



Los Angeles Regional Water Quality Control Board

October 14, 2015

Mr. Timothy Hayes
Director – Pipeline and Terminal Operations
Tesoro Logistics Operation, LLC
Marine Terminal 2
1300 Pier B Street
Long Beach, CA 90813

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED NO. 7008 1140 0002 8671 9752

Dear Mr. Hayes:

TRANSMITTAL OF THE WASTE DISCHARGE REQUIREMENTS (WDRs) AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR TESORO LOGISTICS OPERATION, LLC, MARINE TERMINAL 2, LONG BEACH, CA. (NPDES NO. CA0000442, CI NO. 6802).

Our letters dated August 11, 2015, and September 25, 2015, transmitted the tentative and revised tentative waste discharge requirements (WDRs) for renewal of your permit for the discharge of wastes under the National Pollutant Discharge Elimination System (NPDES) Program.

Pursuant to Division 7 of the California Water Code, this Regional Water Board at a public hearing held on October 8, 2015, reviewed the proposed requirements, considered all factors in the case, and adopted Order No. R4-2015-0200 (NPDES permit). Order R4-2015-0200 serves as an NPDES permit, and it expires on November 30, 2020. Section 13376 of the California Water Code requires that an application/Report of Waste Discharge for a new permit must be filed at least 180 days before the expiration date.

You are required to implement the Montoring and Reporting Program (MRP) on the effective date (December 1, 2015) of Order No. R4-2015-0200. Your first monitoring report for the period of January 2016 through March 2016, is due by May 1, 2015. Tesoro – Marine Terminal 2 will electronically submit Self-Monitoring Reports (SMRs) using the State Water Board's California Integrated Water Quality System (CIWQS) (http://www.waterboards.ca.gov/ciwqs/index.html).

When submitting monitoring or technical reports to the Regional Water Board per these requirements, please include a reference to Compliance File CI-6802 and NPDES No. CA0000442, which will assure that the reports, are directed to the appropriate file and staff.

We are sending the paper copy of the Permit to the Discharger only. For those on the mailing list or other interested parties who would like access to a copy of the Permit, please go to the Regional Water Board's website at:

http://www.waterboards.ca.gov/losangeles/board_decisions/adopted_orders/by_permits_tools.sht ml.

If you have any questions, please contact Mazhar Ali at (213) 576-6652.

Sincerely,

Cassandra D. Owens, Chief

Industrial Permitting Unit (NPDES)

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Enclosures

Mailing List (Via Email Only)

Ms. Robyn Stuber, Environmental Protection Agency, Region 9, Permits Branch (WTR-5)

Ms. Becky Mitschele, Environmental Protection Agency, Region 9

Mr. Kenneth Wong, U.S. Army Corps of Engineers

Mr. Bryant Chesney, NOAA, National Marine Fisheries Service

Mr. Jeff Phillips, Department of Interior, U.S. Fish and Wildlife Service

Mr. William Paznokas, Department of Fish and Wildlife, Region 5

NPDES Wastewater Unit, Div. of Water Quality, State Water Resources Control Board

Mr. Kurt Souza, State Water Resource Control Board, Drinking Water Division

Ms. Teresa Henry, California Coastal Commission, South Coast Region

Mr. Tommy Smith, Los Angeles County, Department of Public Works

Mr. Angelo Bellomo, Los Angeles County, Department of Public Health

Ms. Rita Kampalath, Heal the Bay

Ms. Bruce Reznik, Los Angeles WaterKeeper

Ms. Johanna Dyer, Natural Resources Defense Council

Ms. Becky Hayat, Natural Resources Defense Council

Ms. Kristy Allen, TetraTech

Ms. Donna M. DiRocco, Tesoro LA Basin Marine Terminals

Mr. James Vernon, Port of Long Beach

Mr. Anthony Arevalo, City of Long Beach

Mr. Jae Kim, TetraTech

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

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ORDER R4-2015-0200 NPDES NO. CA0000442

WASTE DISCHARGE REQUIREMENTS FOR THE TESORO LOGISTICS OPERATIONS, LLC MARINE TERMINAL 2

The following Discharger is subject to waste discharge requirements (WDR's) set forth in this Order:

Table 1. Discharger Information

Discharger	Tesoro Logistics Operations, LLC	
Name of Facility	Marine Terminal 2	
Facility Address	1300 Pier B Street	
	Long Beach, CA 90813	
	Los Angeles County	

Table 2. Discharge Location

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
001	Untreated Storm water from Tank Farm 1, Berth 77	33.775972° N	-118.212806° W	Long Beach Inner Harbor
002	Untreated Storm water from Tank Farm 2, Berth 77	33.775944° N	-118.212889° W	Long Beach Inner Harbor
003	Untreated Storm water from Tank Farm 3, Berth 77	33.775222° N	-118.214694° W	Long Beach Inner Harbor

Table 3. Administrative Information

This Order was adopted on:	October 8, 2015
This Order shall become effective on:	December 1, 2015
This Order shall expire on:	November 30, 2020
The Discharger shall file a Report of Waste Discharge as an application for reissuance of WDR's in accordance with title 23, California Code of Regulations, and an application for reissuance of a National Pollutant Discharge Elimination System (NPDES) permit no later than:	180 days prior to the Order expiration date
The U.S. Environmental Protection Agency (U.S. EPA) and the California Regional Water Quality Control Board, Los Angeles Region have classified this discharge as follows:	Minor

July 23, 2015

Revised: September 24, 2015

I, Samuel Unger, Executive Officer, do hereby certify that this Order with all attachm	ents is
a full, true, and correct copy of the Order adopted by the California Regional Water (
Control Board, Los Angeles Region, on October 8, 2015.	,

July 23, 2015 Revised: September 24, 2015

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ORDER

I. FACILITY INFORMATION

Information describing the Tesoro Marine Terminal 2 (Facility) is summarized in Table 1 and in sections I and II of the Fact Sheet (Attachment F). Section I of the Fact Sheet also includes information regarding the Facility's permit application.

II. FINDINGS

The California Regional Water Quality Control Board, Los Angeles Region (Regional Water Board), finds:

- A. Legal Authorities. This Order serves as WDR's pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. EPA and chapter 5.5, division 7 of the Water Code (commencing with section 13370). It shall serve as an NPDES permit for point source discharges from this facility to surface waters.
- **B. Background and Rationale for Requirements.** The Regional Water Board developed the requirements in this Order based on information submitted as part of the application, through monitoring and reporting programs, and other available information. The Fact Sheet (Attachment F), which contains background information and rationale for the requirements in this Order, is hereby incorporated into and constitutes Findings for this Order. Attachments A through E and G through J are also incorporated into this Order.
- C. Notification of Interested Parties. The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe WDR's for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of the notification are provided in the Fact Sheet.
- D. Consideration of Public Comment. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the Public Hearing are provided in the Fact Sheet.

THEREFORE, IT IS HEREBY ORDERED that this Order supersedes Order R4-2009-0126 except for enforcement purposes, and, in order to meet the provisions contained in division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder, and the provisions of the CWA and regulations and guidelines adopted thereunder, the Discharger is authorized to discharge from the identified facility and outfalls into water of the United States and shall comply with the requirements in this Order. This action in no way prevents the Regional Water Board from taking enforcement action for past violations of the previous Order.

III. DISCHARGE PROHIBITIONS

- A. Wastes discharged at Discharge Points 001, 002 and 003 shall each be limited to 0.5 million gallons per day (MGD) and a total maximum discharge flow of 1.5 MGD of storm water as described in the Fact Sheet (Attachment F). The discharge of wastes from accidental spills or other sources is prohibited.
- B. Discharges of water, materials, thermal wastes, elevated temperature wastes, toxic wastes, deleterious substances, or wastes other than those authorized by this Order, to a storm drain system, Channel No. 2 of the Long Beach Inner Harbor, or other waters of the State, are prohibited.
- C. Neither the treatment nor the discharge of pollutants shall create pollution, contamination, or a nuisance as defined by Section 13050 of the Water Code.
- **D.** Wastes discharged shall not contain any substances in concentrations toxic to human, animal, plant, or aquatic life.

- E. The discharge shall not cause a violation of any applicable water quality standards for receiving waters adopted by the Regional Water Board or the State Water Resources Control Board (State Water Board) as required by the Federal CWA and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to section 303 of the Federal CWA, and amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.
- **F.** The discharge of any radiological, chemical, or biological warfare agent into the waters of the state is prohibited under Water Code section 13375.
- **G.** Any discharge of wastes at any point(s) other than specifically described in this Order is prohibited, and constitutes a violation of the Order.

IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

A. Effluent Limitations

1. Final Effluent Limitations - Discharge Point Nos. 001, 002, and 003

a. The Discharger shall maintain compliance with the following effluent limitations at Discharge Point Nos. 001, 002, and 003, with compliance measured at Monitoring Locations EFF-001, EFF-002, and EFF-003, respectively, as described in the attached MRP (Attachment E):

Table 4. Effluent Limitations at Discharge Points 001, 002, and 003

		Efflue	ent Limitations	Performance	
Parameter	Units	Maximum Daily	Instantaneous Minimum/Maximum	Goal	
Biochemical Oxygen Demand	mg/L	30			
(BOD) (5-day @ 20°C)	lbs/day1	125			
Total Suspended Solids	mg/L	75			
(TSS) ²	lbs/day1	313			
Oil and Grease	mg/L	15			
Oil and Grease	lbs/day1	63			
Total Phenols	mg/L	1.0			
Total Prieriois	lbs/day1	4.0			
Cultidae Tatal (ac C)	mg/L	0.1			
Sulfides, Total (as S)	lbs/day1	0.4			
Denzene	μg/L	1.0			
Benzene	lbs/day1	0.004			
En. II.	μg/L	10			
Ethylbenzene	lbs/day1	0.04			
Toluene	μg/L	10			
Toluene	lbs/day1	0.04			
Xylene	μg/L	10			
Aylerie	lbs/day1	0.04			
Total Petroleum	μg/L	100			
Hydrocarbons	lbs/day1	0.4			
рН	standard units		6.5/8.5		
Temperature	°F		86°F(Maximum)		

		Effluent Limitations		Performance	
Parameter	Units	Maximum Daily	Instantaneous Minimum/Maximum	Goal	
Chronic Toxicity ⁵	Pass or Fail, % Effect (TST)	Pass or % Effect<50			
Arsenic, Total Recoverable	μg/L	10			
Arsenic, Total Necoverable	lbs/day1	0.04			
Codmium Total Pagavarable	μg/L	5			
Cadmium, Total Recoverable	lbs/day1	0.02			
Observations (MI)	μg/L	50			
Chromium (VI)	lbs/day1	0.2			
Conner Total December 2,6	μg/L	6			
Copper, Total Recoverable ^{2,6}	lbs/day1	0.02			
Lead, Total Recoverable ^{2,6}	μg/L	14			
Lead, Total Necoverable	lbs/day1	0.02			
Margury Total Pagayarable	μg/L	2			
Mercury, Total Recoverable	lbs/day1	0.008			
Selenium, Total Recoverable	μg/L	10			
Selerium, Total Necoverable	lbs/day1	0.04			
Cilver Tetal Deseverable	μg/L	50			
Silver, Total Recoverable	lbs/day1	0.2			
Zinc, Total Recoverable ^{2,6}	μg/L	141			
Zinc, Total Necoverable	lbs/day1	0.6			
4,4'-DDT ^{2,6}	μg/L	0.0012			
ו טט ד,ד	lbs/day1	5 x 10 ⁻⁶			
Total PCBs ^{2,3,6}	μg/L	0.00034			
Total PODS	lbs/day1	1.4 x 10 ⁻⁶			
PAHs					
Benzo(a)pyrene ^{2,7}	μg/L			0.049 ^{4,8}	
Chrysene ^{2,7}	μg/L		LACD from Outfalls 00	0.049 ^{4,8}	

The mass limitations are based on a maximum flow of 0.5 MGD from Outfalls 001, 002, and 003, for a total of 1.5 MGD, and is calculated as follows:

Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

During each reporting period, if effluent monitoring results exceed both a TSS effluent limit and a CTR TMDL-based effluent limitation or performance goal for copper, lead, zinc, 4,4'-DDT, total PCBs, or PAHs (benzo(a)pyrene and chrysene) as specified in Table 4 of this Order, then the Discharger has not demonstrated compliance with the interim sediment allocations (Monitoring Thresholds, Table 5, Page 11, of this Order) specified by the Harbor Toxics TMDL, Resolution No. R11-008 (page 11, Item 2) and the Discharger is required to implement the effluent sediment monitoring program for that priority pollutant. The Discharger shall begin the effluent sediment monitoring program during the first discharge event following the effluent exceedance. An effluent sediment monitoring result at or below the interim sediment allocation and additional effluent sediment monitoring for those pollutants is not required. An effluent sediment monitoring result that exceeds the interim sediment allocation requires additional effluent sediment monitoring during discharge but not more frequently than once per year until the three-year average concentration for effluent sediment monitoring results is at or below the interim sediment allocation.

- Total PCBs (polychlorinated biphenyls) means the sum of chlorinated biphenyls whose analytical characteristics resembles those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260
- CTR human health criteria are not promulgated for total PAHs. Therefore, performance goals are based on CTR human health criteria for the individual PAHs, benzo(a)pyrene and chrysene. Benzo(a)pyrene and chrysene are selected because the State's 2010 303(d) List classifies the Los Angeles/Long Beach Inner Harbor as impaired for these PAH compounds. These performance goals are not enforceable effluent limitations. Rather, they act as triggers to determine when sediment monitoring is required for these compounds.
- "Pass" or "Fail" and "% Effect" for Maximum Daily Effluent Limitations (MDEL). The Discharger shall conduct chronic toxicity monitoring as specified in the MRP. The Discharger demonstrates compliance with the chronic toxicity MDELs if the chronic toxicity testing result meets one of the following:
 - i The chronic toxicity testing result is "Pass"; or
 - ii The percent effect is less than 50 if the chronic toxicity result is "Fail".
- The effluent limitations are based on the wasteload allocations (WLAs) in the Total Maximum Daily Load for Toxic Pollutants in Dominguez Channel and Greater Los Angeles and Long Beach Harbor Water (Harbor Toxics TMDL), Regional Water Board Resolution No. R11-008, and calculated using the CTR-SIP procedures.
- Samples analyzed must be unfiltered samples.
- Based on CTR criteria calculated using SIP procedures. This performance goal is not an enforceable effluent limitation. Rather, it acts as a trigger to determine when sediment monitoring is required for this compound (see footnote 2).

2. Interim Effluent Limitations

Not applicable

B. Land Discharge Specifications

Not Applicable

C. Recycling Specifications

Not Applicable

V. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

The discharge shall not cause the following in the Long Beach Inner Harbor:

- The normal ambient pH to fall below 6.5 nor exceed 8.5 units nor vary from normal ambient pH levels by more than 0.2 units.
- Surface water temperature to rise greater than 5° F above the natural temperature of the receiving waters at any time or place. At no time shall the temperature be raised above 86° F as a result of waste discharged.
- 3. The concentration of dissolved oxygen to fall below 5.0 mg/L at any time, and the median dissolved oxygen concentration for any three consecutive months to be less than 80 percent of the dissolved oxygen content at saturation.

4. Water Contact Standards

In marine water designated for water contact recreation (REC-1), the waste discharged shall not cause the following bacterial standards to be exceeded in the receiving water.

- a. Rolling 30-day Geometric Mean Limits
 - i. Total coliform density shall not exceed 1,000 CFU/100 ml.

- ii. Fecal coliform density shall not exceed 200 CFU/100 ml.
- iii. Enterococcus density shall not exceed 35 CFU/100 ml.
- b. Single Sample Maximum (SSM)
 - i. Total coliform density shall not exceed 10,000 CFU/100 ml.
 - ii. Fecal coliform density shall not exceed 400 CFU/100 ml.
 - iii. Enterococcus density shall not exceed 104 CFU/100 ml.
 - iv. Total coliform density shall not exceed 1,0001100 ml, if the ratio of fecal-to-total coliform exceeds 0.1.
- Exceedance of the total ammonia (as N) concentrations specified in the Regional Water Board Resolution No. 2004-022. Resolution No. 2004-022 revised the ammonia water quality objectives for inland surface waters not characteristic of freshwater in the 1994 Basin Plan, to be consistent with USEPA's "Ambient Water Quality Criteria for Ammonia (Saltwater) - 1989."
- 6. The presence of visible, floating, suspended or deposited macroscopic particulate matter or foam.
- 7. Oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the receiving water or on objects in the water.
- 8. Suspended or settleable materials, chemical substances or pesticides in amounts that cause nuisance or adversely affect any designated beneficial use.
- 9. Toxic or other deleterious substances in concentrations or quantities which cause deleterious effects on aquatic biota, wildlife, or waterfowl or render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
- 10. Accumulation of bottom deposits or aquatic growths.
- 11. Biostimulatory substances at concentrations that promote aquatic growth to the extent that such growth causes nuisance or adversely affects beneficial uses.
- 12. The presence of substances that result in increases of BOD that adversely affect beneficial uses
- 13. Taste or odor-producing substances in concentrations that alter the natural taste, odor, and/or color of fish, shellfish, or other edible aquatic resources; cause nuisance; or adversely affect beneficial uses.
- 14. Alteration of turbidity, or apparent color beyond present natural background levels.
- Damage, discolor, or formation of sludge deposits on flood control structures or facilities, or overloading of the design capacity.
- 16. Degradation of surface water communities and populations including vertebrate, invertebrate, and plant species.
- 17. Problems associated with breeding of mosquitoes, gnats, black flies, midges, or other pests.
- 18. Nuisance, or adversely affect beneficial uses of the receiving water.
- 19. Violation of any applicable water quality standards for receiving waters adopted by the Regional Water Board or State Water Board. If more stringent applicable water quality standards are promulgated or approved pursuant to section 303 of the CWA, or

amendments thereto, the Regional Water Board will revise or modify this Order in accordance with such standards.

