# Change Sheet for Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants TMDL

| Page | Location | Action | Added or Deleted Text (additions are underlined, deletions are in strikeout) | Reason for Change |
|---|---|---|---|---|
| 5 & 29 | Basin Plan Amendment, "Sediment Targets" & "Implementation Plan" | Replace | "These sediment targets are not intended to be used as ~~necessarily~~ 'clean-up standards' for navigational, capital or maintenance dredging …" | It is not Regional Board staff's intent that the sediment targets be used as 'clean-up standards' for navigational, capital or maintenance dredging. |
| 32 | Basin Plan Amendment, Implementation Plan | Add/ Revise | "Sediment will be evaluated through the Sediment Quality Objective (SQO) process detailed in the Enclosed Bays and Estuaries Plan (i.e., SQO Part 1 as amended). If chemicals within sediments are contributing to an impaired benthic community or toxicity or fish tissue, then causative agent(s) will be determined using SQO recommended procedures, including SQO Part I (VII.F.)… The sites to be managed by the ~~Ports~~ responsible parties will be prioritized for management and coupled with ~~Port~~other planned projects when feasible. Prioritized sites shall include known hot spots, including but not limited to Consolidated Slip and Fish Harbor. For these prioritized sites, the sediment management plan shall include concrete actions and milestones, including numeric estimates of load reductions or removal, to remediate these priority areas and shall demonstrate that actions to address prioritized hot spots will be initiated and completed as early as possible during the 20-year TMDL implementation period. This process will prioritize …health of the benthic community and fish tissue. … determined following ~~port-~~established protocols …and national policy and guidance." | To more generally refer to the Enclosed Bays and Estuaries Plan, of which the SQO Part 1 is one section and which has been recently amended to include a narrative objective to address contaminants in resident finfish and wildlife.<br><br>To ensure that known hot spots and, in particular, Consolidated Slip and Fish Harbor, are addressed as early as possible during implementation. |
| 38 | Basin Plan Amendment, | Add | "The CSMP shall include concrete milestones with | To ensure that known hot spots |

| Page | Location | Action | Added or Deleted Text (additions are underlined, deletions are in strikeout) | Reason for Change |
|---|---|---|---|---|
| | Implementation Schedule, Task 5 | | numeric estimates of load reductions or removal, including milestones for remediating hot spots, including but not limited to Dominguez Channel Estuary, Consolidated Slip and Fish Harbor, for Executive Officer approval." | and, in particular, Dominguez Channel Estuary, Consolidated Slip and Fish Harbor, are addressed as early as possible during implementation. |
| 31 | Revised Tentative Basin Plan Amendment | Add | ... Los Angeles County, should they decide to take action that impacts one of the OUs, shall consult with US EPA's Superfund Division in advance of such action.<br><br>Detection of DDT compounds in water or sediment samples collected within Torrance Lateral shall trigger additional monitoring, by parties to be determined by the Executive Officer, in coordination with EPA, to evaluate potential contribution from contaminated soils related to upstream Montrose operable units discharging via the Kenwood storm drain. Upon reconsideration of the TMDL, all monitoring results for DDT compounds collected by responsible parties or other entities shall be considered as part of source analysis and to determine potential future allocation(s) that may be necessary to minimize impacts to downstream waters and restore beneficial uses in TMDL waterbodies.<br><br>▪ Phase III | In response to comment, staff found that reconsideration of allocations for DDT could be advisable upon review of additional data. |
| 33 | Revised Tentative Basin Plan Amendment | Add | ... proposed sediment cleanup will not aggravate the situation or further interfere with the OU2 site.<br><br>Detection of DDT compounds in water or sediment samples collected within Torrance Lateral shall trigger additional monitoring, by parties to be determined by the Executive Officer, in coordination with EPA, to evaluate potential contribution from contaminated soils related to upstream Montrose operable units discharging via the Kenwood storm drain. Upon reconsideration of the TMDL, all monitoring results for DDT compounds collected by responsible parties or other entities shall be considered as part of source analysis and | In response to comment, staff found that reconsideration of allocations for DDT could be advisable upon review of additional data. |

