceedance occurs when two or more on the second, and each subsequent, analytical results result for samples taken at each from any and all discharge location(s) within the same drainage area, during the same reporting year exceeds and taken in accordance with Attachment D or E Section III.D.3, that is above the concentration set forth in the applicable NAL. An NAL exceedance is not a violation of this General Permit, however, it is a violation when the discharger fails to report and respond to the NAL exceedance(s).”
	3. e. The Regional Water Boards may assign additional monitoring, reporting, and BMP requirements upon obtaining site-specific information, including information about the NAL exceedance(s).
1. Numeric Effluent Limitation (NEL)
	1. The Responsible Discharger shall implement BMPs to address nutrients and prevent exceedances of the applicable NELs. The BMPs shall be visually inspected, maintained, repaired, and updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments D or E for the site’s Risk or Type.
	2. The Responsible Discharger shall conduct non-visible pollutant monitoring, as required in Attachment D or E, Section III.D.3, when the TMDL-specific pollutant may be discharged due to a failure to implement BMPs, a container spill or leak, or a BMP breach, failure, or malfunction.
	3. a. A The Responsible Discharger that identifies on-site sources of nutrients in their pollutant source assessment, and is required to comply with Nutrient TMDL-related NEL(s), shall compare all single sample the non-visible pollutant monitoring analytical results to the applicable NEL(s) in Table H-2 in addition to complying with this General Permit. Compliance with an NEL is measured at the discharge location(s).
	4. b. The Responsible Discharger shall ensure that any BMPs necessary to address nutrients are implemented, sampling for non-visible pollutants is conducted, and exceedances of the applicable NELs are prevented. The BMPs shall be visually inspected, maintained, repaired, and kept updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments A, C, D, or E for the site’s Risk or Type.

c. The Responsible discharger shall certify and submit the analytical results in SMARTS within 10 30 days of receiving the analytical results demonstrating, or within 10 days of receiving results above an applicable the NEL exceedance(s).

* 1. d. A TMDL-related NEL exceedance occurs when two or more on the second, and each subsequent, analytical results result for samples taken at each from any and all discharge location(s) within the same drainage area within, during the same reporting year exceeds and taken in accordance with Attachment D or E Section III.D.3, that is above the concentration set forth in the applicable NEL. Upon exceedance of the applicable NEL, the Responsible Discharger shall comply with the Water Quality Based Corrective Actions in Section VI.R of this General Permit’s Order. An NEL exceedance is a violation of this General Permit and is subject to mandatory minimum penalties.
	2. e. The Regional Water Boards may assign additional monitoring, reporting, and BMP requirements upon obtaining site-specific information, including information about exceedances of the NEL(s).

### Sediment TMDL Implementation Requirements

1. Compliance with this General Permit
	1. All Responsible Dischargers for the Sediment TMDLs listed in Table H-2 are to comply with the requirements of this General Permit. Compliance with the requirements of this General Permit is consistent with the requirements and assumptions of the Sediment TMDLs, unless specified below.
2. Erosion and Sediment Control BMPs and RUSLE2 Modeling
	1. A Responsible Discharger assigned a mass-based sediment waste load allocation for sediment shall address the TMDL through the following in addition to complying with this General Permit:
		1. Comply with the site-specific erosion and sediment control, post-construction, and all other requirements in this General Permit;
		2. Use RUSLE2 modeling to calculate the predicted soil losses and sediment delivery rates when selecting temporary BMPs and controls to be applied during each phase of the site project. The RUSLE2 modeling included in the SWPPP shall include:
			1. a) Appropriate climatic variables, soil types, and slope topography for the area disturbed; and
			2. b) Calculated soil loss and sediment delivery rates for the selected BMPs and controls equal to, or less than, the soil loss and sediment delivery rates for pre-construction conditions during each phase of the construction project.
		3. A Responsible Discharger that is assigned a mass-based sediment waste load allocation of zero (0),1[[17]](#footnote-18)7 shall install erosion and sediment controls that will result in predicted erosion rates that are as protective as pre-construction conditions (e.g., undisturbed vegetation for the area). The calculated RUSLE2 soil loss and sediment delivery rates for the selected BMPs and controls shall be equal to, or less than, the soil loss and sediment delivery rates for pre-construction conditions during each phase of the construction project.
		4. A Responsible Discharger that is assigned a site-specific mass-based sediment waste load allocation,1[[18]](#footnote-19)8 shall install erosion and sediment controls that will result in predicted erosion rates that are equal to or less than the site-specific allocation for sediment loading. The calculated RUSLE2 soil loss and sediment delivery rates for the selected BMPs and controls shall be equal to, or less than, the site-specific mass-based sediment waste load allocation. The Responsible Discharger is required to calculate their site-specific mass-based sediment waste load allocation by multiplying the construction site’s area by the water body’s applicable load allocation,  provided in Table H-3.