B. Groundwater Limitations

Not Applicable

VI. PROVISIONS

A. Standard Provisions

- 1. The Discharger shall comply with all Standard Provisions included in Attachment D.
- The Discharger shall comply with the following provisions. In the event that there is any conflict, duplication, or overlap between provisions specified by this Order, the more stringent provision shall apply:
 - a. This Order may be modified, revoked, reissued, or terminated in accordance with the provisions of 40 C.F.R., sections 122.44, 122.62, 122.63, 122.64, 125.62 and 125.64. Causes for taking such actions include, but are not limited to: failure to comply with any condition of this Order; endangerment to human health or the environment resulting from the permitted activity; or acquisition of newly-obtained information which would have justified the application of different conditions if known at the time of Order adoption. The filing of a request by the Discharger for an Order modification, revocation, and issuance or termination, or a notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
 - b. The Discharger must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies regarding discharges of storm water to storm drain systems or other water courses under their jurisdiction; including applicable requirements in municipal storm water management programs developed to comply with NPDES permits issued by the Regional Water Board to local agencies.
 - Discharge of wastes to any point other than specifically described in this Order and permit is prohibited and constitutes a violation thereof.
 - d. The Discharger shall comply with all applicable effluent limitations, national standards of performance, toxic effluent standards, and all federal regulations established pursuant to sections 301, 302, 303(d), 304, 306, 307, 316, 318, 405, and 423 of the Federal CWA and amendments thereto.
 - e. These requirements do not exempt the operator of the waste disposal facility from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this waste disposal facility, and they leave unaffected any further restraints on the disposal of wastes at this site which may be contained in other statutes or required by other agencies.
 - f. Oil or oily material, chemicals, refuse, or other pollutionable materials shall not be stored or deposited in areas where they may be picked up by rainfall and carried off of the property and/or discharged to surface waters. Any such spill of such materials shall be contained and removed immediately.
 - g. A copy of these waste discharge specifications shall be maintained at the discharge facility so as to be available at all times to operating personnel.
 - h. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
 - i. Violation of any term or condition contained in this Order;

- ii. Obtaining this Order by misrepresentation, or failure to disclose all relevant facts;
- iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- If there is any storage of hazardous or toxic materials or hydrocarbons at this facility and if the facility is not manned at all times, a 24-hour emergency response telephone number shall be prominently posted where it can easily be read from the outside.
- j. The Discharger shall notify the Regional Water Board not later than 120 days in advance of implementation of any plans to alter production capacity of the product line of the manufacturing, producing or processing facility by more than ten percent. Such notification shall include estimates of proposed production rate, the type of process, and projected effects on effluent quality. Notification shall include submittal of a new report of waste discharge and the appropriate filing fee.
- k. The Discharger shall file with the Regional Water Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge.
- I. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Regional Water Board as soon as they know or have reason to believe that they have begun or expect to begin to use or manufacture intermediate or final product or byproduct of any toxic pollutant that was not reported on their application.
- m. In the event of any change in name, ownership, or control of these waste disposal facilities, the discharger shall notify this Regional Water Board of such change and shall notify the succeeding owner or operator of the existence of this Order by letter, copy of which shall be forwarded to the Regional Water Board.
- n. The Water Code provides that any person who violates a waste discharge requirement or a provision of the Water Code is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day or \$25 per gallon per day of violation; or some combination thereof, depending on the violation, or upon the combination of violations.
 - Violation of any of the provisions of the NPDES program or of any of the provisions of this Order may subject the violator to any of the penalties described herein, or any combination thereof, at the discretion of the prosecuting authority; except that only one kind of penalty may be applied for each kind of violation.
- o. The discharge of any product registered under the Federal Insecticide, Fungicide, and Rodenticide Act to any waste stream which may ultimately be released to waters of the United States, is prohibited unless specifically authorized elsewhere in this permit or another NPDES permit. This requirement is not applicable to products used for lawn and agricultural purposes.
- p. The discharge of any waste resulting from the combustion of toxic or hazardous wastes to any waste stream that ultimately discharges to waters of the United States is prohibited, unless specifically authorized elsewhere in this permit.
- q. The Discharger shall notify the Executive Officer in writing no later than 6 months prior to the planned discharge of any chemical, other than the products previously

reported to the Executive Officer, which may be toxic to aquatic life. Such notification shall include:

- i. Name and general composition of the chemical,
- ii. Frequency of use,
- iii. Quantities to be used.
- iv. Proposed discharge concentrations, and
- v. U.S. EPA registration number, if applicable.
- r. Failure to comply with provisions or requirements of this Order, or violation of other applicable laws or regulations governing discharges from this facility, may subject the Discharger to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may subject the Discharger to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities.
- s. In the event the Discharger does not comply or will be unable to comply for any reason, with any prohibition, average monthly effluent limitation, maximum daily effluent limitation, instantaneous minimum effluent limitation, instantaneous maximum effluent limitation, or receiving water limitation of this Order, the Discharger shall notify the Regional Water Board by telephone (213) 576-6600 within 24 hours of having knowledge of such noncompliance, and shall confirm this notification in writing within five days, unless the Regional Water Board waives confirmation. The written notification shall state the nature, time, duration, and cause of noncompliance, and shall describe the measures being taken to remedy the current noncompliance and, prevent recurrence including, where applicable, a schedule of implementation. Other noncompliance requires written notification as above at the time of the normal monitoring report.
- t. Prior to making any change in the point of discharge, place of use, or purpose of use of treated wastewater that results in a decrease of flow in any portion of a watercourse, the Discharger must file a petition with the State Water Board, Division of Water Rights, and receive approval for such a change. (Wat. Code § 1211.)

B. Monitoring and Reporting Program (MRP) Requirements

The Discharger shall comply with the MRP, and future revisions thereto, in Attachment E.

C. Special Provisions

1. Reopener Provisions

- a. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal CWA, and amendments thereto, the Regional Water Board may revise and modify this Order in accordance with such more stringent standards.
- b. This Order may be reopened to include effluent limitations for toxic constituents determined to be present in significant amounts in the discharge through a more comprehensive monitoring program included as part of this Order and based on the results of the RPA.
- c. This Order may be reopened and modified, to incorporate in accordance with the provisions set forth in 40 C.F.R., parts 122 and 124, to include requirements for the implementation of the watershed management approach or to include new MLs.

- d. This Order may be reopened and modified to revise effluent limitations as a result of future Basin Plan Amendments, such as an update of an objective or the adoption of a TMDL for the Long Beach Inner Harbor.
- e. This Order may be reopened for modification, or revocation and reissuance, as a result of the detection of a reportable priority pollutant generated by special conditions included in this Order. These special conditions may be, but are not limited to, fish tissue sampling, whole effluent toxicity results, monitoring requirements on internal waste stream(s), and monitoring for surrogate parameters. Additional requirements may be included in this Order as a result of the special condition monitoring data.

2. Special Studies, Technical Reports and Additional Monitoring Requirements

- a. Initial Investigation Toxicity Reduction Evaluation (TRE) Workplan. The Discharger shall submit to the Regional Water Board an Initial Investigation TRE workplan (1-2 pages) within 90 days of the effective date of this permit. This plan shall describe the steps the Discharger intends to follow in the event that toxicity is detected. See section V of the Monitoring and Reporting Program (Attachment E) for an overview of TRE requirements.
- b. Monitoring Thresholds Based on Sediment Interim Concentration-based Allocations in the Harbor Toxics TMDL for Sediment Monitoring of Effluent
 - i. The monitoring thresholds in Table 5 of this Order are based on the TMDL's interim sediment allocations (Greater Los Angeles and Long Beach Harbor Waters) for copper, lead, zinc, DDT, PAHs, and PCBs. Compliance with the TMDL's interim sediment allocations thresholds shall be demonstrated in accordance with Footnote 4 to Table 4 of this Order. Regardless of these monitoring thresholds, the Discharger shall ensure that effluent concentrations and mass discharges do not exceed levels that can be attained by performance of the Facility's treatment technologies existing at the time of permit issuance, reissuance, or modification. This monitoring is only required in years in which a discharge from the Facility to the receiving water occurs.

Table 5. Interim Sediment Monitoring Thresholds

Pollutant	Monitoring Thresholds based on Sediment Interim Concentration-based Allocations (mg/kg sediment)
Copper	142.3
Lead	50.4
Zinc	240.6
DDT	0.070
PAHs	4.58
PCBs	0.060

c. Harbor Toxics TMDL Water Column, Sediment, and Fish Tissue Monitoring for the Greater Los Angeles and Long Beach Harbor Waters Compliance Monitoring Program.

As defined in the Harbor Toxics TMDL, the Discharger is a "responsible party" because it is an "Individual Industrial Permittee". As such, either individually or with a collaborating group, the Discharger shall develop a monitoring and reporting plan (Monitoring Plan) and quality assurance project plan (QAPP) for the water column, sediment, and fish tissue in the Greater Los Angeles and Long Beach Harbor. These plans shall follow the "TMDL Element - Monitoring Plan" provisions in Attachment A to Resolution No. R11-008. The TMDL requires that the Monitoring Plan and QAPP shall

be submitted 20 months after the effective date (March 23, 2012) of the TMDL for public review and subsequent Executive Officer approval. Since the effective date of this Order exceeds the deadline for the Monitoring Plan and QAPP, the Discharger shall join a group already formed or develop a site specific monitoring plan. If the Discharger decides to join a group already formed, the Discharge shall notify the Regional Water Board within 90 days of the effective date of the Order. If the Discharger decides to develop a site specific Monitoring Plan with a QAPP, the Discharger shall notify the Regional Water Board within 90 days of the effective date of the Order and submit them to the Regional Water Board within 12 months of the effective date of the Order for public comment and the Regional Water Board approval. The Discharger shall begin monitoring 6 months after the Monitoring Plan and QAPP are approved by the Executive Officer, unless otherwise directed by the Executive Officer. The compliance monitoring program shall include water column, sediment, and fish tissue monitoring. The Discharger shall submit the annual monitoring report to the Regional Water Board by the specified date in the proposed Monitoring Plan. The annual monitoring report shall indicate compliance and non-compliance with waste load and/or load allocations.

The Compliance Monitoring Program shall include:

- i. Water Column Monitoring. Water samples and TSS samples shall be collected three times per year, during two wet weather events and one dry weather event. The first large storm event of the season shall be included as one of the wet weather monitoring events. Water samples and TSS samples shall be analyzed for a suite of compounds including, at a minimum, copper, lead, zinc, DDT, and PCBs. Sampling shall be designed to collect sufficient volumes of suspended solids to allow for analysis of the pollutants in the bulk sediment.
 - In addition, temperature, dissolved oxygen, pH, salinity, and receiving water flow shall be monitored during each sampling event.
- Sediment Monitoring. Sediment samples shall be collected in the Long Beach Inner Harbor.

Sediment chemistry samples shall be collected every 5 years (in addition to, and in between, the sediment triad sampling events as described below), beginning after the first sediment triad event, to evaluate trends in general sediment quality constituents and listed constituents relative to sediment quality targets. Chemistry data without accompanying sediment triad data shall be used to assess sediment chemistry trends and shall not be used to determine compliance.

Sediment quality objective evaluation as detailed in the sediment triad sampling as specified in the State Water Quality Control Plan for Enclosed Bays and Estuaries – Part 1 Sediment Quality (SQO Part 1) shall be performed every 5 years in coordination with the Biological Baseline and Bight regional monitoring programs, if possible. Sampling and analysis for the full chemical suite, two toxicity tests and four benthic indices as specified in the SQO Part 1 shall be conducted and evaluated. If moderate toxicity is observed, results shall be highlighted in annual reports and further analysis and evaluation to determine causes and remedies shall be required in accordance with the Executive Officer 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 Monitoring Plan. The sampling design shall be in compliance with Section VII.E of SQO Part 1.

iii. **Fish Tissue Monitoring.** Fish tissue samples shall be collected every two years from Long Beach Harbor and analyzed for chlordane, dieldrin, toxaphene, DDT, and

PCBs. At a minimum, three species shall be collected, including white croaker, a sport fish, and a prey fish.

iv. Sampling and Analysis Plan:

The Sampling and Analysis Plan must be proposed based on methods or metrics described in the State Water Board Water Quality Control Plan for Enclosed Bays and Estuaries - Part I Sediment Quality (Resolution 2008-0070 - SQO Part 1), and the U.S.EPA or American Society for Testing and Materials (ASTM). The plan shall include a list of chemical analytes for the water column and sediment.

v. Quality Assurance Project Plan:

The Quality Assurance Project Plan (QAPP) shall describe the project objectives and organization, functional activities, and quality assurance/quality control protocols for the water and sediment monitoring. The QAPP shall include protocols for sample collection, standard analytical procedures, and laboratory certification. All samples shall be collected in accordance with Surface Water Ambient Monitoring Program (SWAMP) protocols.

The details of the Harbor Toxics TMDL Water and Sediment Monitoring Plan including sampling locations and all methods shall be specified in the Monitoring Plans submitted to the Executive Officer.

3. Best Management Practices and Pollution Prevention

The Discharger shall submit, within 90 days of the effective date of this Order:

- a. A Storm Water Pollution Prevention Plan (SWPPP) that describes site-specific management practices for minimizing contamination of storm water runoff and for preventing contaminated storm water runoff from being discharged directly to waters of the State. The SWPPP shall be developed in accordance with the requirements in Attachment G.
- b. A Best Management Practices Plan (BMPP), that include site-specific plans and procedures implemented and/or to be implemented to prevent hazardous waste/material from being discharged to waters of the State. The BMPs shall be consistent with the general guidance contained in the U.S. EPA *Guidance Manual for Developing Best Management Practices (BMPs)* (EPA 833-B-93-004). In particular, a risk assessment of each area identified by the Discharger shall be performed to determine the potential for hazardous or toxic waste/material discharge to surface waters.
- c. A Spill Control Plan (SCP), that describes the preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events.

Each plan shall cover all areas of the Facility and shall include an updated drainage map for the Facility. The Discharger shall identify on a map of appropriate scale the areas that contribute runoff to the permitted discharge point; describe the activities in each area and the potential for contamination of storm water runoff and the discharge of hazardous waste/material; and address the feasibility of containment and/or treatment of storm water. The plans shall be reviewed annually and at the same time. Updated information shall be submitted within 30 days of revision.

The Discharger shall implement the SWPPP, BMPP, and SCP (or SPCC) within 10 days of the approval by the Executive Officer or no later than 90 days after submission to the Regional Water Board, whichever comes first. The plans shall be reviewed annually and at

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the same time. Updated information shall be submitted to the Regional Water Board within 30 days of revisions.

4. Construction, Operation and Maintenance Specifications

The Discharger shall at all times properly operate and maintain all facilities and systems installed or used to achieve compliance with this order.

5. Other Special Provisions

Not Applicable

6. Compliance Schedules

Not Applicable

VII. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in section IV of this Order will be determined as specified below:

A. Single Constituent Effluent Limitation.

If the concentration of the pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported Minimum Level (see Reporting Requirement I.G. of the MRP), then the Discharger is out of compliance.

B. Effluent Limitations Expressed as a Sum of Several Constituents.

If the sum of the individual pollutant concentrations is greater than the effluent limitation, then the Discharger is out of compliance. In calculating the sum of the concentrations of a group of pollutants, consider constituents reported as ND or DNQ to have concentrations equal to zero, provided that the applicable ML is used.

C. Effluent Limitations Expressed as a Median.

In determining compliance with a median limitation, the analytical results in a set of data will be arranged in order of magnitude (either increasing or decreasing order); and

- 1. If the number of measurements (n) is odd, then the median will be calculated as = $X_{(n+1)/2}$, or
- 2. If the number of measurements (n) is even, then the median will be calculated as= $[X_{n/2} + X_{(n/2)+1}]$, i.e. the midpoint between the n/2 and n/2+1 data points.

D. Multiple Sample Data.

When determining compliance with an AMEL for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

- The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
- 2. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or

both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

E. Average Monthly Effluent Limitation (AMEL).

If the average (or when applicable, the median determined by subsection 2 above for multiple sample data) of daily discharges over a calendar month exceeds the AMEL for a given parameter, this will represent a single violation; though the Discharger will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of noncompliance in a 31-day month). If only a single sample is taken during the calendar month and the analytical result for that sample exceeds the AMEL, the Discharger will be considered out of compliance for that calendar month. For anyone calendar month during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar month.

In determining compliance with the AMEL, the following provisions shall also apply to all constituents:

- If the analytical result of a single sample, monitored monthly, quarterly, semiannually, or annually, does not exceed the AMEL for that constituent, the Discharger has demonstrated compliance with the AMEL for that month;
- 2. If the analytical result of a single sample monitored monthly, quarterly, semiannually, or annually, exceeds the AMEL for any constituent, the Discharger shall collect four additional samples at approximately equal intervals during the month. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, whichever is later.

When all sample results are greater than or equal to the reported Minimum Level (see Reporting Requirement I.G. of the MRP), the numerical average of the analytical results of these five samples will be used for compliance determination.

When one or more sample results are reported as "Not-Detected (ND)" or "Detected, but Not Quantified (DNQ)" (see Reporting Requirement I.G. of the MRP), the median value of these four samples shall be used for compliance determination. If one or both of the middle values is NO or DNQ, the median shall be the lower of the two middle values.

- In the event of noncompliance with an AMEL, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the AMEL has been demonstrated.
- If only one sample was obtained for the month or more than a monthly period and the result exceeds the AMEL; then the Discharger is in violation of the AMEL.

F. Maximum Daily Effluent Limitation (MDEL).

If a daily discharge exceeds the MDEL for a given parameter, an alleged violation will be flagged and the discharger will be considered out of compliance for that parameter for that 1 day only within the reporting period. For any 1 day during which no sample is taken, no compliance determination can be made for that day.

G. Instantaneous Minimum Effluent Limitation.

If the analytical result of a single grab sample is lower than the instantaneous minimum effluent limitation for a parameter, a violation will be flagged and the discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for

each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both are lower than the instantaneous minimum effluent limitation would result in two instances of non-compliance with the instantaneous minimum effluent limitation).