| Page | Location | Action | Added or Deleted Text (additions are underlined, deletions are in strikeout) | Reason for Change |
|---|---|---|---|---|
| | | | to determine potential future allocation(s) that may be necessary to minimize impacts to downstream waters and restore beneficial uses in TMDL waterbodies.<br><br>▪ Phase II | |
| 35 | Revised Tentative Basin Plan Amendment | Add | ...estimate air deposition more completely. Study results could provide data to reconsider pollutant-specific allocations in this TMDL.<br><br>Detection of DDT compounds in water or sediment samples collected within Torrance Lateral shall trigger additional monitoring, by parties to be determined by the Executive Officer, in coordination with EPA, to evaluate potential contribution from contaminated soils related to upstream Montrose operable units discharging via the Kenwood storm drain. Upon reconsideration of the TMDL, all monitoring results for DDT compounds collected by responsible parties or other entities shall be considered as part of source analysis and to determine potential future allocation(s) that may be necessary to minimize impacts to downstream waters and restore beneficial uses in TMDL waterbodies.<br><br>As allocation-specific data are collected, interim targets for the end of Phase II may be identified... | In response to comment, staff found that reconsideration of allocations for DDT could be advisable upon review of additional data. |
| 37 | Revised Tentative Basin Plan Amendment, last three bullets under Consolidated Slip Responsible Parties subgroup | Delete | • Consolidated Slip Responsible Parties subgroup[1]<br>➢ Consolidated Slip MS4 Permittees<br>▪ Los Angeles County<br>▪ Los Angeles County Flood Control District<br>▪ City of Los Angeles<br>~~▪ City of Carson~~<br>~~▪ City of Gardena~~<br>~~▪ City of Torrance~~ | In response to comment, staff reviewed the drainage system that drains to Consolidated Slip and found that City of Carson, City of Gardena, and City of Torrance do not discharge directly to Consolidated Slip. Therefore, the three listed cities are removed from Consolidated Slip Responsible Parties subgroup. |

| Page | Location | Action | Added or Deleted Text (additions are underlined, deletions are in strikeout) | Reason for Change |
|---|---|---|---|---|
| 24 & 27 | Basin Plan Amendment, Monitoring Plan | Add | "…in accordance with the EO approved monitoring plan. Locations for sediment triad assessment and the methodology for combining results from sampling locations to determine sediment conditions shall be specified in the MRP …" | To ensure that sampling results are appropriately combined to determine sediment condition in various parts of the impaired waters. |
| 22 | Basin Plan Amendment | Add | "Compliance with these bioaccumulative TMDLs may be demonstrated via ~~either~~ any of ~~two~~four … c. Sediment numeric targets to protect fish tissue are met in bed sediments over a three-year averaging period. d. Demonstrate that the sediment quality condition protective of fish tissue is achieved per the Statewide Enclosed Bays and Estuaries Plan, as amended to address contaminants in resident finfish and wildlife." | Addition of alternative means of demonstrating compliance with bioaccumulative TMDLs, consistent with the same approach for the 'direct effects' TMDLs. |
| 34 | Basin Plan Amendment, Implementation Plan | Add/ Revise | "Optional special studies, which could result in changes to these TMDLs, include but are not limited to: studies to further refine the site specific link between sediment pollutant concentrations, depth of bed sediment contamination and fish tissue concentrations; foraging ranges of …"<br><br>"…additional diazinon data. Completion of studies to further refine the site specific link between sediment pollutant concentrations and fish tissue pollutant concentrations and evaluate the range and habitat of specific fish populations will be used to evaluate changes in TMDL targets, WLAs and LAs, and to guide future implementation actions."<br><br>"~~If appropriate, t~~The TMDL will be…" | In response to comments, to provide an opportunity to refine the linkage between sediment pollutant concentrations, depth of sediment contamination and fish tissue concentrations used to establish sediment targets to protect fish tissue from impairment, and to evaluate results at the TMDL reconsideration to modify sediment targets and allocations and implementation measures if necessary to achieve fish tissue targets.<br><br>Change to make consistent with the scheduled reconsideration of the TMDL. |