Table H-3: TMDL Watersheds with Site-specific Mass-based Sediment WLAs1[[19]](#footnote-20)9

| **TMDL Watershed** | **WLA (tons/mi2/yr)** |
| --- | --- |
| Lower Eel River Watershed (Road, Episodic)2[[20]](#footnote-21)0 | 9 |
| Lower Eel River Watershed (Road, Chronic) | 17 |
| Lower Eel River Watershed (Bank Erosion) | 6 |
| Middle Fork Eel River – Black Butte Subwatershed | 7 |
| Middle Fork Eel River – Elk Creek Subwatershed | 41 |
| Middle Fork Eel River – Round Valley Subwatershed | 9 |
| Middle Fork Eel River – Upper Middle Fork Subwatershed | 9 |
| Middle Fork Eel River – Williams/Thatcher Subwatershed | 19 |
| Middle Fork Eel River Watershed | 23 |
| Upper Main Eel River Watershed (Large Features >3,000 yds3) | 36 |
| Upper Main Eel River Watershed (Road Related – Small Features) | 14 |
| Mad River Watershed (Roads) | 174 |
| Scott River Watershed (Roads and Small Streamside Features) | 69 |
| Trinity River – Upper Area Reference Subwatersheds2[[21]](#footnote-22)1 | 281 |
| Trinity River – Westside Tributaries Subwatershed | 105 |
| Trinity River – Upper Trinity Subwatershed | 690 |
| Trinity River – East Fork Tributaries Subwatershed | 65 |
| Trinity River – Eastside Tributaries Subwatershed | 60 |
| Trinity River – Weaver and Rush Creeks Subwatershed | 169 |
| Trinity River – Deadwood Creek, Hoadley Gulch, and Poker Bar Area Subwatershed | 68 |
| Trinity River – Lewiston Lake Area Subwatershed | 49 |
| Trinity River – Grass Valley Creek Subwatershed | 44 |
| Trinity River – Indian Creek Subwatershed | 81 |
| Trinity River – Reading and Browns Creek Subwatershed | 66 |
| Trinity River – Lower Middle Area Reference Subwatersheds2[[22]](#footnote-23)2 | 24 |
| Trinity River – Canyon Creek Subwatershed | 326 |
| Trinity River – Upper Tributaries Subwatershed | 67 |
| Trinity River – Middlle Middle Tributaries Subwatershed | 53 |
| Trinity River – Lower Tributaries Subwatershed | 55 |
| Trinity River – Lower Area Reference Subwatersheds2[[23]](#footnote-24)3 | 528 |
| Trinity River – Mill Creek and Tish Tang Subwatershed | 210 |
| Trinity River – Willow Creek Subwatershed | 94 |
| Trinity River – Campbell Creek and Supply Creek Subwatershed | 1961 |
| Trinity River – Lower Mainstem Area and Coon Creek Subwatershed | 63 |

1. Los Peñasquitos Lagoon Sediment TMDL
	1. All Responsible Dischargers for the Los Peñasquitos Lagoon Sediment TMDL shall provide an estimate of the representative flow rate of discharge from their the construction site project for at least one precipitation event, each reporting year, in addition to complying with this General Permit.
	2. The Responsible Discharger shall submit the representative flow estimate as a PDF attachment to the Annual Report (due in SMARTS no later than September 1 of each year).

### Temperature TMDL Implementation Requirements

1. Compliance with this General Permit
	1. All Responsible Dischargers for the Temperature TMDLs listed in Table H-2 shall comply with the requirements of this General Permit. Compliance with this General Permit is consistent with the requirements and assumptions of the North Coast Temperature TMDL Implementation Policy and no additional requirements are incorporated into this General Permit to implement Temperature TMDLs listed in Table H-2.