H. Instantaneous Maximum Effluent Limitation.

If the analytical result of a single grab sample is higher than the instantaneous maximum effluent limitation for a parameter, a violation will be flagged and the discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both exceed the instantaneous maximum effluent limitation would result in two instances of non-compliance with the instantaneous maximum effluent limitation.

I. Median Monthly Effluent Limitation (MMEL)

If the median of daily discharges over a calendar month exceeds the MMEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of noncompliance in a 31-day month). However, an alleged violation of the MMEL will be considered one violation for the purpose of assessing State mandatory minimum penalties. If no sample (daily discharge) is taken over a calendar month, no compliance determination can be made for that month with respect to effluent violation determination, but compliance determination can be made for that month with respect to reporting violation determination.

J. Chronic Toxicity

The discharge is subject to determination of "Pass" or "Fail" and "Percent Effect" from a single-effluent concentration chronic toxicity test at the discharge IWC using the Test of Significant Toxicity (TST) statistical approach described in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, 2010), Appendix A, Figure A-1, and Table A-1. The null hypothesis (Ho) for the TST approach is: Mean discharge IWC response ≤0.75 × Mean control response. A test result that rejects this null hypothesis is reported as "Pass". A test result that does not reject this null hypothesis is reported as "Fail". The relative "Percent Effect" at the discharge IWC is defined and reported as ((Mean control response Mean discharge IWC response) Mean control response)) × 100.

The Maximum Daily Effluent Limitation (MDEL) for chronic toxicity is exceeded and a violation will be flagged when a chronic toxicity test, analyzed using the TST statistical approach, results in "Fail" and the "Percent Effect" is ≥0.50.

K. Mass and Concentration Limitations

Compliance with mass effluent limitations and concentration effluent limitations for the same parameter shall be determined separately. When the concentration for a parameter in a sample is reported as ND or DNQ, the corresponding mass emission rate determined using that sample concentration shall also be reported as ND or DNQ.

L. Bacterial Standards and Analyses

The geometric mean used for determining compliance with bacterial standards is calculated using the following equation:

Geometric Mean = $(C1 \times C2 \times ... \times Cn)^{1/n}$

where n is the number of days samples were collected during the period and C is the concentration of bacteria (MPN/100 mL or CFU/100 mL) found on each day of sampling. For bacterial analyses, sample dilutions should be performed so the expected range of values is

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TESORO LOGISTICS OPERATIONS, LLC MARINE TERMINAL 2

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bracketed (for example, with multiple tube fermentation method or membrane filtration method, 2 to 16,000 per 100 ml for total and fecal coliform, at a minimum, and 1 to 1000 per 100 ml for *Enterococcus*). The detection method used for each analysis shall be reported with the results of the analysis.

Detection methods used for coliforms (total and fecal) and *Enterococcus* shall be those presented in Table 1A of Part 136 (revised July 1, 2009), unless alternate methods have been approved by USEPA pursuant to Part 136 or improved methods have been determined by the Executive Officer and/or USEPA.

ATTACHMENT A - DEFINITIONS

Arithmetic Mean (µ)

Also called the average, is the sum of measured values divided by the number of samples. For ambient water concentrations, the arithmetic mean is calculated as follows:

Arithmetic mean = $\mu = \Sigma x / n$ where: Σx is the sum of the measured ambient water concentrations, and n is the number of samples.

Average Monthly Effluent Limitation (AMEL)

The highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Effluent Limitation (AWEL)

The highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Bioaccumulative

Those substances taken up by an organism from its surrounding medium through gill membranes, epithelial tissue, or from food and subsequently concentrated and retained in the body of the organism.

Carcinogenic

Pollutants are substances that are known to cause cancer in living organisms.

Coefficient of Variation (CV)

CV is a measure of the data variability and is calculated as the estimated standard deviation divided by the arithmetic mean of the observed values.

Daily Discharge

Daily Discharge is defined as either: (1) the total mass of the constituent discharged over the calendar day (12:00 am through 11:59 pm) or any 24-hour period that reasonably represents a calendar day for purposes of sampling (as specified in the permit), for a constituent with limitations expressed in units of mass or; (2) the unweighted arithmetic mean measurement of the constituent over the day for a constituent with limitations expressed in other units of measurement (e.g., concentration).

The daily discharge may be determined by the analytical results of a composite sample taken over the course of one day (a calendar day or other 24-hour period defined as a day) or by the arithmetic mean of analytical results from one or more grab samples taken over the course of the day.

For composite sampling, if 1 day is defined as a 24-hour period other than a calendar day, the analytical result for the 24-hour period will be considered as the result for the calendar day in which the 24-hour period ends.

Detected, but Not Quantified (DNQ)

DNQ are those sample results less than the RL, but greater than or equal to the laboratory's MDL. Sample results reported as DNQ are estimated concentrations.

Dilution Credit

Dilution Credit is the amount of dilution granted to a discharge in the calculation of a water quality-based effluent limitation, based on the allowance of a specified mixing zone. It is calculated from the

dilution ratio or determined through conducting a mixing zone study or modeling of the discharge and receiving water.

Effluent Concentration Allowance (ECA)

ECA is a value derived from the water quality criterion/objective, dilution credit, and ambient background concentration that is used, in conjunction with the coefficient of variation for the effluent monitoring data, to calculate a long-term average (LTA) discharge concentration. The ECA has the same meaning as waste load allocation (WLA) as used in U.S. EPA guidance (Technical Support Document For Water Quality-based Toxics Control, March 1991, second printing, EPA/505/2-90-001).

Enclosed Bays

Enclosed Bays means indentations along the coast that enclose an area of oceanic water within distinct headlands or harbor works. Enclosed bays include all bays where the narrowest distance between the headlands or outermost harbor works is less than 75 percent of the greatest dimension of the enclosed portion of the bay. Enclosed bays include, but are not limited to, Humboldt Bay, Bodega Harbor, Tomales Bay, Drake's Estero, San Francisco Bay, Morro Bay, Los Angeles-Long Beach Harbor, Upper and Lower Newport Bay, Mission Bay, and San Diego Bay. Enclosed bays do not include inland surface waters or ocean waters.

Estimated Chemical Concentration

The estimated chemical concentration that results from the confirmed detection of the substance by the analytical method below the ML value.

Estuaries

Estuaries means waters, including coastal lagoons, located at the mouths of streams that serve as areas of mixing for fresh and ocean waters. Coastal lagoons and mouths of streams that are temporarily separated from the ocean by sandbars shall be considered estuaries. Estuarine waters shall be considered to extend from a bay or the open ocean to a point upstream where there is no significant mixing of fresh water and seawater. Estuarine waters included, but are not limited to, the Sacramento-San Joaquin Delta, as defined in Water Code section 12220, Suisun Bay, Carquinez Strait downstream to the Carquinez Bridge, and appropriate areas of the Smith, Mad, Eel, Noyo, Russian, Klamath, San Diego, and Otay rivers. Estuaries do not include inland surface waters or ocean waters.

Inland Surface Waters

All surface waters of the state that do not include the ocean, enclosed bays, or estuaries.

Instantaneous Maximum Effluent Limitation

The highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

Instantaneous Minimum Effluent Limitation

The lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

Maximum Daily Effluent Limitation (MDEL)

The highest allowable daily discharge of a pollutant, over a calendar day (or 24-hour period). For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the arithmetic mean measurement of the pollutant over the day.

Median

The middle measurement in a set of data. The median of a set of data is found by first arranging the measurements in order of magnitude (either increasing or decreasing order). If the number of measurements (n) is odd, then the median = $X_{(n+1)/2}$. If n is even, then the median = $(X_{n/2} + X_{(n/2)+1})/2$ (i.e., the midpoint between the n/2 and n/2+1).

Method Detection Limit (MDL)

MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as defined in 40 C.F.R. part 136, Attachment B, revised as of July 3, 1999.

Minimum Level (ML)

ML is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

Mixing Zone

Mixing Zone is a limited volume of receiving water that is allocated for mixing with a wastewater discharge where water quality criteria can be exceeded without causing adverse effects to the overall water body.

Not Detected (ND)

Sample results which are less than the laboratory's MDL.

Persistent Pollutants

Persistent pollutants are substances for which degradation or decomposition in the environment is nonexistent or very slow.

Pollutant Minimization Program (PMP)

PMP means waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of the PMP shall be to reduce all potential sources of a priority pollutant(s) through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. The Regional Water Board may consider cost effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan, if required pursuant to Water Code section 13263.3(d), shall be considered to fulfill the PMP requirements.

Pollution Prevention

Pollution Prevention means any action that causes a net reduction in the use or generation of a hazardous substance or other pollutant that is discharged into water and includes, but is not limited to, input change, operational improvement, production process change, and product reformulation (as defined in Water Code section 13263.3). Pollution prevention does not include actions that merely shift a pollutant in wastewater from one environmental medium to another environmental medium, unless clear environmental benefits of such an approach are identified to the satisfaction of the State Water Resources Control Board (State Water Board) or Regional Water Board.

Reporting Level (RL)

The RL is the ML (and its associated analytical method) chosen by the Discharger for reporting and compliance determination from the ML's included in this Order, including an additional factor if applicable as discussed herein. The ML's included in this Order correspond to approved analytical methods for reporting a sample result that are selected by the Regional Water Board either from Appendix 4 of the SIP in accordance with section 2.4.2 of the SIP or established in accordance with section 2.4.3 of the SIP. The ML is based on the proper application of method-based analytical procedures for sample preparation and the absence of any matrix interferences. Other factors may be applied to the ML depending on the specific sample preparation steps employed. For example, the treatment typically applied in cases where there are matrix-effects is to dilute the sample or sample aliquot by a factor of ten. In such cases, this additional factor must be applied to the ML in the computation of the RL.

Source of Drinking Water

Any water designated as municipal or domestic supply (MUN) in a Regional Water Board Basin Plan.

Standard Deviation (o)

Standard Deviation is a measure of variability that is calculated as follows:

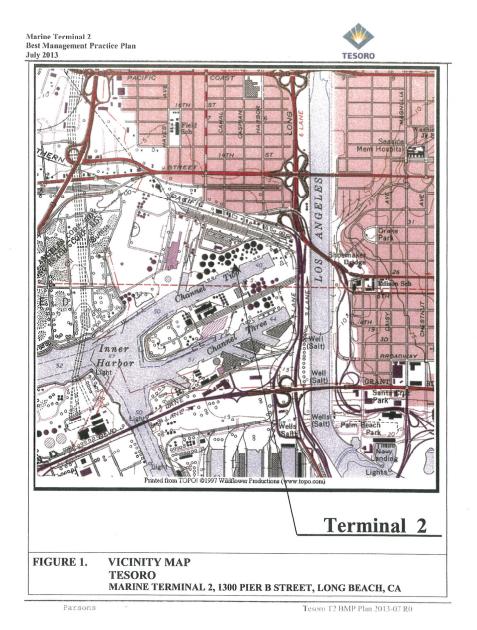
$$\sigma = (\sum [(x - \mu)^2]/(n - 1))^{0.5}$$
 where:

- x is the observed value:
- μ is the arithmetic mean of the observed values; and
- n is the number of samples.

Toxicity Reduction Evaluation (TRE)

TRE is a study conducted in a step-wise process designed to identify the causative agents of effluent or ambient toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in toxicity. The first steps of the TRE consist of the collection of data relevant to the toxicity, including additional toxicity testing, and an evaluation of facility operations and maintenance practices, and best management practices. A Toxicity Identification Evaluation (TIE) may be required as part of the TRE, if appropriate. (A TIE is a set of procedures to identify the specific chemical(s) responsible for toxicity. These procedures are performed in three phases (characterization, identification, and confirmation) using aquatic organism toxicity tests.)

ATTACHMENT B - MAP



ATTACHMENT B – MAP

ATTACHMENT C - FLOW SCHEMATIC

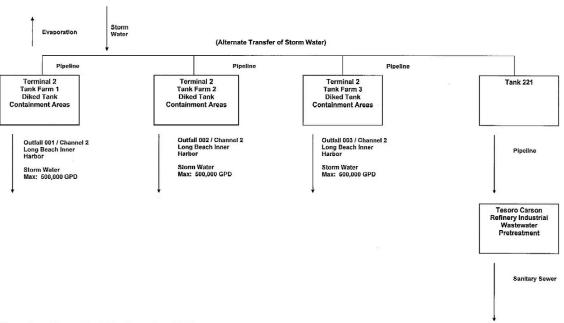


Figure 2 Tesoro Logistics Operations LLC
Schematic of Storm Water Flow
Long Beach Marine Terminal 2, 1300 Pier "B" Street
Long Beach, CA

ATTACHMENT D - STANDARD PROVISIONS

I. STANDARD PROVISIONS - PERMIT COMPLIANCE

A. Duty to Comply

- The Discharger must comply with all of the terms, requirements, and conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; denial of a permit renewal application; or a combination thereof. (40 C.F.R. § 122.41(a); Wat. Code, §§ 13261, 13263, 13265, 13268, 13000, 13001, 13304, 13350, 13385.)
- 2. The Discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement. (40 C.F.R. § 122.41(a)(1).)

B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order. (40 C.F.R. § 122.41(c).)

C. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment. (40 C.F.R. § 122.41(d).)

D. Proper Operation and Maintenance

The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order. (40 C.F.R. § 122.41(e).)

E. Property Rights

- 1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 C.F.R. § 122.41(g).)
- The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations. (40 C.F.R. § 122.5(c).)

F. Inspection and Entry

The Discharger shall allow the Regional Water Board, State Water Board, U.S. EPA, and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to (33 U.S.C. § 1318(a)(4)(B); 40 C.F.R. § 122.41(i); Wat. Code, §§ 13267, 13383):

- Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(B)(i); 40 C.F.R. § 122.41(i)(1); Wat. Code, §§ 13267, 13383);
- Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(B)(ii); 40 C.F.R. § 122.41(i)(2); Wat. Code, §§ 13267, 13383);
- Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order (33 U.S.C. § 1318(a)(4)(B)(ii); 40 C.F.R. § 122.41(i)(3); Wat. Code, §§ 13267, 13383); and
- Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location. (33 U.S.C. § 1318(a)(4)(B); 40 C.F.R. § 122.41(i)(4); Wat. Code, §§ 13267, 13383.)

G. Bypass

- 1. Definitions
 - a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 C.F.R. § 122.41(m)(1)(i).)
 - b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 C.F.R. § 122.41(m)(1)(ii).)
- 2. Bypass not exceeding limitations. The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions Permit Compliance I.G.3, I.G.4, and I.G.5 below. (40 C.F.R. § 122.41(m)(2).)
- 3. Prohibition of bypass. Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless (40 C.F.R. § 122.41(m)(4)(i)):
 - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 C.F.R. § 122.41(m)(4)(i)(A));
 - b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance (40 C.F.R. § 122.41(m)(4)(i)(B)); and
 - c. The Discharger submitted notice to the Regional Water Board as required under Standard Provisions Permit Compliance I.G.5 below. (40 C.F.R. § 122.41(m)(4)(i)(C).)
- 4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance I.G.3 above. (40 C.F.R. § 122.41(m)(4)(ii).)

5. Notice

- a. Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit a notice, if possible at least 10 days before the date of the bypass. (40 C.F.R. § 122.41(m)(3)(i).)
- b. Unanticipated bypass. The Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions Reporting V.E below (24-hour notice). (40 C.F.R. § 122.41(m)(3)(ii).)

H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the Discharger. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. (40 C.F.R. § 122.41(n)(1).)

- Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Standard Provisions – Permit Compliance I.H.2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. (40 C.F.R. § 122.41(n)(2).)
- Conditions necessary for a demonstration of upset. A Discharger who wishes to establish
 the affirmative defense of upset shall demonstrate, through properly signed,
 contemporaneous operating logs or other relevant evidence that (40 C.F.R. §
 122.41(n)(3)):
 - a. An upset occurred and that the Discharger can identify the cause(s) of the upset (40 C.F.R. § 122.41(n)(3)(i));
 - The permitted facility was, at the time, being properly operated (40 C.F.R. § 122.41(n)(3)(ii));
 - c. The Discharger submitted notice of the upset as required in Standard Provisions Reporting V.E.2.b below (24-hour notice) (40 C.F.R. § 122.41(n)(3)(iii)); and
 - The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance I.C above. (40 C.F.R. § 122.41(n)(3)(iv).)
- 3. Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof. (40 C.F.R. § 122.41(n)(4).)

II. STANDARD PROVISIONS - PERMIT ACTION

A. General

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. (40 C.F.R. § 122.41(f).)

B. Duty to Reapply

If the Discharger wishes to continue an activity regulated by this Order after the expiration date of this Order, the Discharger must apply for and obtain a new permit. (40 C.F.R. § 122.41(b).)

C. Transfers

This Order is not transferable to any person except after notice to the Regional Water Board. The Regional Water Board may require modification or revocation and reissuance of the Order to change the name of the Discharger and incorporate such other requirements as may be necessary under the CWA and the Water Code. (40 C.F.R. §§ 122.41(I)(3), 122.61.)

III. STANDARD PROVISIONS - MONITORING

- A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 C.F.R. § 122.41(j)(1).)
- B. Monitoring results must be conducted according to test procedures approved under 40 C.F.R. part 136 for the analyses of pollutants unless another method is required under 40 C.F.R. subchapters N or O. In the case of pollutants for which there are no approved methods under 40 C.F.R. part 136 or otherwise required under 40 C.F.R. subchapters N or O, monitoring must be conducted according to a test procedure specified in this Order for such pollutants. (40 C.F.R. §§ 122.41(j)(4), 122.44(j)(1)(iv).)