| Page | Location | Action | Added or Deleted Text (additions are underlined, deletions are in strikeout) | Reason for Change |
|---|---|---|---|---|
| 17 & 21 | Basin Plan Amendment, "Final, mass-based TMDLs and Allocations for metals and PAHs" and "Final mass-based TMDLs and Allocations for total DDT and total PCBs" Table note *** | Add at end of Table Note *** | Studies may be conducted to determine the portion of the discharged pollutants that is deposited on bed sediment. The results of any such Executive Officer approved studies shall be evaluated at the TMDL reconsideration to modify these WLAs as appropriate. | The TMDL assumes absent data to demonstrate otherwise that 100% discharged pollutants are deposited on bed sediment; however, it is possible that some of the discharged pollutants are not deposited on bed sediment, but instead are suspended and eventually washed out of the Greater Harbor Waters. The additional text provides an opportunity for studies to be conducted to quantify the portion of the discharged pollutants that is deposited and evaluate the results to potentially modify the WLAs. |
| 12 | Basin Plan Amendment, "Mass-based Dominguez Channel Wet-weather Final Allocations" table notes, and " Concentration-based Dominguez Channel Wet-weather Final Allocations" table notes | Revise both table notes | "In addition to the wasteload allocations above, ~~S~~samples collected during flow conditions less than the 90th percentile flow rate must demonstrate that ~~achieve~~ the acute and chronic hardness dependent water quality criteria provided in the CTR are achieved." | Language clarification |
| 13 | Basin Plan Amendment, Torrance Lateral Allocations table | Add to table notes | "In addition to the wasteload allocations above, samples collected during flow conditions less than the 90th percentile flow rate must demonstrate that the acute and chronic hardness dependent water quality criteria provided in the CTR are achieved." | Correction of omission; table note is the same that for the Dominguez Channel Final Allocations tables. |
| 34 | Basin Plan Amendment, Implementation Plan | Add | "…targets, allocations, and the flow threshold for wet-weather conditions and the implementation actions…" | In response to comments, to ensure that final wet-weather allocations |

| Page | Location | Action | Added or Deleted Text (additions are underlined, deletions are in strikeout) | Reason for Change |
|---|---|---|---|---|
| | | | "…may need to be adjusted. Furthermore, if impairments are identified during flow conditions less than the 90th percentile flow in Dominguez Channel and/or Torrance Lateral, additional allocations for those flow conditions will be developed and applied at the TMDL reconsideration." | are applied at the appropriate times, and that if impairments during flow conditions less than the 90th percentile are observed that they are addressed expeditiously using a holistic, watershed approach by incorporating new allocations into the existing TMDL. |
| 10 | Basin Plan Amendment, "Interim Allocation" | Add | **B. Freshwater Metals Interim Allocations - wet weather only**<br>Interim water allocations are assigned to stormwater dischargers (MS4, Caltrans, general construction and general industrial stormwater dischargers) and other NPDES dischargers. Interim water allocations are based on the 95th percentile of total metals data collected from January 2006 to January 2010 using a log-normal distribution. | Clarification regarding application of allocations. |
| 11 | Basin Plan Amendment, "Interim Allocation" | Add | **2. Dominguez Channel Estuary and Greater Los Angeles and Long Beach Harbor Waters:**<br><br>Interim sediment allocations are assigned to stormwater dischargers (MS4, Caltrans, general construction and general industrial stormwater dischargers) and other NPDES dischargers. Interim sediment allocations are based on the 95th percentile of sediment data collected from 1998-2006. | Clarification regarding application of allocations. |
| 12 | Basin Plan Amendment, "Dominguez Channel Freshwater Allocations" | Add | Allocations are assigned to both point (WLA) and nonpoint sources (LA). A mass-based LA has been developed for direct atmospheric deposition. A mass-based waste load allocation (WLA) is divided between the MS4 permittees and Caltrans under its NPDES stormwater permit by subtracting the other stormwater or NPDES waste load allocations, air deposition and the margin of safety from the | Clarification |