### Metals and Toxics TMDL Implementation Requirements

1. Compliance with this General Permit
	1. All Responsible Dischargers for the Metals or Toxics TMDLs listed in Table H-2 shall comply with the requirements of this General Permit. Compliance with the requirements of this General Permit is consistent with the requirements and assumptions of the Metals or Toxics TMDLs, unless specified below.
2. Erosion and Sediment Control BMPs and RUSLE2 Modeling
	1. A Responsible Discharger that identifies on-site sources of metals or toxics in their pollutant source assessment and are assigned a mass-based waste load allocation, shall address the TMDL through the following in addition to complying with this General Permit:
		1. Comply with the site-specific erosion and sediment control, post-construction, and all other requirements in this General Permit;
		2. Install erosion and sediment controls that will result in predicted erosion rates that are as protective as pre-construction conditions (e.g., undisturbed vegetation for the area) for each phase of the construction project;
		3. Use RUSLE2 modeling to calculate the predicted soil losses and sediment delivery rates when selecting temporary BMPs and controls to be applied during each phase of the site project. The RUSLE2 modeling included in the SWPPP shall include:
			1. a) Appropriate climatic variables, soil types, and slope topography for the area disturbed; and
			2. b) Calculated soil loss and sediment delivery rates for the selected BMPs and controls equal to, or less than, the soil loss and sediment delivery rates for pre-construction conditions during each phase of the construction project.
3. Numeric Action Level (NAL)
	1. The Responsible Discharger shall implement BMPs to address the metals or toxics listed in the TMDL and prevent exceedances of the applicable NALs to the extent possible. The BMPs shall be visually inspected, maintained, repaired, and updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments D or E for the site’s Risk or Type.
	2. The Responsible Discharger shall conduct non-visible pollutant monitoring, as required in Attachment D or E Section III.D.3, when the TMDL-specific pollutant may be discharged due to a failure to implement BMPs, a container spill or leak, or a BMP breach, failure, or malfunction.
	3. a. A The Responsible Discharger that identifies on-site sources of metals or toxics, and is required to comply with a Metals or Toxics TMDL-related NAL(s) in Table H-2, shall compare all single sample the non-visible pollutant monitoring analytical results to the applicable NAL(s) in Table H-2 in addition to complying with this General Permit. The Responsible Discharger may provide the Water Boards adequate information demonstrating that it is infeasible to analyze these NALs using an ELAP-certified laboratory for methods compliant with 40 Code of Federal Regulations Part 136. In this case, the Water Boards will specify the appropriate monitoring methods to determine compliance.

b. The Responsible Discharger shall ensure that any BMPs necessary to address metals or toxics are implemented, sampling for non-visible pollutants is conducted, and exceedances of the applicable NALs are prevented to the extent possible. The BMPs shall be visually inspected, maintained, repaired, and kept updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments A, C, D, or E for the site’s Risk or Type.

* 1. c. The Responsible Discharger shall certify and submit all analytical results in SMARTS within 30 days of receiving the results, or within 10 days of receiving the analytical laboratory results demonstrating above an applicable NAL exceedance(s).
	2. d. A TMDL-related NAL exceedance occurs when two or more on the second, and each subsequent, analytical results result for samples taken at each from any and all discharge location(s) within the same drainage area, during the same reporting year exceeds and taken in accordance with Attachment D or E Section III.D.3, that is above the concentration set forth in the applicable NAL. An NAL exceedance is not a violation of this General Permit, however, it is a violation when the discharger fails to report and respond to the NAL exceedance(s).
	3. e. The Regional Water Boards may assign additional monitoring, reporting, and BMP requirements upon obtaining site-specific information, including information about the NAL exceedance(s).
1. Numeric Effluent Limitation (NEL)
	1. The Responsible Discharger shall implement BMPs to address the metals or toxics listed in the TMDL and prevent exceedances of the applicable NELs. The BMPs shall be visually inspected, maintained, repaired, and updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments D or E for the site’s Risk Level or Type.
	2. The Responsible Discharger shall conduct non-visible pollutant monitoring, as required in Attachment D or E, Section III.D.3, when the TMDL specific pollutant may be discharged due to a failure to implement BMPs, a container spill or leak, or a BMP breach, failure, or malfunction.
	3. a. A The Responsible Discharger that identifies on-site sources of toxics or metals, and is required to comply with Metals or Toxics TMDL-related NEL(s), shall compare all single sample the non-visible pollutant monitoring analytical results to the applicable NEL(s) in Table H-2 in addition to complying with this General Permit. The Responsible Discharger may provide the Water Boards adequate information demonstrating that it is infeasible to analyze these NELs using an ELAP-certified laboratory for methods compliant with 40 Code of Federal Regulations Part 136. In this case, the Water Boards will specify the appropriate monitoring methods to determine compliance. Additionally, see the sediment-based approach for Los Angeles Area Lakes Toxics TMDL in Section I.G.5 below, if applicable.
	4. b. The Responsible Discharger shall ensure that any BMPs necessary to address metals or toxics are implemented, sampling for non-visible pollutants is conducted, and exceedances of the applicable NELs are prevented. The Metals or Toxics BMPs shall be visually inspected, maintained, repaired, and kept updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments A, C, D, or E for the site’s Risk or Type.