IV. STANDARD PROVISIONS - RECORDS

- A. Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 C.F.R. part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer at any time. (40 C.F.R. § 122.41(j)(2).)
- **B.** Records of monitoring information shall include:
 - The date, exact place, and time of sampling or measurements (40 C.F.R. § 122.41(j)(3)(j));
 - The individual(s) who performed the sampling or measurements (40 C.F.R. § 122.41(j)(3)(ii));
 - The date(s) analyses were performed (40 C.F.R. § 122.41(j)(3)(iii));
 - 4. The individual(s) who performed the analyses (40 C.F.R. § 122.41(j)(3)(iv));
 - 5. The analytical techniques or methods used (40 C.F.R. § 122.41(j)(3)(v)); and
 - The results of such analyses. (40 C.F.R. § 122.41(j)(3)(vi).)

- C. Claims of confidentiality for the following information will be denied (40 C.F.R. § 122.7(b)):
 - The name and address of any permit applicant or Discharger (40 C.F.R. § 122.7(b)(1));
 and
 - . Permit applications and attachments, permits and effluent data. (40 C.F.R. § 122.7(b)(2).)

V. STANDARD PROVISIONS - REPORTING

A. Duty to Provide Information

The Discharger shall furnish to the Regional Water Board, State Water Board, or U.S. EPA within a reasonable time, any information which the Regional Water Board, State Water Board, or U.S. EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Discharger shall also furnish to the Regional Water Board, State Water Board, or U.S. EPA copies of records required to be kept by this Order. (40 C.F.R. § 122.41(h); Wat. Code, §§ 13267, 13383.)

B. Signatory and Certification Requirements

- All applications, reports, or information submitted to the Regional Water Board, State Water Board, and/or U.S. EPA shall be signed and certified in accordance with Standard Provisions – Reporting V.B.2, V.B.3, V.B.4, and V.B.5 below. (40 C.F.R. § 122.41(k).)
- 2. All permit applications shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. (40 C.F.R. § 122.22(a)(1).)
- 3. All reports required by this Order and other information requested by the Regional Water Board, State Water Board, or U.S. EPA shall be signed by a person described in Standard Provisions – Reporting V.B.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Standard Provisions Reporting V.B.2 above (40 C.F.R. § 122.22(b)(1));
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) (40 C.F.R. § 122.22(b)(2)); and
 - The written authorization is submitted to the Regional Water Board and State Water Board. (40 C.F.R. § 122.22(b)(3).)

- 4. If an authorization under Standard Provisions Reporting V.B.3 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Standard Provisions Reporting V.B.3 above must be submitted to the Regional Water Board and State Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative. (40 C.F.R. § 122.22(c).)
- 5. Any person signing a document under Standard Provisions Reporting V.B.2 or V.B.3 above shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." (40 C.F.R. § 122.22(d).)

C. Monitoring Reports

- 1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order. (40 C.F.R. § 122.41(I)(4).)
- 2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or State Water Board for reporting results of monitoring of sludge use or disposal practices. (40 C.F.R. § 122.41(I)(4)(i).)
- 3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 C.F.R. part 136, or another method required for an industry-specific waste stream under 40 C.F.R. subchapters N or O, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board. (40 C.F.R. § 122.41(I)(4)(ii).)
- 4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order. (40 C.F.R. § 122.41(I)(4)(iii).)

D. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order, shall be submitted no later than 14 days following each schedule date. (40 C.F.R. \S 122.41(I)(5).)

E. Twenty-Four Hour Reporting

1. The Discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. (40 C.F.R. § 122.41(I)(6)(i).)

- 2. The following shall be included as information that must be reported within 24 hours under this paragraph (40 C.F.R. § 122.41(I)(6)(ii)):
 - a. Any unanticipated bypass that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(I)(6)(ii)(A).)
 - b. Any upset that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(I)(6)(ii)(B).)
- The Regional Water Board may waive the above-required written report under this
 provision on a case-by-case basis if an oral report has been received within 24 hours. (40
 C.F.R. § 122.41(I)(6)(iii).)

F. Planned Changes

The Discharger shall give notice to the Regional Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when (40 C.F.R. § 122.41(I)(1)):

- The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in section 122.29(b) (40 C.F.R. § 122.41(I)(1)(i)); or
- 2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this Order. (40 C.F.R. § 122.41(I)(1)(ii).)
- 3. The alteration or addition results in a significant change in the Discharger's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 C.F.R.§ 122.41(I)(1)(iii).)

G. Anticipated Noncompliance

The Discharger shall give advance notice to the Regional Water Board or State Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with this Order's requirements. (40 C.F.R. § 122.41(I)(2).)

H. Other Noncompliance

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting V.C, V.D, and V.E above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E above. (40 C.F.R. § 122.41(I)(7).)

I. Other Information

When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board, State Water Board, or U.S. EPA, the Discharger shall promptly submit such facts or information. (40 C.F.R. § 122.41(I)(8).)

VI. STANDARD PROVISIONS - ENFORCEMENT

A. The Regional Water Board is authorized to enforce the terms of this permit under several provisions of the Water Code, including, but not limited to, sections 13268, 13385, 13386, and 13387.

VII. ADDITIONAL PROVISIONS - NOTIFICATION LEVELS

A. Non-Municipal Facilities

Existing manufacturing, commercial, mining, and silvicultural Dischargers shall notify the Regional Water Board as soon as they know or have reason to believe (40 C.F.R. § 122.42(a)):

- 1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" (40 C.F.R. § 122.42(a)(1)):
 - a. 100 micrograms per liter (µg/L) (40 C.F.R. § 122.42(a)(1)(i));
 - b. 200 μg/L for acrolein and acrylonitrile; 500 μg/L for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(1)(ii));
 - c. Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(1)(iii)); or
 - d. The level established by the Regional Water Board in accordance with section 122.44(f). (40 C.F.R. § 122.42(a)(1)(iv).)
- 2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" (40 C.F.R. § 122.42(a)(2)):
 - a. 500 micrograms per liter (µg/L) (40 C.F.R. § 122.42(a)(2)(i));
 - b. 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(2)(ii));
 - c. Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(2)(iii)); or
 - d. The level established by the Regional Water Board in accordance with section 122.44(f). (40 C.F.R. § 122.42(a)(2)(iv).)

ATTACHMENT E - MONITORING AND REPORTING PROGRAM (MRP NO. 6802)

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ATTACHMENT E - MONITORING AND REPORTING PROGRAM (MRP No. 6802)

Section 308 of the federal Clean Water Act (CWA) and sections 122.41(h), (j)-(l), 122.44(i), and 122.48 of title 40 of the Code of Federal Regulations (40 C.F.R.) require that all NPDES permits specify monitoring and reporting requirements. Water Code sections 13267 and 13383 also authorize the Regional Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement the federal and California laws and/or regulations.

I. GENERAL MONITORING PROVISIONS

- **A.** An effluent sampling station shall be established for Discharge Points 001, 002, and 003 and shall be located where representative samples of that effluent can be obtained.
- B. Effluent samples shall be taken prior to mixing with the receiving waters.
- C. The Regional Water Board shall be notified in writing of any change in the sampling stations once established or in the methods for determining the quantities of pollutants in the individual waste streams.
- D. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. sections 136.3, 136.4, and 136.5 (revised August 19, 2012); or, where no methods are specified for a given pollutant, by methods approved by this Regional Water Board or the State Water Board.
 - Laboratories analyzing effluent samples and receiving water samples shall be certified by the State Water Board, Drinking Water Division, Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided each time a new certification and/or renewal of the certification is obtained from ELAP.
- **E.** For any analyses performed for which no procedure is specified in the U.S. EPA guidelines or in the MRP, the constituent or parameter analyzed and the method or procedure used must be specified in the monitoring report.
- **F.** Each monitoring report must affirm in writing that "all analyses were conducted at a laboratory certified for such analyses by the State Water Board or approved by the Executive Officer and in accordance with current U.S. EPA guideline procedures or as specified in this MRP".
- G. The monitoring reports shall specify the analytical method used, the Method Detection Limit (MDL), and the Minimum Level (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:
 - 1. An actual numerical value for sample results greater than or equal to the ML; or
 - "Detected, but Not Quantified (DNQ)" if results are greater than or equal to the laboratory's MDL but less than the ML; or,
 - "Not-Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

Analytical data reported as "less than" for the purpose of reporting compliance with permit limitations shall be the same or lower than the permit limit(s) established for the given parameter.

Current MLs (Attachment H) are those published by the State Water Board in the Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, February 24, 2005.

- **H.** Water/wastewater samples must be analyzed using USEPA-approved "sufficiently sensitive" test methods approved under 40 C.F.R. part 136 for the analysis of pollutants or pollutant parameters or required under 40 C.F.R. chapter I, subchapter N or O. As specified in 40 C.F.R. section 122.44(i)(1)(iv), a test method is defined as "sufficiently sensitive" where:
 - 1. The method ML is at or below the level of the applicable water quality criterion or permit limitation for the measured pollutant or pollutant parameter; or
 - 2. The method has the lowest ML of the analytical methods approved under 40 C.F.R. part 136 or required under 40 C.F.R. chapter I, subchapter N or O for the measured pollutant or pollutant parameter.
- Where no USEPA-approved method exists, the Regional Water Board, in consultation with the State Water Board Quality Assurance Program, shall establish a ML that is not contained in Attachment H to be included in the Discharger's permit in any of the following situations:
 - 1. When the pollutant under consideration is not included in Attachment H;
 - 2. When the Discharger and Regional Water Board agree to include in the permit a test method that is more sensitive than that specified in Part 136 (revised May 18, 2012);
 - When the Discharger agrees to use an ML that is lower than that listed in Attachment H;
 - 4. When the Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Attachment H, and proposes an appropriate ML for their matrix; or,
 - 5. When the Discharger uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the U.S. EPA-approved method 1613 for dioxins and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Discharger, the Regional Water Board, and the State Water Board shall agree on a lowest quantifiable limit and that limit will substitute for the ML for reporting and compliance determination purposes.
- J. Water/wastewater samples must be analyzed within allowable holding time limits as specified in section 136.3. All QA/QC items must be run on the same dates the samples were actually analyzed, and the results shall be reported in the Regional Water Board format, when it becomes available, and submitted with the laboratory reports. Proper chain of custody procedures must be followed, and a copy of the chain of custody shall be submitted with the report.
- K. All analyses shall be accompanied by the chain of custody, including but not limited to date and time of sampling, sample identification, and name of person who performed sampling, date of analysis, name of person who performed analysis, QA/QC data, method detection limits, analytical methods, copy of laboratory certification, and a perjury statement executed by the person responsible for the laboratory.
- L. The Discharger shall calibrate and perform maintenance procedures on all monitoring instruments to insure accuracy of measurements, or shall insure that both equipment activities will be conducted.
- M. Field analyses with short sample holding times such as pH, total residual chlorine, and temperature, may be performed using properly calibrated and maintained portable instruments by trained personnel acting on the Discharger's behalf, using methods in accordance with 40 C.F.R. part 136. All field instruments must be calibrated per manufacturer's instructions. A manual containing the standard operating procedures for all field analyses, including records of personnel proficiency training, instruments calibration and maintenance, and quality control

procedures shall be maintained onsite, and shall be available for inspection by Regional Water Board staff. Information including instrument calibration, time of sample collection, time of analysis, name of analyst, quality assurance/quality control data, and measurement values shall be clearly documented during each field analysis and submitted to the Regional Water Board as part of the corresponding regular monitoring report.

- N. The Discharger shall have, and implement, an acceptable written quality assurance (QA) plan for laboratory analyses. Unless otherwise specified in the analytical method, duplicate samples must be analyzed at a frequency of 5% (1 in 20 samples) with at least one if there is fewer than 20 samples in a batch. A batch is defined as a single analytical run encompassing no more than 24 hours from start to finish. A similar frequency shall be maintained for analyzing spiked samples.
- O. When requested by the Regional Water Board or U.S. EPA, the Discharger will participate in the NPDES discharge monitoring report QA performance study. The Discharger must have a success rate equal to or greater than 80%.
- P. For parameters that both average monthly and daily maximum limits are specified and the monitoring frequency is less than four times a month, the following shall apply. If an analytical result is greater than the average monthly limit, the Discharger shall collect four additional samples at approximately equal intervals during the month, until compliance with the average monthly limit has been demonstrated. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, whichever is later. In the event of noncompliance with an average monthly effluent limitation, the sampling frequency for that constituent shall be increased to weekly and shall continue at this level until compliance with the average monthly effluent limitation has been demonstrated. The Discharger shall provide for the approval of the Executive Officer a program to ensure future compliance with the average monthly limit.
- Q. In the event wastes are transported to a different disposal site during the reporting period, the following shall be reported in the monitoring report:
 - Types of wastes and quantity of each type;
 - Name and address for each hauler of wastes (or method of transport if other than by hauling); and
 - 3. Location of the final point(s) of disposal for each type of waste.

If no wastes are transported off-site during the reporting period, a statement to that effect shall be submitted.

R. Each monitoring report shall state whether or not there was any change in the discharge as described in the Order during the reporting period.

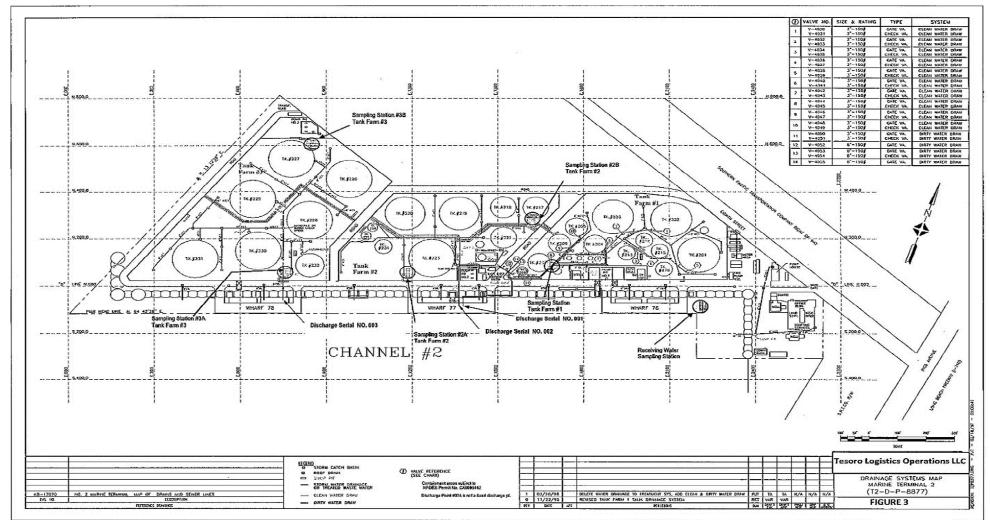
II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

Table E-1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
Effluent Monitorin	ng	
001	EFF-001	Effluent shall be collected from sampling station no. 1 within Tank Farm No. 1 as indicated in the Monitoring Location Map. (Latitude 33.776444° N, Longitude -118.212444° W)

Discharge Point Name	Monitoring Location Name	Monitoring Location Description	
002	EFF-002	Effluent shall comprise of a composite sample collected from sampling station nos. 2a (Latitude 33.775944° N, Longitude -118.213694° W) and 2b (Latitude 33.777056° N, Longitude -118.212806° W) within Tank Farm No. 2 as indicated in the Monitoring Location Map.	
003	EFF-003	Effluent shall comprise of a composite sample collected from sampling station nos. 3a (Latitude 33.775556º N, Longitude -118.214972º W) and 3b (Latitude 33.776944º N, Longitude -118.215417º W) within Tank Farm No. 3 as indicated in the Monitoring Location Map.	
Receiving Water Monitoring			
	RSW-001	50 feet upstream of Berth 76 at Channel No. 2, Long Beach Inner Harbor (Latitude 33.776861° N, Longitude -118.210472° W).	



III. INFLUENT MONITORING REQUIREMENTS

Not Applicable

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Locations EFF-001, EFF-002, and EFF-003

1. The Discharger shall monitor storm water discharges from Discharge Point Nos. 001, 002, and 003 at Monitoring Locations EFF-001, EFF-002, and EFF-003, respectively, as follows. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding minimum level.

Table E-2. Effluent Monitoring at Monitoring Locations EFF-001, EFF-002, and EFF-003

Parameter	Units	Sample Type	Minimum Sampling	Required Analytical Test Method
Total Flow ¹	Gallons	Estimate	Frequency 1/Discharge Event ²	
Daily Average Flow ¹	MGD	Estimate	1/Discharge Event ²	
Ammonia Nitrogen, Total (as N)	mg/L	Grab	1/Discharge Event ²	3
Total Coliform⁴	MPN/100 mL	Grab	1/Discharge Event ²	3
Enterococcus ⁴	MPN/100 mL	Grab	1/Discharge Event ²	3
Turbidity	NTU	Grab	1/Discharge Event ²	3
Settleable Solids	ml/L	Grab	1/Discharge Event ²	3
Biochemical Oxygen Demand (BOD) (5-day @ 20℃)	mg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Total Suspended Solids (TSS)	mg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Oil and Grease	mg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Total Phenols	mg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3,6
Sulfides, Total (as S)	mg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Benzene	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Ethylbenzene	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Toluene	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Xylene	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Total Petroleum Hydrocarbons (TPH) as Gasoline (C ₄ -C ₁₂)	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	EPA Method 503.1, 8015B, or 8270 ⁷
TPH as Diesel (C ₁₃ -C ₂₂)	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	EPA Method 503.1 or 8015B ⁷
TPH as Waste Oil (C ₂₃₊₎	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	EPA Method 503.1, 8015B, or 8270 ⁷
рН	standard units	Grab	1/Discharge Event ²	3
Temperature	°F	Grab	1/Discharge Event ²	3
Chronic Toxicity	Pass or Fail, % Effect (TST)	Grab	1/Discharge Event ²	3,8
Arsenic, Total Recoverable	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Cadmium, Total	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Recoverable				
Chromium VI, Total Recoverable	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Copper, Total Recoverable	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Lead, Total Recoverable	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Mercury, Total Recoverable	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Selenium, Total Recoverable	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Benso(a)pyrene	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Chrysene	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Silver, Total Recoverable	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Zinc, Total Recoverable	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
TCDD Equivalents 12	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
4,4'-DDT	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Total PCBs (as Aroclors)9	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
PCBs (as 41 individual congeners) 10	μg/L, lbs/day ⁵	Grab	1/Discharge Event ²	3
Remaining Priority Pollutants ¹¹	μg/L	Grab	1/Year	3

Total waste flow will indicate the volume of water (in gallons) discharged with each batch discharge event. The Discharger shall also calculate the daily average flow for each discharge event by dividing the total discharge flow by the number of days over which the discharge occurred; this shall represent the daily average flow (MGD). Periods of no flow shall also be reported.