| Page | Location | Action | Added or Deleted Text (additions are underlined, deletions are in strikeout) | Reason for Change |
|---|---|---|---|---|
| | | | total loading capacity. | |
| 12 & 13 | Basin Plan Amendment, "Torrance Lateral Freshwater and Sediment Allocations" | Add | Sediment waste load allocations are assigned to all other dischargers to Torrance Lateral equal to the concentration-based sediment targets.<br><br>Torrance Lateral Wet-weather Waste Load Allocations and Sediment Waste Load Allocations, concentration-based | Clarification |
| 13 | Basin Plan Amendment, Waste Load Allocations for ExxonMobil table | Replace – in table notes | "… ~~dischargers~~ discharges should not exceed…" | Typographical correction |
| 14 | Basin Plan Amendment, Receiving (salt) Water Column Concentration-Based Waste Load Allocations | Add | "~~Inner~~ Greater Harbor Waters" | Correction to make consistent with text |
| 17 & 21 | Basin Plan Amendment, "Final, mass-based TMDLs and Allocations for metals and PAHs" and "Final mass-based TMDLs and Allocations for total DDT and total PCBs" Tables | Add under "LA River Estuary – TMDL" | ***"LAR Estuary dischargers*"*** | Clarification |
| 18 | Basin Plan Amendment, "Mass-based Allocations for Bioaccumulative Compounds" | Replace | Mass-based WLAs are assigned for TIWRP ~~TITP~~ and other point sources that have sufficient discharge flow data. Municipal stormwater sources, including the Los Angeles, Long Beach, Caltrans and other MS4 co-permittees, are assigned a single, mass-based allocation by permit, depending on the waterbody. | Typographical correction |
| 19 | Basin Plan Amendment | Add | "The Greater Harbor Waters (excluding LA River Estuary and Consolidated Slip) bed sediment LA …" | Clarification of application of LAs |
| 39 | Basin Plan Amendment, | Delete | "…Regional Board will reconsider targets, WLAs, and | Change to make consistent with the |

<table>
<tr><th>Page</th><th>Location</th><th>Action</th><th>Added or Deleted Text<br>(additions are underlined, deletions are in strikeout)</th><th>Reason for Change</th></tr>
<tr><td></td><td>Implementation Schedule, Task 10</td><td></td><td>LAs based on new policies, data or special studies ~~as necessary~~.”</td><td>scheduled TMDL reconsideration.</td></tr>
<tr><td>10</td><td>Revised Tentative Basin Plan Amendment</td><td>Add</td><td>Concentration-based Dominguez Channel <u>and Torrance Lateral</u> freshwater interim metal allocations
<table>
<tr><th></th><th>Total Copper</th><th>Total Lead</th><th>Total Zinc</th></tr>
<tr><td>allocation (µg/L)</td><td>207.51</td><td>122.88</td><td>898.87</td></tr>
</table></td><td>In response to comment, staff found that the addition will provide clarity.</td></tr>
<tr><td>8<br>[13-2.8]</td><td>Resolution, Finding 28</td><td>Add</td><td>“The Basin Plan amendment incorporating a TMDL <u>and implementation schedule</u> for Toxic Pollutants in …must be submitted for review and approval by the State Board, the State Office of Administrative Law (OAL) <u>pursuant to CWA section 303(d) and section 303(c) as appropriate,</u> and the U.S. EPA.”</td><td>Clarification of the federal statutes that the Regional Board via the State Board will request approval under from EPA.</td></tr>
<tr><td>9<br>[13-2.9]</td><td>Resolution, Resolved 4</td><td>Add</td><td>“…and forward it <u>for review and approval</u> to OAL and, <u>finally, for review and approval pursuant to CWA section 303(d), and section 303(c) as appropriate, to</u> the U.S. EPA.”</td><td>Clarification of the federal statutes that the Regional Board via the State Board will request approval under from EPA.</td></tr>
<tr><td>13<br>[13-4.22]</td><td>Revised Draft Staff Report, Table 2-5</td><td>Delete</td><td>Table 2-5 1998 303(d) list of metal and organic compound impairments, shown here by analytical units as defined in consent decree
<table>
<tr><th>Water body name</th><th>Tissue</th><th>Sediment</th></tr>
<tr><td colspan="3">Analytical Unit #73</td></tr>
<tr><td>Dominguez Channel freshwater</td><td>Aldrin*, Chem A* Chlordane*, Dieldrin* DDT*, PCBs*</td><td></td></tr>
<tr><td>Dominguez Channel estuary</td><td>Aldrin*, Chem A* Chlordane, Dieldrin DDT, PCBs</td><td>Benthic community effects</td></tr>
<tr><td>Consolidated Slip</td><td>Chlordane, Dieldrin DDT, PCBs, ~~toxaphene~~</td><td>Toxicity, benthic community effects</td></tr>
</table></td><td>In response to comment, staff found that toxaphene was not listed on the 1998 303(d) list but was listed on 2006 303(d). Therefore, toxaphene is removed from Table 2-5.</td></tr>
</table>