c. The Responsible discharger shall certify and submit the analytical results in SMARTS within 10 30 days of receiving the analytical results demonstrating the, or within 10 days of receiving results above an applicable NEL exceedance(s).

* 1. d. A TMDL-related NEL exceedance occurs when two or more on the second, and each subsequent, analytical results result for samples taken at each drainage area from any and all discharge location(s) within the same drainage area, during the same reporting year exceeds and taken in accordance with Attachment D or E Section III.D.3, that is above the concentration set forth in the applicable NEL. Upon exceedance of the applicable NEL, the Responsible Discharger shall comply with the Water Quality Based Corrective Actions in Section VI.R of this General Permit’s Order. An NEL exceedance is a violation of this General Permit and is subject to mandatory minimum penalties.
	2. e. The Regional Water Boards may assign additional monitoring, reporting, and BMP requirements upon obtaining site-specific information, including information about exceedances of the NEL(s).
1. Sediment-based Compliance Method
	1. To comply with the Los Angeles Area Lakes TMDL for chlordane, DDT, dieldrin, and PCBs and the Los Angeles and Long Beach Harbor Waters for copper, lead, and zinc, dischargers that discharge to 1) Peck Road Park Lake, Echo Park Lake, Legg Lakes, or Puddingstone Reservoir; or 2) Dominguez Channel or Torrance Lateral Channel shall use the following soil screening investigation as part of their pollutant source assessment and comply with the NEL for total suspended solids, if applicable.
		1. The discharger shall conduct a soil screening investigation as part of the pollutant source assessment, prior to initiation of land disturbing activities at the site, to determine whether subsequent NEL sampling is required. The soil screening investigation shall be conducted by, or under the direction of, a California Professional Engineer (PE), California Professional Geologist (PG), or Qualified SWPPP Developer (QSD).
		2. Soil Sampling Locations2[[24]](#footnote-25)4
			1. The discharger shall determine sampling plots by graphically applying a sampling grid with perpendicular line intersections to a map or other representation of the entire parcel or construction site. Each plot or block of the grid overlay must be sized in accordance with the scale specifications in Table H-4 below.

Table H-4: Soil Sampling Plot Specifications

| **Total Parcel or Site Area** | **>1 to 5 acres** | **>5 to 20 acres** | **>20 acres** |
| --- | --- | --- | --- |
| Sampling Grid Scale | One-quarter acre | One-half acre | One acre |

* + - 1. The discharger shall collect at least one sample from a randomly selected location within each sampling plot. To in ensure randomness, each plot shall be further divided into nine equal subsections, each assigned a unique number from 1 to 9. The discharger shall use a random number generator to select which subsection will be sampled; the sample location may be anywhere within the selected subsection.
		1. Soil Sample Collection
			1. The discharger may utilize hand sampling methods or devices such as mechanical or hydraulic earth drills to collect soil samples. Hand methods may be economically preferable as the required samples depths are less than 2 feet.
			2. The discharger shall obtain a three-point composite sample of in-situ soil, consisting of roughly equal volumes from 6 inches, 12 inches, and 18 inches below surface at each sample location. The listed depths are ‘start depths’ or ‘top depths’ for each composite portion. Samples shall be obtained from below the grass or forb root zone, if present.
			3. The total quantity of each sample shall be approximately 20 cubic inches of volume, or one pound (0.5 kilograms) by weight.
			4. The discharger shall immediately seal brass or acrylic sampling tubes sealed with Teflon™ squares and plastic caps. Otherwise, samples shall be placed in 500 milliliter glass jars with tightly sealable caps.
			5. The discharger shall label each sample with a unique identifier, the address or location of the site, the name of the person that collected the sample, and the collection date.
			6. Samples shall be maintained at a temperature of 4° Celsius until delivered to an ELAP-certified analytical laboratory under chain-of-custody for analysis.
		2. Soil Sample Analysis
			1. For some analytes, more than one EPA Method may be available, and the most suitable method may be selected by the analytical laboratory. Typical methods include:
				1. Chlordane, DDT, and dieldrin: EPA Method 8081B
				2. PCBs: EPA Method 8082A
				3. Total copper, lead, and zinc: EPA Method 6010
			2. The laboratory report must include the method reporting limit (RL) or reporting detection limit (RDL) for each analyte.
		3. Soil Sample Reporting