- During periods of extended discharge, no more than one sample per week (or 7-day period) needs to be taken. Sampling shall be performed during the first hour of discharge. If, for safety reasons, a sample cannot be obtained during the first hour of discharge, a sample shall be obtained at the first safe opportunity, and the reason for the delay shall be included in the report. If there is no discharge to surface waters, then no monitoring is required. In the corresponding monitoring report, the Discharger will indicate under statement of perjury that no effluent was discharged to surface water.
- Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136; for priority pollutants, the methods must meet the lowest MLs specified in Attachment 4 of the SIP, provided in Attachment H. Where no methods are specified for a given pollutant, the methods must be approved by this Regional Water Board or the State Water Board. If more than one analytical test method is listed for a given parameter, the Discharger must select from the listed methods and corresponding ML necessary to demonstrate compliance with applicable effluent limitations.
- Detection methods used for total coliforms and Enterococcus shall be those presented in Table 1A of 40 C.F.R. Part 136, unless alternate methods have been approved by U.S.EPA pursuant to Part 136 or improved methods have been determined by the Executive Officer and/or U.S.EPA.
- ⁵ The mass emission (lbs/day) for the discharge shall be calculated and reported using the limitation concentration and the actual flow rate measured at the time of discharge, using the formula:

M = 8.34 x Ce x Q

where: M = mass discharge for a pollutant, lbs/day

Ce = Reported concentration for a pollutant in mg/L

Q = actual discharge flow rate.

- Total phenols measured by EPA Method 420.1 or 420.2 (using the 4AAP method).
- ⁷ TPH measured by U.S. EPA Methods EPA Method 503.1 or 8015B for both the gas and diesel ranges.
- The Permittee shall conduct Whole Effluent Toxicity monitoring as outlined in section V. Please refer to section V.A.7 of this MRP for the accelerated monitoring schedule. The median monthly summary result shall be reported as "Pass" or "Fail". The maximum daily single result shall be reported as "Pass or Fail" and "%

Effect". When there is discharge more than one day in a calendar month period, exactly three independent toxicity tests are required when one toxicity test results in "Fail".

The results of PCB analyses using U.S. EPA Method 608 shall be reported in Discharge Monitoring Reports and used for assessing compliance with effluent limitations. Using U.S. EPA Method 608, total PCBs shall mean the sum of chlorinated biphenyls whose analytical characteristics resemble those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260.

In addition to monitoring total PCBs as Aroclors, PCBs shall be analyzed using U.S. EPA proposed Method 1668c and individually quantified and reported. Using proposed Method 1668c, PCBs (as 41 individual congeners) means the sum of 41 congeners: PCB-18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105,110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, and 206. Until the proposed method 1668c for PCBs is incorporated into 40 CFR part 136, the results of PCB analyses using proposed Method 1668c shall be used for informational purposes for the Harbor Toxics TMDL and shall not be used to assess compliance with effluent limitations.

Priority Pollutants as defined by the CTR defined in Attachment I of this Order. Annual samples shall be collected during the first hour of discharge from the first storm event of the wet season (October 1 – May 30). If no discharge occurs, no monitoring is required.

TCDD Equivalents shall be calculated using the following formula, where the Minimum Levels (ML), and toxicity equivalency factors (TEFs) are as listed in the table below. The Discharger shall report all measured values of individual congeners, including data qualifiers. When calculating TCDD equivalents, the Discharger shall set congener concentrations below the minimum levels to zero. USEPA method 1613 may be used to analyze dioxin and furan congeners.

Dioxin TEQ (TCDD equivalents) = $\sum (C_x \times TEF_x)$ Where: C_x = concentration of dioxin or furan congener x TEF_x = TEF for congener x

Toxicity Equivalency Factors

Congeners	Minimum Level (pg/L)	Toxicity Equivalency Factor (TEF)
2,3,7,8 - tetra CDD	10	1.0
1,2,3,7,8 - penta CDD	50	1.0
1,2,3,4,7,8 - hexa CDD	50	0.1
1,2,3,6,7,8 - hexa CDD	50	0.1
1,2,3,7,8,9 - hexa CDD	50	0.1
1,2,3,4,6,7,8 - hepta CDD	50	0.01
Octa CDD	100	0.0001
2,3,7,8 - tetra CDF	10	0.1
1,2,3,7,8 - penta CDF	50	0.05
2,3,4,7,8 - penta CDF	50	0.5
1,2,3,4,7,8 - hexa CDF	50	0.1
1,2,3,6,7,8 - hexa CDF	50	0.1
1,2,3,7,8,9 - hexa CDF	50	0.1
2,3,4,6,7,8 - hexa CDF	50	0.1
1,2,3,4,6,7,8 - hepta CDFs	50	0.01
1,2,3,4,7,8,9 - hepta CDFs	50	0.01
Octa CDF	100	0.0001

2. Effluent Sediment Monitoring at Monitoring Locations EFF-001, EFF-002, and EFF-003

Effluent sediment monitoring is only required during years in which any exceedance occurs as described in Footnote 1 to the following table (Table E-3). If effluent sediment monitoring is not triggered by an exceedance, effluent sediment monitoring must be conducted as described here at least **once during the permit term**, if a discharge from the Facility occurs.

The Discharger must sample the discharge at the discharge points following final treatment, prior to the discharge entering the receiving water. The Discharger must collect sufficient effluent sample to provide an adequate amount of effluent sediments (suspended solids) for sediment analyses.

Table E-3. Effluent Sediment Monitoring at Monitoring Locations EFF-001, EFF-002, and EFF-003

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Copper, Total Recoverable	mg/kg	Grab	1/Year ¹	2
Lead, Total Recoverable	mg/kg	Grab	1/Year ¹	2
Zinc, Total Recoverable	mg/kg	Grab	1/Year ¹	2
4,4'-DDT ³	mg/kg	Grab	1/Year ¹	2
PAHs ⁴	mg/kg	Grab	1/Year ¹	2
Total PCBs ⁵	mg/kg	Grab	1/Year ¹	2

During each reporting period, if effluent monitoring results exceed both a TSS effluent limit and a CTR TMDL-based effluent limitation or performance goal for copper, lead, zinc, 4,4-DDT, total PCBs, or PAHs (i.e., benzo(a)pyrene and chrysene) as specified in Table 4 of this Order, then the Discharger has not demonstrated compliance with the interim sediment allocations (Monitoring Thresholds, Table 5, page 11, of this Order) specified by the Harbor Toxics TMDL, Resolution No. R11-008 (page 11, Item 3). Therefore, the Discharger is required to implement the effluent sediment monitoring program for that priority pollutant. The Discharger shall begin the effluent sediment monitoring program during the first discharge event following the effluent exceedance. An effluent sediment monitoring result at or below the interim sediment allocations (Monitoring Thresholds) in Table 5, page 11 of this Order, demonstrates compliance with the interim sediment allocation and additional effluent sediment monitoring for those pollutants is not required. An effluent sediment monitoring result that exceeds the interim sediment allocation requires additional effluent sediment monitoring during discharge but not more frequently than once per year until the three-year average concentration for effluent sediment monitoring results is at or below the interim sediment allocation. If monitoring is not triggered because of an exceedance, sediment monitoring must be conducted as described here at least once during the permit term.

Pollutants shall be analyzed in accordance with USEPA or ASTM methodologies where such methods exist. Where no USEPA or ASTM methods exist, the State Water Board or Regional Water Board shall approve the use of other methods. Analytical tests shall be conducted by laboratories certified by the California Department of Public Health in accordance with Water Code section 13176.

The State Water Board Water Quality Control Plan for Enclosed Bays and Estuaries – Part 1 Sediment Quality, August 25, 2009, (known as Sediment Quality Plan, Attachment A) listed chemical analytes needed to characterize sediment contamination exposure and effect. According to Sediment Quality Plan, DDTs shall mean the sum of 4,4'DDT, 2,4'DDT, 4.4'DDE, 2.4'DDD and 2.4'DDD.

According to Sediment Quality Plan, total PAHs (polynuclear aromatic hydrocarbons) shall mean the sum of acenaphthene, anthracene, biphenyl, naphthalene, 2,6-dimethylnaphthalene, 1-methylnaphthalene, 2-methylnaphthalene, 1-methylphenanthrene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, benzo(e)pyrene, chrysene, dibenz(a,h)anthracene, fluoranthene, perylene, and pyrene

According to Sediment Quality Plan, total PCBs (polychlorinated biphenyls) shall mean the sum of the following PCB congeners: 2,4'-dichlorobiphenyl, 2,2',5-trichlorobiphenyl, 2,4,4'-trichlorobiphenyl, 2,2',3,5'-tetrachlorobiphenyl, 2,3',4,4'-tetrachlorobiphenyl, 2,2',5,5'-tetrachlorobiphenyl, 2,3',4,4'-tetrachlorobiphenyl, 2,2',3,3',4,4'-pentachlorobiphenyl, 2,2',3,3',4,4'-pentachlorobiphenyl, 2,2',3,3',4,4'-pentachlorobiphenyl, 2,2',3,3',4,4'-pentachlorobiphenyl, 2,2',3,4'-pentachlorobiphenyl, 2,2',3,4'-pentachlorobiphenyl, 2,2',3,3'-pentachlorobiphenyl, 2,2',3,4'-pentachlorobiphenyl, 2,2',3,4'-pentachlorobiphen

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Chronic Toxicity Testing

1. Discharge In-stream Waste Concentration (IWC) for Chronic Toxicity

The chronic toxicity IWC for this discharge at Discharge Points 001, 002, and 003 is 100 percent effluent.

2. Sample Volume and Holding Time

The total sample volume shall be determined by the specific toxicity test method used. Sufficient sample volume shall be collected to perform the required toxicity test and TIE studies. All toxicity tests shall be conducted as soon as possible following sample collection. No more than 36 hours shall elapse before the conclusion of sample collection and test initiation.

3. Chronic Marine and Estuarine Species and Test Methods

If effluent samples are collected from outfalls discharging to receiving waters with salinity ≥1 ppt, the Discharger shall conduct the following chronic toxicity tests on effluent samples—at the in-stream waste concentration for the discharge—in accordance with species and test methods in *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/136, 1995). Artificial sea salts shall be used to increase sample salinity. In no case shall these species be substituted with another test species unless written authorization from the Executive Officer is received.

- a. A static renewal toxicity test with the topsmelt, *Atherinops affinis* (Larval Survival and Growth Test Method 1006.01).
- b. A static non-renewal toxicity test with the purple sea urchin, *Strongylocentrotus* purpuratus, and the sand dollar, *Dendraster excentricus* (Fertilization Test Method 1008.0), or a static non-renewal toxicity test with the red abalone, *Haliotis rufescens* (Larval Shell Development Test Method).
- c. A static non-renewal toxicity test with the giant kelp, *Macrocystis pyrifera* (Germination and Growth Test Method 1009.0).

4. Species Sensitivity Screening

Species Sensitivity screening shall be conducted monthly for a period of three months. Once each month, the Discharger shall collect a single effluent sample and concurrently conduct three toxicity tests using the fish, an invertebrate, and the alga species previously referenced. The species that exhibits the highest "Percent (%) Effect" at the discharge IWC during species sensitivity screening shall be used for routine annual monitoring.

Rescreening is required every 24 months. The Discharger shall rescreen with the three species listed above and continue to monitor with the most sensitive species. If the first suite of rescreening tests demonstrates that the same species is the most sensitive, then the rescreening does not need to include more than one suite of tests. If a different species is the most sensitive, or if there is ambiguity, then the Discharger shall proceed with suites of screening tests for a minimum of three, but not to exceed five suites.

5. Quality Assurance and Additional Requirements

Quality assurance measures, instructions, and other recommendations and requirements are found in the test methods manual previously referenced. Additional requirements are specified below.

a. The discharge is subject to determination of "Pass" or "Fail" and "Percent Effect" from a single-effluent concentration chronic toxicity test at the discharge IWC using the Test of Significant Toxicity (TST) approach described in National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document (EPA 833-R-10-003, 2010), Appendix A, Figure A-1, and Table A-1. The null hypothesis (Ho) for the TST statistical approach is: Mean discharge IWC response ≤0.75 × Mean control response. A test result that rejects this null hypothesis is reported as "Pass". A test result

that does not reject this null hypothesis is reported as "Fail". The relative "Percent Effect" at the discharge IWC is defined and reported as: ((Mean control response ÷ Mean discharge IWC response) ÷ Mean control response)) × 100.

- b. The Median Monthly Effluent Limit (MMEL) for chronic toxicity only applies when there is a discharge more than one day in a calendar month period. During such calendar months, exactly three independent toxicity tests are required when one toxicity test results in "Fail".
- c. If the effluent toxicity test does not meet all test acceptability criteria (TAC) specified in the referenced test method, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms (EPA/600/R-95/136, 1995) (see Table E.11, below), then the Permittee must re-sample and re-test within 14 days.
- d. Dilution water and control water, including brine controls, shall be laboratory water prepared and used as specified in the test methods manual. If dilution water and control water is different from test organism culture water, then a second control using culture water shall also be used.
- Reference toxicant tests and effluent toxicity tests shall be conducted using the same test conditions (e.g., same test duration, etc.). Monthly reference toxicant testing is sufficient.
 - All reference toxicant tests results should be reviewed and reported according to EPA guidance on the evaluation of concentration-response relationships found in *Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing* (40 C.F.R. section 136) (EPA 821-B-00-004, 2000).
- f. The Discharger shall perform toxicity tests on final effluent samples. Chlorine and ammonia shall not be removed from the effluent sample prior to toxicity testing, unless explicitly authorized under this section of the Monitoring and Reporting Program and the rationale is explained in the Fact Sheet (Attachment F).

6. Preparation of Initial Investigation TRE Work Plan

The Discharger shall prepare or update and submit a generic Initial Investigation TRE Work Plan (1-2 pages) within 90 days of the permit effective date, to be ready to respond to toxicity events. The Discharger shall use the USEPA manual *Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations* (EPA/600/2-88/070, 1989) or most current version, as guidance. The Discharger shall review and update this work plan as necessary so it remains current and applicable to the discharge. At minimum, the work plan shall include:

- A description of the investigation and evaluation techniques that would be used to identify potential causes and sources of toxicity, effluent variability, and treatment system efficiency.
- b. A description of methods for maximizing in-house treatment system efficiency, good housekeeping practices, and a list of all chemicals used in operations at the facility.
- c. If a Toxicity Identification Evaluation (TIE) is necessary, an indication of who would conduct the TIEs (i.e., an in-house expert or outside contractor).

7. Toxicity Identification Evaluation and Toxicity Reduction Evaluation Process

a. Toxicity Identification Evaluation (TIE). A toxicity test sample is immediately subject to TIE procedures to identify the toxic chemical(s), if a chronic toxicity test shows "Fail and % Effect value ≥50". The Discharger shall initiate a TIE using, as

guidance, EPA manuals: Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures (EPAI600/6-911003, 1991); Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA/6001R-921080, 1993); Methods for Aquatic Toxicity Identification Evaluations, Phase 111 Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity (EPA16001R-921081, 1993); and Marine Toxicity Identification Evaluation (TIE): Phase 1 Guidance Document (EPA16001R-96-054, 1996). The TIE should be conducted on the species demonstrating the most sensitive toxicity response.

- b. **Toxicity Reduction Evaluation (TRE).** When a toxicant or class of toxicants is identified, a TRE shall be performed for that toxicant. The TRE shall include all reasonable steps to identify the source(s) of toxicity and discuss appropriate BMPs to eliminate the causes of toxicity. No later than 30 days after the source of toxicity and appropriate BMPs and/or treatment are identified, the Discharger shall submit a TRE Corrective Action Plan to the Executive Officer for approval. At minimum, the plan shall include:
 - i. The potential sources of pollutant(s) causing toxicity.
 - ii. Recommended BMPs and/or treatment to reduce the pollutant(s) causing toxicity.
 - iii. Follow-up monitoring to demonstrate that toxicity has been removed.
 - iv. Actions the Discharger will take to mitigate the effects of the discharge and prevent the recurrence of toxicity.
 - v. A schedule for these actions, progress reports, and the final report.
- c. Many recommended TRE elements parallel required or recommended efforts for source control, pollution prevention, and storm water control programs. TRE efforts should be coordinated with such efforts. As toxic substances are identified or characterized, the Discharger shall continue the TRE by determining the sources and evaluating alternative strategies for reducing or eliminating the substances from the discharge. All reasonable steps shall be taken to reduce toxicity to levels consistent with toxicity evaluation parameters.
- d. The Discharger shall conduct routine effluent monitoring for the duration of the TIE/TRE process.
- e. The Regional Water Board recognizes that toxicity may be episodic and identification of causes and reduction of sources of toxicity may not be successful in all cases. The TRE may be ended at any stage if monitoring finds there is no longer toxicity.

8. Reporting

The Self Monitoring Report (SMR) shall include a full laboratory report for each toxicity test. This report shall be prepared using the format and content of the test methods manual chapter called Report Preparation, including:

- a. The toxicity test results for the TST statistical approach, reported as "Pass" or "Fail" and "Percent Effect" at the chronic toxicity IWC for the discharge.
- b. Water quality measurements for each toxicity test (e.g., pH, dissolved oxygen, temperature, conductivity, hardness, salinity, chlorine, ammonia).

- c. TRE/TIE results. The Executive Officer shall be notified no later than 30 days from completion of each aspect of TRE/TIE analyses.
- d. Statistical program (e.g., TST calculator, CETIS, etc.) output results for each toxicity test.

VI. LAND DISCHARGE MONITORING REQUIREMENTS

Not Applicable

VII. RECYCLING MONITORING REQUIREMENTS

Not Applicable

VIII. RECEIVING WATER MONITORING REQUIREMENTS

A. Surface Water Monitoring (Monitoring Location RSW-001)

 The Discharger shall monitor the receiving water at Monitoring Location RSW-001 as follows:

Table E-4. Receiving Water Monitoring Requirements ³

	-			
Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Ammonia, Total as N	mg/L	Grab	1/Year	1,2
Total Suspended Solids	mg/L	Grab	1/Year	1
Turbidity	NTU	Grab	1/Year	1
Dissolved Oxygen	mg/L	Grab	1/Year	1
рН	standard units	Grab	1/Year	1,2
Salinity	mg/L	Grab	1/Year	1,2
Temperature	°F	Grab	1/Year	1,2
Priority pollutants 4	μg/L	Grab	1/Year	1

Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136; for Priority Pollutants the methods must meet the lowest MLs specified in Attachment 4 of the SIP, provided as Attachment H. Where no methods are specified for a given pollutant, the methods must be approved by this Regional Water Board or the State Water Board.

- Receiving water ammonia, pH, temperature, and salinity must be analyzed at the same time the samples are collected for Priority Pollutants analysis. A hand-held field meter may be used for pH and temperature, provided the meter utilizes an EPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions; all testing shall be conducted by a field technician or chemist from an ELAP certified laboratory provided that the personnel receives proper training and follows laboratory SOPs for field sampling and analysis. A calibration and maintenance log for each meter used for monitoring required by this Monitoring and Reporting Program shall be maintained at the Facility.
- Program shall be maintained at the Facility.

 Receiving water monitoring is only required during years of discharge.
- Priority Pollutants as defined by the CTR, and included as Attachment I. Annual receiving water monitoring samples shall be collected during the first hour of discharge from the first storm event of the year at the first safe opportunity after effluent monitoring samples have been collected.

IX. OTHER MONITORING REQUIREMENTS

A. Storm Water Monitoring

 Rainfall Monitoring. The Discharger shall measure and record the rainfall on each day of the month in which the discharge occurred. The Discharger may use the available rainfall data collected from a nearby rain gauge station located at Long Beach Daugherty Airport. This information shall be included in the monitoring report for that month. If no discharge occurred during the month, a rainfall record is not required for that month.

2. **Visual Observation.** The Discharger shall make visual observations of all storm water discharge locations on at least one storm event per month that produces a significant storm water discharge to observe the presence of floating and suspended materials, oil and grease, discoloration, turbidity, and odor. A "significant storm water discharge" is a continuous discharge of storm water for a minimum of one hour, or the intermittent discharge of storm water for a minimum of 3 hours in a 12-hour period.

3. Regional Monitoring

The Discharger may be required to participate in the development of Regional Monitoring Program(s) to address pollutants as specified in the Harbor Toxics TMDL. If the Discharger joins a group of stakeholders to complete this monitoring, the Discharger must provide documentation of participation and a description of applicable responsibilities. The Regional Water Board must also be provided with documentation of the availability of the reports associated with the implementation of the Monitoring Plan.

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

- 1. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
- 2. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
- 3. If there is no discharge during any reporting period, the report shall so state.
- 4. If the Discharger monitors (other than for process/operational control, startup, research, or equipment testing) any influent, effluent, or receiving water constituent more frequently than required by this Order using approved analytical methods, the results of those analyses shall be included in the monitoring report. These results shall be reflected in the calculation of the average (or median) used in demonstrating compliance with this Order/Permit.
- 5. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.
- 6. The Discharger shall inform the Regional Water Board well in advance of any proposed construction activity that could potentially affect compliance with applicable requirements.
- 7. The Discharger shall report the results of chronic toxicity testing, TRE and TIE as required in the Attachment E, Monitoring and Reporting, section V.

B. Self-Monitoring Reports (SMR's)

 The Discharger shall electronically submit SMR's using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (http://www.waterboards.ca.gov/ciwqs/index.html). The CIWQS Web site will provide additional information for SMR submittal in the event there will be a planned service interruption for electronic submittal.

- 2. The Discharger shall report in the SMR the results for all monitoring specified in this MRP under sections III through IX. The Discharger shall submit monthly SMR's including the results of all required monitoring using U.S. EPA-approved test methods or other test methods specified in this Order. SMR's are to include all new monitoring results obtained since the last SMR was submitted. If the Discharger monitors any pollutant more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.
- Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

Table E-3. Monitoring Periods and Reporting Schedule					
Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date		
1/Discharge Event	Permit effective date	January 1 – March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	May 1 August 1 November 1 February 1		
1/Year	January 1 following (or on)	January 1 through December	February 1		

Table E-5. Monitoring Periods and Reporting Schedule

- 4. Reporting Protocols. The Discharger shall report with each sample result the applicable Reporting Level (RL) and the current Method Detection Limit (MDL), as determined by the procedure in 40 C.F.R. part 136.
- 5. The Discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:
 - a. Sample results greater than or equal to the RL shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
 - b. Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.
 - For the purposes of data collection, the laboratory shall write the estimated chemical concentration next to DNQ. The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (± a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory.
 - Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.
 - d. Dischargers are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Discharger to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
- 6. Compliance Determination. Compliance with effluent limitations for priority pollutants shall be determined using sample reporting protocols defined above and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Regional Water Board and State Water Board, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reporting level (RL).

- 7. Multiple Sample Data. When determining compliance with an AMEL for priority pollutants and more than one sample result is available, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
 - a. The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
 - b. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.
- 8. The Discharger shall submit SMR's in accordance with the following requirements:
 - a. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations. The Discharger is not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Discharger shall electronically submit the data in a tabular format as an attachment.
 - b. The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the WDR's; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.

C. Discharge Monitoring Reports (DMR's)

Not Applicable

D. Other Reports

- 1. **Within 90 days** of the effective date of this permit, the Discharger is required to submit the following to the Regional Water Board:
 - a. Initial Investigation TRE workplan
 - b. Updated SWPPP
 - c. Updated BMPP
 - d. Spill Contingency Plan

The SWPPP, BMPP, and Spill Contingency Plan status shall be reviewed at a minimum once per year and updated as needed to ensure all actual or potential sources of pollutants in wastewater and storm water discharged from the facility are addressed. All changes or revisions to the SWPPP, BMPP, and Spill Contingency Plan shall be submitted to the Regional Water Board within 30 days of revisions.

2. According the Harbor Toxics TMDL, the Discharger shall submit annually a monitoring/implementation report to the Regional Water Board. The report shall describe the measures implemented and the progress achieved toward meeting the assigned WLAs. The

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annual report shall be received by the Regional Water Board by the specified date in the proposed Monitoring Plan.

ATTACHMENT F – FACT SHEET

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ATTACHMENT F - FACT SHEET

As described in section II.B of this Order, the Regional Water Board incorporates this Fact Sheet as findings of the Regional Water Board supporting the issuance of this Order. This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order.

This Order has been prepared under a standardized format to accommodate a broad range of discharge requirements for Dischargers in California. Only those sections or subsections of this Order that are specifically identified as "not applicable" have been determined not to apply to this Discharger. Sections or subsections of this Order not specifically identified as "not applicable" are fully applicable to this Discharger.

I. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

Table F-1. Facility Information

WDID	4B192010018
Discharger	Tesoro Logistics Operations, LLC
Name of Facility	Marine Terminal 2
	1300 Pier B Street
Facility Address	Long Beach, CA 90813
	Los Angeles County
Facility Contact, Title and Phone	Donna DiRocco, Senior Environmental Specialist, (562) 499-2202
Authorized Person to Sign and Submit Reports	Timothy Hayes, Director – Pipeline and Terminal Operations, (310) 847-5812
Mailing Address	SAME
Billing Address	SAME
Type of Facility	Industrial (Petroleum Bulk Stations and Terminals; SIC 5171)
Major or Minor Facility	Minor
Threat to Water Quality	3
Complexity	С
Pretreatment Program	N/A
Recycling Requirements	N/A
Facility Permitted Flow	Discharge Point 001: 0.5 million gallons per day (MGD) Discharge Point 002: 0.5 MGD Discharge Point 002: 0.5 MGD
Facility Design Flow	Discharge Point 001: 0.5 million gallons per day (MGD) Discharge Point 002: 0.5 MGD Discharge Point 002: 0.5 MGD
Watershed	Dominguez Channel Watershed
Receiving Water	Channel No. 2, Long Beach Inner Harbor
Receiving Water Type	Enclosed Bay

- A. Tesoro Logistics Operations, LLC (hereinafter Discharger) is the owner and operator of the Marine Terminal 2 facility (hereinafter Facility), a petroleum transfer and storage facility. (SIC Code 5171).
 - For the purposes of this Order, references to the "discharger" or "permittee" in applicable federal and state laws, regulations, plans, or policy are held to be equivalent to references to the Discharger herein.
- B. The Facility discharges storm water to Channel 2 of the Long Beach Inner Harbor, a water of the United States within the Dominguez Channel and Los Angeles/Long Beach Harbors Watershed. The Discharger was previously regulated by Order R4-2009-0126 and National Pollutant Discharge Elimination System (NPDES) Permit No. CA0000442 adopted on December 10, 2009, which was scheduled to expire on November 10, 2014. As per 40 C.F.R. section 122.6, Order R4-2009-0126 has been administratively extended and remains in effect until new Waste Discharge Requirements and an NPDES permit are adopted pursuit to this Order. Attachment B provides a map of the area around the Facility. Attachment C provides a flow schematic of the Facility.
 - Prior to making any change in the point of discharge, place of use, or purpose of use of treated wastewater that results in a decrease of flow in any portion of a watercourse, the Discharger must file a petition with the State Water Board, Division of Water Rights, and receive approval for such a change. The State Water Board retains the jurisdictional authority to enforce such requirements under Water Code section 1211.
- C. The Discharger filed a report of waste discharge and submitted an application for reissuance of its WDR's and NPDES permit on May 8, 2014. The application was deemed complete on November 3, 2014. A site visit was conducted on November 19, 2014, to observe operations and collect additional data to develop permit limitations and requirements for waste discharge.

II. FACILITY DESCRIPTION

The Discharger owns and operates a facility for the temporary storage and transfer of crude oil, intermediates, and finished petroleum products. The Terminal is comprised of three tank farms (Nos. 1, 2, and 3) containing 34 storage tanks; docks at Berths 76, 77, and 78; and storage, transfer, and ancillary operations with a total product storage capacity of approximately 2.1 million barrels (88 million gallons). Products are transferred to and from oil tankers, storage tanks, the Tesoro Pipelines (North America) Inc. – Carson Refinery, and other companies.

A. Description of Wastewater and Biosolids Treatment and Controls

The discharge consists of storm water and no treatment is provided on site. An oil water separator that was previously used was taken out of service in 2002.

Storm water runoff that is collected in the low spots or sumps in the tank farm areas at the Facility is normally transferred via pipeline to Tank 221 (a.k.a. slop tank). In addition, storm water from an off-site location, Marine Terminal 3, is piped into Tank 221. The storm water collected from Tank 221 is subsequently delivered to Tesoro Carson Refinery for treatment and eventual discharge to a publicly owned treatment works (POTW). Standard operations at the Facility involve managing storm water collected in each of the tank farms such that no discharge to the Long Beach Inner Harbor occurs (i.e., the Facility tries to direct all accumulated storm water to Tank 221). When the capacity of Tank 221 is reached, the Facility can bypass Tank 221 and direct storm water to Channel No. 2 of the Long Beach Inner Harbor in accordance with the requirements of this permit. The wastewater discharge from Tank 221 is not covered under this permit and therefore, shall not be discharged into the Long Beach Inner Harbor under any circumstances.

The Discharger intermittently discharges up to 0.5 million gallons per day (MGD) of untreated stormwater runoff generated from each of the tank farms through Discharge Points 001, 002, and 003 that flow into Channel No. 2 of the Long Beach Inner Harbor, a water of the United States.

B. Discharge Points and Receiving Waters

Storm water from three tank farms may be discharged to surface waters at the following discharge points:

<u>Discharge Point 001</u>: Discharge from Tank Farm 1 to Channel No. 2 of the Long Beach Inner Harbor, approximate coordinates: Latitude 33.775972° N, Longitude -118.212806° W.

<u>Discharge Point 002</u>: Discharge from Tank Farm 2 to Channel No. 2 of the Long Beach Inner Harbor, approximate coordinates: Latitude 33.775944°N, Longitude -118.212889°W.

<u>Discharge Point 003</u>: Discharge from Tank Farm 3 to Channel No. 2 of the Long Beach Inner Harbor, approximate coordinates: Latitude 33.775222°N, Longitude -118.214694°W.

C. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data

No discharges of storm water occurred during the term of the permit from December 2009 through November 2014. Therefore, there were no samples collected representing storm water discharges.

D. Compliance Summary

No discharges of storm water occurred during the term of the permit.

E. Planned Changes

The Discharger does not anticipate any changes during the permit term of this Order and anticipates that it will continue to deliver collected storm water to the Tesoro Carson Refinery for treatment and subsequent disposal to a POTW.

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in this Order are based on the requirements and authorities described in this section.

A. Legal Authorities

This Order serves as WDR's pursuant to article 4, chapter 4, division 7 of the California Water Code (commencing with section 13260). This Order is also issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. EPA and chapter 5.5, division 7 of the Water Code (commencing with section 13370). It shall serve as an NPDES permit for point source discharges from this facility to surface waters.

B. California Environmental Quality Act (CEQA)

Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of Chapter 3 of CEQA, (commencing with section 21100) of Division 13 of the Public Resources Code.

C. State and Federal Laws, Regulations, Policies, and Plans

1. Water Quality Control Plan. The Regional Water Board adopted a Water Quality Control Plan for the Los Angeles Region (hereinafter Basin Plan) on June 13, 1994 that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Requirements in this Order implement the Basin Plan. In addition, the Basin Plan implements State Water Board Resolution 88-63, which established state policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Beneficial uses applicable to the Long Beach Inner Harbor are as follows:

Discharge Receiving Beneficial Use(s) Point **Water Name** Industrial service supply (IND), navigation (NAV), noncontact water recreation (REC2), commercial and sport fishing (COMM), marine habitat (MAR), and rare, threatened, or Channel No. 2, 001.002 endangered species (RARE). Long Beach and 003 Inner Harbor Potential: Water contact recreation (REC1) and shellfish harvesting

(SHELL).

Table F-2. Basin Plan Beneficial Uses

- 2. Thermal Plan. The State Water Board adopted the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California (Thermal Plan) on January 7, 1971, and amended this plan on September 18, 1975. This plan contains temperature objectives for surface waters. Requirements of this Order implement the Thermal Plan. Additionally, a white paper was developed by Regional Water Board staff entitled Temperature and Dissolved Oxygen Impacts on Biota in Tidal Estuaries and Enclosed Bays in the Los Angeles Region. The white paper evaluated the optimum temperatures for steelhead, topsmelt, ghost shrimp, brown rock crab, jackknife clam, and blue mussel species found in the Los Angeles Region. A maximum effluent temperature limitation of 86°F was determined to be appropriate for protection of aquatic life and is included in this Order.
- 3. Sediment Quality. The State Water Board adopted the Water Quality Control Plan for Enclosed Bays and Estuaries Part 1, Sediment Quality on September 16, 2008, and it became effective on August 25, 2009. This plan supersedes other narrative sediment quality objectives, and establishes new sediment quality objectives and related implementation provisions for specifically defined sediments in most bays and estuaries. Requirements of this Order implement sediment quality objectives of this Plan.
- 4. National Toxics Rule (NTR) and California Toxics Rule (CTR). U.S. EPA adopted the NTR on December 22, 1992, and later amended it on May 4, 1995 and November 9, 1999. About forty criteria in the NTR applied in California. On May 18, 2000, U.S. EPA adopted the CTR. The CTR promulgated new toxics criteria for California and, in addition, incorporated the previously adopted NTR criteria that were applicable in the state. The CTR was amended on February 13, 2001. These rules contain federal water quality criteria for priority pollutants.
- 5. State Implementation Policy. On March 2, 2000, the State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the U.S. EPA through the NTR and to the priority pollutant objectives established by the Regional Water Board in the Basin Plan. The SIP became effective on May 18, 2000, with respect to the priority pollutant criteria promulgated by the U.S. EPA through the CTR. The

State Water Board adopted amendments to the SIP on February 24, 2005, that became effective on July 13, 2005. The SIP establishes implementation provisions for priority pollutant criteria and objectives and provisions for chronic toxicity control. Requirements of this Order implement the SIP.

- 6. Antidegradation Policy. Federal regulation 40 C.F.R. section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16 ("Statement of Policy with Respect to Maintaining High Quality of Waters in California"). Resolution 68-16 is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies. The permitted discharge must be consistent with the antidegradation provision of 40 C.F.R. section 131.12 and State Water Board Resolution 68-16.
- 7. Anti-Backsliding Requirements. Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 C.F.R. section 122.44(I) restrict backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed.
- 8. Endangered Species Act Requirements. This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code, §§ 2050 to 2097) or the Federal Endangered Species Act (16 U.S.C.A. §§ 1531 to 1544). This Order requires compliance with effluent limits, receiving water limits, and other requirements to protect the beneficial uses of waters of the state, including protecting rare, threatened, or endangered species. The discharger is responsible for meeting all requirements of the applicable Endangered Species Act.

D. Impaired Water Bodies on CWA 303(d) List

Section 303(d) of the CWA requires states to identify specific water bodies where water quality standards are not expected to be met after implementation of technology-based effluent limitations on point sources. For all 303(d)-listed water bodies and pollutants, the Water Board plans to develop and adopt TMDLs that will specify waste load allocations (WLAs) for point sources and load allocations (LAs) for non-point sources, as appropriate.