The discharger shall submit soil sample analytical results via SMARTS prior to initiation of land disturbing activities.

* + 1. TSS Numeric Effluent Limitation (NEL)
			1. If all sample analysis results for each applicable TMDL analyte are below their respective monitoring thresholds, as shown in Table H-5, the discharger is not considered a Responsible Discharger and does not have to sample for the TMDL-specific pollutant(s) under the non-visible pollutant monitoring requirements in Attachments D or E Section III.D.3, of this General Permit.

Table H-5: TMDL-specific Pollutant Thresholds for TSS Monitoring

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TMDL-specific Pollutant** | **DDT, Dieldrin, Chlordane, PCBs** | **Total Copper** | **Total Lead** | **Total Zinc** |
| Monitoring Threshold | Analytical Reporting Limit | 0.0097 mg/L | 0.0427 mg/L | 0.0697 mg/L |

* + - 1. If one or more of the specified TMDL analytes are detected above the respective monitoring thresholds, the discharger is considered a Responsible Discharger and shall:
				1. Implement sediment control BMPs that are effective at removing the applicable TMDL-specific pollutant, such as, but not limited to, media filter socks or fiber rolls, advanced silt fencing, and sedimentation basins. The BMPs shall be visually inspected, maintained, repaired, and updated in the SWPPP in accordance with this General Permit’s requirements specified in the Order and applicable requirements in Attachments D or E for the site’s Risk Level or Type.
				2. Collect samples and for total suspended solids (TSS) following the same procedure as non-visible pollutant monitoring, as required in Attachment D or E Section III.D.3, when the pollutants may be discharged due to failure to implement BMPs, a container spill or leak, or a BMP breach, failure, or malfunction.
				3. Analyze the collected samples using EPA Method 2540.
				4. Compare the analytical results to an NEL of 100 mg/L of TSS2[[25]](#footnote-26)5.
				5. Certify and submit the analytical results in SMARTS within 30 days of receiving the results or within 10 days of receiving results above the NEL for TSS.
			2. A TMDL-related NEL exceedance occurs on the second, and each subsequent, analytical result for samples taken from any and all discharge location(s) within the same drainage area, during the same reporting year and taken in accordance with Attachment D or E Section III.D.3, that is above the concentration set forth in the NEL. Upon exceedance of the NEL, the Responsible Discharger shall comply with the Water Quality Based Corrective Actions in section VI.R of this General Permit’s Order. An NEL exceedance is a violation of this General Permit and is subject to mandatory minimum penalties.
			3. The Regional Water Boards may require additional monitoring, reporting, and BMP requirements upon obtaining site-specific information, including information about exceedances of the NEL.
1. Water Quality Sampling for Los Angeles and Long Beach Harbor Waters Metals TMDL
This general permit implements sediment-based numeric effluent limitations as a surrogate for controlling discharges of copper, lead, and zinc. To correlate and quantify actual discharges of copper, lead, and zinc in construction stormwater with measured discharges of total suspended solids, the Responsible Dischargers as determined by Table H-2 above shall:
	* + - 1. Collect effluent water quality samples following the same procedure as non-visible pollutant monitoring, as required in Attachment D or E Section III.D.3, when the pollutants may be discharged due to failure to implement BMPs, a container spill or leak, or a BMP breach, failure, or malfunction.
				2. Analyze the collected samples for total copper, total lead, and total zinc, using an ELAP-certified laboratory for methods compliant with 40 Code of Federal Regulations Part 136.
				3. Certify and submit the analytical results in SMARTS within 30 days of receiving the results.
				4. The analytical results are informational only and will not be used to assess compliance with any limitation in this general permit.
1. 1 Some of the TMDLs did not specifically state total concentrations for the constituents. Unless otherwise stated in Attachment H Table H-2, the pollutant should be reported in total concentrations. [↑](#footnote-ref-2)