Certain receiving waters in the Los Angeles and Ventura County watersheds do not fully support beneficial uses and therefore have been classified as impaired on the 2010 CWA section 303(d) list and have been scheduled for TMDL development. On November 12, 2010, U.S. EPA approved California's 2010 CWA Section 303(d) list of impaired waters and disapproved the omission of several water bodies and associated pollutants that met federal listing requirements. U.S. EPA identified additional water bodies and pollutants for inclusion on the State's CWA section 303(d) list. On October 11, 2011, U.S.EPA issued its final decision regarding the waters U.S. EPA added to the State's CWA section 303(d) list.

The Facility discharges into Long Beach Inner Harbor. The 2010 California CWA section 303(d) List classifies the Long Beach Inner Harbor as impaired. The pollutants/stressors of concern for the Long Beach Inner Harbor include: pathogens (beach closures), miscellaneous pollutants causing benthic community effects, benzo(a)pyrene, chrysene (CIC4), copper, DDT (dichlorodiphenyltrichloroethane), PCBs (polychlorinated biphenyls), sediment toxicity, and zinc.

TMDLs have been developed to address bacteria and toxics in the Los Angeles/Long Beach Harbor areas.

- 1. Bacteria TMDL. The Regional Water Board approved the Los Angeles Harbor Bacteria TMDL (Bacteria TMDL) through Resolution 2004-011 on July 1, 2004. The State Water Board, Office of Administrative Law (OAL), and U.S. EPA approved the TMDL on October 21, 2004, January 5, 2005, and March 1, 2005, respectively. The Bacteria TMDL became effective on March 10, 2005. The Bacteria TMDL addresses Inner Cabrillo Beach and the Main Ship Channel of the Los Angeles Inner Harbor, but does not address the location near the Facility. The requirements in the Bacteria TMDL are not applicable to the discharge from the Facility. Also, the discharge is storm water from a fuel storage facility and is not expected to contribute to elevated bacterial densities. Therefore, no effluent limitations for bacteria are included in this order. However, this Order requires the Discharger to monitor for bacteria.
- 2. Harbor Toxics TMDL. The Regional Water Board adopted Resolution No. R11-008 on May 5, 2011, that amended the Basin Plan to incorporate the TMDL for Toxic Pollutants in Dominguez Channel and Greater Los Angeles and Long Beach Harbors Waters (Harbor Toxics TMDL). The Harbor Toxics TMDL was approved by the State Water Board on February 7, 2012, the OAL on March 21, 2012, and the U.S. EPA on March 23, 2012. The Harbor Toxics TMDL contains requirements applicable to this discharge. Therefore, the Regional Water Board has developed and included effluent limitations and monitoring requirements within this Order that are consistent with all assumptions and requirements of all WLAs included in the Harbor Toxics TMDL.

For the Greater Harbors Waters, the Harbor Toxics TMDL included:

- a. Sediment interim concentration-based allocations (in mg/kg sediment) for copper, lead, zinc, 4,4'-DDT, PAHs [benzo(a)anthracene, benzo(a)pyrene, chrysene, and pyrene], and PCBs (Attachment A to Resolution No. R11-008, p. 11).
- b. Water column final concentration-based WLAs (μg/L) for copper, lead, zinc, 4,4'-DDT, and total PCBs (Attachment A to Resolution No. R11-008, pp. 13-14).
- c. Provisions for monitoring discharges and/or receiving waters during the TMDL's 20 year implementation schedule to determine attainment with wasteload and load allocations as appropriate.

The provisions included here are consistent with the assumptions and requirements of the WLAs established in the Harbor Toxics TMDL.

3. Implementation of the Harbor Toxics TMDL. This Order includes final WQBELs that are statistically-calculated based on salt water column final concentration-based WLAs (in μg/L, total metal) for copper (3.73), lead (8.52), zinc (85.6), 4,4'-DDT (0.00059), and total PCBs (0.00017) (referred to in this Order as CTR TMDL-based WLAs), converted from saltwater CTR criteria using CTR saltwater default translators, and relevant implementation provisions in section 1.4 of the State Implementation Policy. The TMDL includes provisions for a 20 year implementation schedule when warranted. However, this Order requires final WQBELs (referred to in this Order as CTR TMDL-based effluent limits) because any compliance schedule or interim limits for these constituents may only be included in the Order as per the Clean Water Act section 303(c)(2) approval received from U.S. EPA on November 8, 2012. The U.S. EPA approval authorizes compliance schedules for CTR criteria with WLAs in the Harbor Toxics TMDL under certain conditions. One condition is that the discharger must demonstrate an inability to meet effluent limitations resulting from the WLAs. The Discharger

does not have data available to support a compliance schedule, therefore this Order does not allow for a compliance schedule.

This Order also includes monitoring thresholds based on the TMDL's interim sediment allocations (in mg/kg sediment dry weight) for copper (142.3), lead (50.4), zinc (240.6), DDT (0.070), PAHs (4.58), and PCBs (0.060), and associated sediment monitoring requirements for the effluent. Regardless of these monitoring thresholds, the Discharger shall ensure that effluent concentrations and mass discharges do not exceed levels that can be attained by performance of the Facility's control and/or treatment technologies existing at the time of permit issuance, reissuance, or modification. The TMDL's sediment allocations were developed to ensure that the beneficial uses of the Long Beach Inner Harbor are preserved.

The water column CTR TMDL-based WLAs for copper, lead, zinc, 4,4'-DDT, and total PCBs were developed to ensure that the beneficial uses of the Long Beach Inner Harbor are preserved. However, no water column CTR TMDL-based WLAs were assigned for PAHs in the Greater Harbor Waters (which includes the Los Angeles/Long Beach Inner and Outer Harbors). Therefore, this Order sets performance goals for the PAHs; benzo(a)pyrene and chrysene, to ensure proper implementation of the TMDL's interim sediment allocations for this discharge. During each reporting period, if effluent monitoring results exceed both a TSS effluent limitation and an effluent limitation or performance goal for copper, lead, zinc, DDT, PAHs (benzo(a)pyrene and chrysene), or PCBs, then the Discharger has not demonstrated attainment with the sediment allocations stipulated by the Harbor Toxics TMDL, Resolution No. R11-008, and implementation of the effluent sediment monitoring program is required for that priority pollutant. Sediment monitoring of the effluent shall begin during the first discharge event following the effluent exceedances. An effluent sediment monitoring result at or below the applicable sediment allocation established in Table 5, page 12. of this Order demonstrates attainment with the sediment allocation and additional sediment monitoring of the effluent is not required. A sediment monitoring result that exceeds the sediment allocation requires additional sediment monitoring of the effluent during discharge, but not more frequently than once per year, until the three-year average concentration for sediment monitoring results is at or below the applicable sediment allocation.

Performance Goals for Individual PAHs: Benzo(a)pyrene and Chrysene

The performance goals for benzo(a)pyrene and chrysene are intended to ensure that effluent concentrations and mass discharges do not exceed levels that are protective of CTR based human health criteria. These performance goals are not enforceable effluent limitations. They act as triggers to determine when sediment monitoring of the effluent is required for these compounds.

CTR human health criteria are not promulgated for total PAHs. Therefore, performance goals are based on CTR human health criteria for the individual PAHs, benzo(a)pyrene (0.049 μ g/L) and chrysene (0.049 μ g/L). Benzo(a)pyrene and chrysene are selected because the State's 2010 303(d) List classifies the Los Angeles/Long Beach Inner Harbor as impaired for these PAH compounds. See also the May 5, 2011, Final Staff Report for the Harbor Toxics TMDL (Staff Report).

4. Harbor Toxics TMDL Water Column, Sediment, and Fish Tissue Monitoring for Greater Los Angeles and Long Beach Harbor Waters Compliance Monitoring Program. The TMDL's implementation schedule to demonstrate attainment of WLAs and load allocations is 20 years after the TMDL effective date for a Discharger who justifies the need for an associated time included in a compliance plan. During this period, the Discharger is required, either individually or with a collaborating group, to develop a monitoring and

reporting plan (Monitoring Plan) and quality assurance project plan (QAPP) for the water column, sediment, and fish tissue in the Greater Los Angeles and Long Beach Harbor. These plans shall follow the "TMDL Element – Monitoring Plan" provisions in Attachment A to Resolution No. R11-008. The Discharger must inform the Regional Water Board if they plan to join a collaborative monitoring effort or develop a site specific plan 90 days after the effective date of the permit. If the Discharger is joining a collaborative effort that notification must include documentation of such. If developing a site specific Monitoring Plan, the plan must be submitted 12 months after the effective date of the permit for public review and, subsequently, Executive Officer approval. Monitoring shall begin 6 months after a monitoring plan is approved by the Executive Officer. The compliance monitoring program shall include water column, sediment, and fish tissue monitoring.

The provisions included in this Order implement and are consistent with the assumptions and requirements of all WLAs established in TMDLs that are applicable to the discharge from this Facility.

E. Other Plans, Polices and Regulations

Not Applicable

IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source dischargers to control the amount of conventional, non-conventional, and toxic pollutants that are discharged into the waters of the United States. The control of pollutants discharged is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations in the Code of Federal Regulations: 40 C.F.R. section 122.44(a) requires that permits include applicable technology-based limitations and standards; and 40 C.F.R. section 122.44(d) requires that permits include water quality-based effluent limitations to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water.

Generally, mass-based effluent limitations ensure that proper treatment, and not dilution. is employed to comply with the final effluent concentration limitations. Section 122.45(f)(1) requires that all permit limitations, standards or prohibitions be expressed in terms of mass units except under the following conditions: (1) for pH, temperature, radiation or other pollutants that cannot appropriately be expressed by mass limitations; (2) when applicable standards or limitations are expressed in terms of other units of measure; or (3) if in establishing technology-based permit limitations on a case-by-case basis, limitations based on mass are infeasible because the mass or pollutant cannot be related to a measure of production. The limitations, however, must ensure that dilution will not be used as a substitute for treatment.

A. Discharge Prohibitions

The discharge prohibitions are based on the requirements of the Basin Plan, State Water Board's plans and policies, the Water Code, and previous permit provisions, and are consistent with the requirements set for other discharges to the Long Beach Inner Harbor that are regulated by an NPDES permit.

B. Technology-Based Effluent Limitations

1. Scope and Authority

Section 301(b) of the CWA and implementing U.S. EPA permit regulations at 40 C.F.R. Section 122.44 require that permits include conditions meeting applicable technology-based requirements at a minimum, and any more stringent effluent limitations necessary to meet

applicable water quality standards. The discharge authorized by this Order must meet minimum federal technology-based requirements based on Best Professional Judgment (BPJ) in accordance with Part 125, Section 125.3.

The CWA requires that technology-based effluent limitations be established based on several levels of controls:

- a. Best practicable treatment control technology (BPT) represents the average of the best existing performance by well-operated facilities within an industrial category or subcategory. BPT standards apply to toxic, conventional, and non-conventional pollutants.
- b. Best available technology economically achievable (BAT) represents the best existing performance of treatment technologies that are economically achievable within an industrial point source category. BAT standards apply to toxic and non-conventional pollutants.
- c. Best conventional pollutant control technology (BCT) represents the control from existing industrial point sources of conventional pollutants including BOD, TSS, fecal coliform, pH, and oil and grease. The BCT standard is established after considering a two-part reasonableness test. The BCT standard is established after considering the "cost reasonableness" of the relationship between the cost of attaining a reduction in effluent discharge and the benefits that would result, and also the cost effectiveness of additional industrial treatment beyond BPT.
- d. New source performance standards (NSPS) represent the best available demonstrated control technology standards. The intent of NSPS guidelines is to set limitations that represent state-of-the-art treatment technology for new sources.

The CWA requires U.S. EPA to develop effluent limitations, guidelines and standards (ELGs) representing application of BPT, BAT, BCT, and NSPS. Section 402(a)(1) of the CWA and 40 C.F.R. section 125.3 authorize the use of best professional judgment (BPJ) to derive technology-based effluent limitations on a case-by-case basis where ELGs are not available for certain industrial categories and/or pollutants of concern. Where BPJ is used, the Regional Water Board must consider specific factors outlined in 40 C.F.R. section 125.3.

2. Applicable Technology-Based Effluent Limitations

This Order includes technology-based effluent limitations based on BPJ in accordance with 40 C.F.R. section 125.3. Numeric effluent limitations for total suspended solids (TSS), oil and grease, biochemical oxygen demand (BOD), total sulfides, total phenols, benzene, ethylbenzene, toluene, xylene, and total petroleum hydrocarbons have been included consistent with the existing Order (No. R4-2009-0126). The numeric effluent limitations for these pollutants are consistent with technology-based limitations included in other Orders within the Los Angeles Region.

Order R4-2009-0126 required the Discharger to develop and implement a Storm Water Pollution Prevention Plan (SWPPP). This Order will require the Discharger to update and continue to implement, consistent with the existing Order requirements, a SWPPP. The SWPPP will outline site-specific management processes for minimizing storm water runoff contamination and for preventing contaminated storm water runoff from being discharged directly into the storm drain. At a minimum, the management practices should ensure that raw materials do not come into contact with storm water that could be discharged to surface water. In addition, due to the lack of national ELGs for storm water runoff from petroleum

tank farms and the absence of data to apply BPJ to develop numeric effluent limitations, and pursuant to section 122.44(k), the Regional Water Board will require the Discharger to update the Best Management Practices Plan (BMPP). A BMPP shall be consistent with the requirements of 40 CFR Part 125, Subpart K, and the general guidance contained in the NPDES Best Management Guidance Document, U.S. EPA Report No. 600/9-79-045, December 1979 (revised June 1981). The purpose of the BMPP will be to establish site-specific procedures that will ensure proper operation and maintenance of equipment and storage areas, to ensure that unauthorized non-storm water discharges (i.e., spills) do not occur at the Facility. This Order will also require the Discharger to develop and implement a Spill Contingency Plan.

The combination of the SWPPP, BMPP, Spill Contingency Plan, and effluent limitations reflecting BPJ will serve as the equivalent of technology-based effluent limitations, in the absence of established ELGs, in order to carry out the purposes and intent of the CWA.

Table F-3. Summary of Technology-based Effluent Limitations

		Effluent Limitations		
Parameter	Units	Average Monthly	Maximum Daily	
Biochemical Oxygen	mg/L		30	
Demand (BOD) (5-day @ 20℃)	lbs/day1		125	
Total Suspended Solids	mg/L		75	
(TSS)	lbs/day1		313	
Oil and Grease	mg/L		15	
Oil and Grease	lbs/day1		63	
Total Phenols	mg/L		1.0	
Total Frieriois	lbs/day1		4.0	
Sulfides, Total (as S)	mg/L		0.1	
Suilides, Total (as S)	lbs/day1		0.4	
Benzene	μg/L		1	
Benzene	lbs/day1		0.004	
Ctb. db.anzana	μg/L		10	
Ethylbenzene	lbs/day1		0.04	
Taluana	μg/L		10	
Toluene	lbs/day1		0.04	
Vylone	μg/L		10	
Xylene	lbs/day1		0.04	
Total Petroleum	μg/L		100	
Hydrocarbons	lbs/day1		0.4	

The mass emission rates are based on the Facility's maximum flow rate of 0.5 MGD at each Discharge Point, and are calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day.

C. Water Quality-Based Effluent Limitations (WQBEL's)

1. Scope and Authority

CWA Section 301(b) and 40 C.F.R. section 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards.

Section 122.44(d)(1)(i) of 40 C.F.R. requires that permits include effluent limitations for all pollutants that are or may be discharged at levels that have the reasonable potential to cause or contribute to an exceedance of a water quality standard, including numeric and narrative objectives within a standard. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective for the pollutant, water quality-based effluent limitations (WQBEL's) must be established using: (1) U.S. EPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) an indicator parameter for the pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting the state's narrative criterion, supplemented with other relevant information, as provided in section 122.44(d)(1)(vi).

The process for determining reasonable potential and calculating WQBEL's when necessary is intended to protect the designated beneficial uses of the receiving water as specified in the Basin Plan, and achieve applicable water quality objectives and criteria that are contained in other state plans and policies, or any applicable water quality criteria contained in the CTR and NTR.

2. Applicable Beneficial Uses and Water Quality Criteria and Objectives

As noted in section II of the Limitations and Discharge Requirements, the Regional Water Board adopted a Basin Plan that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the Basin Plan. The beneficial uses applicable to Long Beach Inner Harbor are summarized in section III.C.1 of this Fact Sheet. The Basin Plan includes both narrative and numeric water quality objectives applicable to the receiving water

Priority pollutant water quality criteria in the CTR are applicable to the Long Beach Inner Harbor. The CTR contains both saltwater and freshwater criteria. Because a distinct separation generally does not exist between freshwater and saltwater aquatic communities, the following apply, in accordance with section 131.38(c)(3), freshwater criteria apply at salinities of 1 part per thousand (ppt) and below at locations where this occurs 95 percent or more of the time. The CTR criteria for saltwater, or human health for consumption of organisms, whichever is more stringent, are used to prescribe the effluent limitations to protect the beneficial uses of the Long Beach Inner Harbor. The Regional Water Board has determined that because the discharge is within the Harbor, saltwater and human health consumption of organism CTR criteria are applicable and the most stringent values were used

3. Determining the Need for WQBEL's

a. Reasonable Potential Analysis Methodology

In accordance with Section 1.3 of the SIP, the Regional Water Board conducts a Reasonable Potential Analysis (RPA) for each priority pollutant with an applicable criterion or objective to determine if a WQBEL is required in the permit. If there is a TMDL with WLAs approved by U.S. EPA, then WQBELs are developed using these

WLAs. Otherwise, the Regional Water Board analyzes effluent and receiving water data and identifies the maximum observed effluent concentration (MEC) and maximum background concentration (B) in the receiving water for each constituent. To determine reasonable potential, the MEC and the B are then compared with the applicable water quality objectives (C) outlined in the CTR, NTR, as well as the Basin Plan. For all pollutants that have a reasonable potential to cause or contribute to an excursion above a state water quality standard, numeric WQBELs are required.