2. 2 Responsible Dischargers shall comply with the applicable TMDL-specific requirements by, and after, the date listed in the Compliance Deadline column. [↑](#footnote-ref-3)
3. 3 Some of the TMDLs did not specifically state total concentrations for the constituents. Unless otherwise stated in Attachment H Table H-2, the pollutant should be reported in total concentrations. [↑](#footnote-ref-4)
4. 4 Responsible Dischargers shall comply with the applicable TMDL-specific requirements by, and after, the date listed in the Compliance Deadline column. [↑](#footnote-ref-5)
5. 5 Some of the TMDLs did not specifically state total concentrations for the constituents. Unless otherwise stated in Attachment H Table H-2, the pollutant should be reported in total concentrations. [↑](#footnote-ref-6)
6. 6 Responsible Dischargers shall comply with the applicable TMDL-specific requirements by, and after, the date listed in the Compliance Deadline column. [↑](#footnote-ref-7)
7. 7 Some of the TMDLs did not specifically state total concentrations for the constituents. Unless otherwise stated in Attachment H Table H-2, the pollutant should be reported in total concentrations. [↑](#footnote-ref-8)
8. 8 Responsible Dischargers shall comply with the applicable TMDL-specific requirements by, and after, the date listed in the Compliance Deadline column. [↑](#footnote-ref-9)
9. 9 Some of the TMDLs did not specifically state total concentrations for the constituents. Unless otherwise stated in Attachment H Table H-2, the pollutant should be reported in total concentrations. [↑](#footnote-ref-10)
10. 10 Responsible Dischargers shall comply with the applicable TMDL-specific requirements by, and after, the date listed in the Compliance Deadline column. [↑](#footnote-ref-11)
11. 11 Some of the TMDLs did not specifically state total concentrations for the constituents. Unless otherwise stated in Attachment H Table H-2, the pollutant should be reported in total concentrations. [↑](#footnote-ref-12)
12. 12 Responsible Dischargers shall comply with the applicable TMDL-specific requirements by, and after, the date listed in the Compliance Deadline column. [↑](#footnote-ref-13)
13. 13 Some of the TMDLs did not specifically state total concentrations for the constituents. Unless otherwise stated in Attachment H Table H-2, the pollutant should be reported in total concentrations. [↑](#footnote-ref-14)
14. 14 Responsible Dischargers shall comply with the applicable TMDL-specific requirements by, and after, the date listed in the Compliance Deadline column. [↑](#footnote-ref-15)
15. 15 Revised Universal Soil Loss Equation, Version 2 [↑](#footnote-ref-16)
16. 16 Table H-2 specifies this Section in the Compliance Action column for these TMDLs. [↑](#footnote-ref-17)
17. 17 Table H-2 specifies this Section in the Compliance Action column for these TMDLs. [↑](#footnote-ref-18)
18. 18 Table H-2 specifies this Section in the Compliance Action column for these TMDLs. [↑](#footnote-ref-19)
19. **19** More information for specific TMDL watersheds and site-specific mass-based sediment TMDLs can be found in Section W.6.e of this General Permit’s Fact Sheet. [↑](#footnote-ref-20)
20. 20 Some WLAs may only apply to certain projects (e.g., roads, along banks, small or large features). WLAs that only apply to certain projects are noted in parentheticals. [↑](#footnote-ref-21)
21. 21 Stuarts Fork, Swift Creek, and Coffee Creek [↑](#footnote-ref-22)
22. 22 New River, Big French, Manzanita, North Fork, East Fork, North Fork [↑](#footnote-ref-23)
23. 23 Horse Linto Creek [↑](#footnote-ref-24)
24. 24 The sampling protocol was modified from United States Environmental Protection Agency [“Superfund Soil Screening Guidance”](https://www.epa.gov/superfund/superfund-soil-screening-guidance) and United States Department of Agriculture and Natural Resource Conservation Service [“Sampling Soils for Nutrient Management”](https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs141p2_036444.pdf). [↑](#footnote-ref-25)
25. 25 Nasrabadi T, Ruegner H, Schwientek M, Bennett J, Fazel Valipour S, Grathwohl P (2018) “Bulk metal concentrations versus total suspended solids in rivers: Time-invariant & catchment-specific relationships.”

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