Section 1.3 of the SIP provides the procedures for determining reasonable potential to exceed applicable water quality criteria and objectives. The SIP specifies three triggers to complete a RPA:

- i. Trigger 1 if MEC ≥ C, a limit is needed.
- ii. <u>Trigger 2</u> If the background concentration B > C and the pollutant is detected in the effluent, a limit is needed.
- Trigger 3 If other related information such as CWA 303(d) listing for a pollutant, discharge type, compliance history, or other applicable factors indicate that a WQBEL is required.

Sufficient effluent and receiving water data are needed to conduct a complete RPA. If data are not sufficient, the Discharger will be required to gather the appropriate data for the Regional Water Board to conduct the RPA. Upon review of the data, and if the Regional Water Board determines that WQBEL's are needed to protect the beneficial uses, the permit will be reopened for appropriate modification.

There were no storm water discharges during the permit term, thus there was insufficient data available to conduct an RPA. In lieu of an RPA, this Order includes all effluent limitations that were established in Order No. R4-2009-0126 for arsenic, cadmium, chromium VI, copper, lead, mercury, selenium, and silver.

Additionally, the Regional Water Board developed WQBELs for copper, lead, zinc, 4,4'-DDT, and total PCBs that have specified WLAs included in the Harbor Toxics TMDL. The Regional Water Board developed WQBEL's for these pollutants pursuant to 40 C.F.R. section 122.44(d)(1)(vii), which does not require or contemplate a reasonable potential analysis. Similarly, the SIP at section 1.3 recognizes that a reasonable potential analysis is not appropriate if a TMDL has been developed.

As described in Section III.D of this Fact Sheet, and in accordance with the Harbor Toxics TMDL, the final WQBEL's were statistically-calculated based on salt water column final concentration-based WLAs for copper, lead, zinc, 4,4'-DDT, and total PCBs (see Section IV.C.4 below). The resulting Harbor Toxics TMDL-based WQBEL's for copper are less stringent than those established in Order No. R4-2009-0126. As described further in Section IV.D.1 below, the relaxation of the WQBEL's for copper are in accordance with anti-backsliding requirements of the Clean Water Act.

4. WQBEL Calculations

- a. If reasonable potential exists to exceed applicable water quality criteria or objectives, then a WQBEL must be established in accordance with one or more of the three procedures contained in section 1.4 of the SIP. These procedures include:
 - i. If applicable and available, use the WLA established as part of a TMDL.
 - ii. Use of a steady-state model to derive maximum daily effluent limitations (MDELs) and average monthly effluent limitations (AMELs).

- iii. Where sufficient effluent and receiving water data exist, use of a dynamic model, which has been approved by the Regional Water Board.
- Because no new effluent data is available for arsenic, cadmium, chromium VI, mercury, selenium, and silver, effluent limitations from Order No. R4-2009-0126 have been included.
- c. The Harbor Toxics TMDL establishes WLAs for copper, lead, zinc, 4,4'-DDT, and total PCBs; WQBEL's for these constituents are calculated following the procedures in section 1.4 of the SIP.

d. WQBELs Calculation Example

Using lead as an example, the following demonstrates how WQBEL's were established for this Order. Attachment J summarizes the calculation of all WQBELs implementing the Harbor Toxics TMDL for this Order using the process described below. The process for developing these limits is in accordance with the Harbor Toxics TMDL and section 1.4 of the SIP.

Calculation of aquatic life AMEL and MDEL:

Step 1: For each constituent requiring an effluent limit, identify the applicable water quality criteria or objective. For each criterion, determine the effluent concentration allowance (ECA) using the following steady state equation:

ECA = C + D(C-B)when C>B, and

ECA = C when $C \le B$.

Where

- C = The priority pollutant criterion/objective, adjusted if necessary for hardness, pH and translators. For discharges from the Facility, criteria for saltwater are independent of hardness and pH.
- D = The dilution credit, and
- B = The ambient background concentration

Due to the fact that WQBELs are being calculated to implement the Harbor Toxics TMDL, this Order does not allow dilution: therefore:

$$ECA = C$$

For total recoverable lead the applicable water quality criteria is from the Harbor Toxics TMDL based on chronic aquatic life criteria. Thus, for total recoverable lead:

$$ECA = WLA_{Harbor\ Toxics\ TMDL/chronic\ aquatic\ life} = 8.52\ \mu g/L$$

Step 2: For each ECA based or aquatic life criterion/objective, determine the long-term average discharge condition (LTA) by multiplying the ECA by a factor (multiplier). The multiplier is a statistically based factor that adjusts the ECA to account for effluent variability. The value of the multiplier varies depending on the coefficient of variation (CV) of the data set and whether it is an acute or chronic criterion/objective. Based on the Harbor Toxics TMDL, only the chronic criteria will be applicable. Table 1 of the SIP provides pre-calculated values for the multipliers based on the value of the CV. Equations to develop the multipliers are provided in section 1.4, Step 3 of the SIP and will not be repeated here.

LTA_{chronic} = ECA_{chronic} x Multiplier_{chronic99}

The CV for the data set must be determined before the multipliers can be selected and will vary depending on the number of samples and the standard deviation of a data set. If the data set is less than 10 samples, or at least 80% of the samples in the data set are reported as non-detect, the CV shall be set equal to 0.6. It the data set is greater than 10 samples, and at least 20% of the samples in the data set are reported as detected, the CV shall be equal to the standard deviation of the data set divided by the average of the data set.

As described in Section IV.C.3 above, no discharges occurred during the term of Order R4-2009-0126, so no representative data is available to calculate a CV. Because there is no recently available effluent data the default CV is used for the purpose of calculating the effluent limitation.

No. of Samples	CV	ECA Multiplier _{chronic}
0	0.6	0.527

 $LTA_{chronic} = 8.52 \mu g/L \times 0.527 = 4.49 \mu g/L$

Step 3: Select the most limiting (lowest) of the LTA.

LTA = most limiting of LTA_{acute} or LTA_{chronic}

For lead, since we are limited to using the chronic aquatic life criteria, the most limiting LTA is LTA_{chronic}

$$LTA_{copper} = LTA_{chronic} = 4.49 \mu g/L$$

Step 4: Calculate the WQBEL's by multiplying the LTA by a factor (multiplier). WQBEL's are expressed as AMEL and MDEL. The multiplier is a statistically based factor that adjusts the LTA for the averaging periods and exceedance frequencies of the criteria/objectives and the effluent limitations. The value of the multiplier varies depending on the probability basis, the CV of the data set, the number of samples (for AMEL) and whether it is a monthly or daily limit. Table 2 of the SIP provides precalculated values for the multipliers based on the value of the CV and the number of samples. Equations to develop the multipliers are provided in section 1.4, Step 5 of the SIP and will not be repeated here.

 $AMEL_{aquatic life} = LTA x AMEL_{multiplier95}$

MDEL_{aquatic life} = LTA x MDEL_{multiplier99}

AMEL multipliers are based on a 95th percentile occurrence probability, and the MDEL multipliers are based on the 99th percentile occurrence probability. If the number of samples is less than four (4), the default number of samples to be used is four (4).

For total recoverable lead, the following data were used to develop the AMEL and MDEL for effluent limitations using equations provided in section 1.4, Step 5 of the SIP:

No. of Samples Per Month	CV	Multiplier _{MDEL99}	Multiplier _{AMEL95}
4	0.6	3.11	1.55

Total Recoverable Lead

 $AMEL = 4.49 \mu g/L \times 1.55 = 6.96 \mu g/L$

MDEL = $4.49 \mu g/L \times 3.11 = 13.9 \mu g/L$

Step 5: For the ECA based on human health, set the AMEL equal to the ECA human health

In the case of total recoverable lead, there are no human health criteria. Therefore, there will be no AMEL or MDEL calculated for human health criteria. For demonstration, the calculated effluent limitations for 4,4'-DDT are shown.

For 4,4'-DDT,

 $AMEL_{human\ health} = 0.00059\ \mu g/L$

Step 6: Calculate the MDEL for human health by multiplying the AMEL by the ratio of Multipler_{MDEL} to the Multiplier_{AMEL}. Table 2 of the SIP provides pre-calculated ratios to be used in this calculation based on the CV and the number of samples.

 $MDEL_{human\ health} = AMEL_{human\ health}\ x\ (Multiplier_{MDEL}/\ Multiplier_{AMEL})$

For 4,4'-DDT, the following data were used to develop the MDEL_{human health}:

No. of Samples Per Month	CV	Multiplier _{MDEL 99}	Multiplier _{AMEL 95}	Ratio
4	0.6	3.11	1.55	2.01

For 4,4'-DDT:

MDEL_{human health}= $0.00059 \mu g/L \times 2.01 = 0.0012 \mu g/L$

Step 7: Select the lower of the AMEL and MDEL based on aquatic life and human health criteria as the WQBEL for the Order. Because none of the calculated effluent limitations for 4,4'-DDT have applicable aquatic life criteria, the AMEL and MDEL based on human health criteria are applicable.

Because the discharge is comprised entirely of storm water, and discharges are expected to be infrequent and short in duration, the Regional Water Board has determined that AMELs do not appropriately account for pollutant concentration variation within the discharge for infrequent discharges, and only MDELs shall be established.

5. WQBEL's Based on Basin Plan Objectives

Applicable Basin Plan objectives are summarized in the following table:

Table F-4. Applicable Basin Plan Numeric Water Quality Objectives

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Constituent	Units	Water Quality Objective
рН	standard units	The pH of bays or estuaries must be between 6.5 and 8.5 at all times and ambient pH shall not be changed more than 0.2 units from natural conditions.
Ammonia	mg/L	1-hour avg. unionized ammonia concentration (mg/L) 0.233 mg/L 4-day avg. unionized ammonia concentration (mg/L) 0.035 mg/L
Dissolved Oxygen	mg/L	The mean annual dissolved oxygen concentration of all waters shall be greater than 7.0 mg/L, and no single determination shall be less than 5.0 mg/L, except when natural conditions cause lesser concentrations.
Turbidity	NTU	Where natural turbidity is between 0 and 50 NTU, increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU increases shall not exceed 10%.

- a. **pH.** This Order includes effluent and receiving water limitations for pH to ensure compliance with Basin Plan Objectives for pH.
- b. **Ammonia.** The Order includes receiving water limitations for ammonia to ensure compliance with Basin Plan objectives for ammonia.
- Dissolved Oxygen. This Order addresses dissolved oxygen through effluent monitoring and receiving water limitations.
- Turbidity. This Order applies the water quality objective for turbidity as a receiving water limitation.
- e. **Temperature.** This Order addresses the WQO for temperature, through including effluent limitations based on the interpretation of the Thermal Plan and the White Paper, as described in section III.C.2 of this Fact Sheet.
- f. **Total Suspended Solids.** The Basin Plan requires that, "Waters shall not contain suspended or settleable material in concentrations that cause nuisance or adversely affect beneficial uses." This narrative objective has been translated into a numeric effluent limit, based on U.S. EPA's *Quality Criteria for Water* (commonly known as the "Gold Book"). In the Gold Book, U.S. EPA notes that "In a study downstream from a discharge where inert suspended solids were increased to 80 mg/L, the density of macroinvertebrates decreased by 60 percent...". This indicates that suspended solids concentrations of 80 mg/L in the receiving water resulted in adverse effects to aquatic life. As discussed in Section IV.B.2 of this Fact Sheet, a technology-based effluent limitation of 75 mg/L was included in Order R4-2009-0126 and is being carried forward in this Order. This technology-based effluent limitation of 75 mg/L should ensure compliance with the Basin Plan narrative water quality objective for solids.

6. Whole Effluent Toxicity (WET)

Whole effluent toxicity (WET) protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. WET tests measure the degree of response of exposed aquatic test organisms to an effluent. The WET approach allows for protection of the narrative "no toxics in toxic amounts" criterion while implementing numeric criteria for toxicity. There are two types of WET tests: acute and chronic. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth.

The Basin Plan specifies a narrative objective for toxicity, requiring that all waters be maintained free of toxic substances in concentrations that are lethal to or produce other detrimental responses by aquatic organisms. Detrimental response includes, but are not limited to, decreased growth rate, decreased reproductive success of resident or indicator species, and/or significant alterations in population, community ecology, or receiving water biota.

Order R4-2009-0126 contains acute toxicity limitations and monitoring requirements in accordance with the Basin Plan, in which the acute toxicity objective for discharges dictates that the average survival in undiluted effluent for any three consecutive 96-hour static or continuous flow bioassay tests shall be at least 90%, with no single test having less than 70% survival. No discharges occurred during the term of Order R4-2009-0126, and therefore no representative acute WET test results are available to determine whether discharges from the Facility would exceed the Basin Plan objectives for acute toxicity.

In addition to the Basin Plan requirements, Section 4 of the SIP states that a chronic toxicity effluent limitation is required in permits for all discharges that will cause, have the reasonable potential to cause, or contribute to chronic toxicity in receiving waters. For this discharge, chronic toxicity requirements will be protective of acute toxicity as well. Because the types of fuels stored at the Facility include a multitude of chemicals, which individually may not be present in toxic concentrations, but could exhibit aggregate toxic effects as a whole, this Order does not require acute toxicity monitoring, but requires chronic toxicity monitoring for the effluent at Discharge Points 001, 002, and 003.

The WET testing requirements in this Order are based on U.S. EPA's 2010 Test of Significant Toxicity (TST) 2-concentration hypothesis testing approach in *National Pollutant Discharge Elimination System Test of Significant Toxicity Implementation Document* (EPA 833-R-10-003, 2010) as an improved hypothesis-testing tool to evaluate data from U.S. EPA's toxicity test methods. The TST hypothesis testing approach more reliably identifies toxicity—in relation to the chronic (0.25 or more) and acute (0.20 or more) mean responses of regulatory management concern—than the current NOEC hypothesis-testing approach. TST results are also more transparent than the point estimate model approach used for acute toxicity that is not designed to address the question of statistical uncertainty around the modeled toxicity test result in relation to the effect level of concern. The TST is the superior approach for addressing statistical uncertainty when used in combination with U.S. EPA's toxicity test methods and is implemented in federal permits issued by U.S. EPA Region 9.

The TST's null hypothesis for chronic toxicity is:

H0:Mean response (In-stream Waste Concentration (IWC) in % effluent) ≤ 0.75 mean response (Control).

Results obtained from a single-concentration chronic toxicity test are analyzed using the TST statistical approach and an acceptable level of chronic toxicity is demonstrated by rejecting the null hypothesis and reporting "Pass" or "P".

The chronic toxicity IWCs for Discharge Points 001, 002, and 003 are 100/(0+1) = 100 percent effluent.

The Regional Water Board has determined that chronic toxicity demonstrates reasonable potential based on Step 7 of the RPA procedure described in the SIP which states that other information may be considered to determine whether a WQBEL is needed. Such information includes, among other aspects, the facility type, the discharge type, and the potential toxic impacts of the discharge. The Facility has the potential to discharge a number of petroleum

product-related pollutants (e.g., benzene, ethylbenzene, toluene, and xylene), such that instances of toxicity may result in widespread impacts. A chronic toxicity effluent limitation is included in this Order to ensure that the receiving water meets the Basin Plan narrative water quality objective for toxicity.

The MDEL for chronic toxicity is exceeded and a violation will be flagged when a chronic toxicity test, analyzed using the TST statistical approach, results in "Fail" and the "Percent Effect" is ≥0.50.

D. Final Effluent Limitation Considerations

1. Anti-Backsliding Requirements

Sections 402(o) and 303(d)(4) of the CWA and federal regulations at 40 C.F.R. section 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. This permit includes all effluent limitations established in Order No. R4-2009-0126, with the exception of lead and copper for Discharge Points 001, 002, and 003. The Regional Water Board has determined that the numeric effluent limitations continue to be applicable to the Facility. This Order also includes more stringent effluent limitations for lead, and additional effluent limitations for zinc, 4,4'-DDT, and PCBs, based on the Harbor Toxics TMDL, and for bacteria to ensure compliance with Basin Plan objectives.

This Order includes revised effluent limitations for copper that are less stringent than those in Order R4-2009-0126. The new limitations were developed to be consistent with the WLA provided in the Harbor Toxics TMDL. The WLA for copper was developed based on the chronic saltwater criteria. Hence, that criterion was used to develop the daily maximum limit included for copper. That limit is less stringent than the limit included in Order R4-2009-0126. The new limit is based on new data and information used to develop the Harbor Toxics TMDL. The new data and information provide the basis for the decision that compliance with limits based on this information and data will result in the Los Angeles and Long Beach Harbor waters' attainment with the beneficial uses.

2. Antidegradation Policies

Section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16. Resolution 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan and the SIP implement, and incorporate by reference, both the State and federal antidegradation policies. Compliance with these requirements will result in the use of best practicable treatment or control of the discharge.

As discussed in section IV.D.1 of this Fact Sheet, this Order contains effluent limitations for copper that are less stringent than those in Order R4-2009-0126. These limitations are based on TMDL WLAs that were adopted into the Basin Plan as a means to achieve water quality objectives within the receiving water. The new effluent limitations are consistent with the TMDL and the cumulative effect of all revised effluent limitations stemming from the TMDL is that the receiving water will attain water quality objectives. As such the relaxed effluent limitations are consistent with Resolution No. 68-16.

3. Mass-based Effluent Limitations

Generally, mass-based effluent limitations ensure that proper treatment, and not dilution, is employed to comply with the final effluent concentration limitations. 40 C.F.R. 122.45(f)(1) requires that all permit limitations, standards or prohibitions be expressed in terms of mass units except under the following conditions: (1) for pH, temperature, radiation or other pollutants that cannot appropriately be expressed by mass limitations; (2) when applicable standards or limitations are expressed in terms of other units of measure; or (3) if in establishing technology-based permit limitation on a case-by-case basis limitation based on mass are infeasible because the mass or pollutant cannot be related to a measure of production.

Mass-based effluent limitations are established using the following formula:

Mass (lbs/day) = flow rate (MGD) x 8.34 x effluent limitation (mg/L)

where: Mass = mass limitation for a pollutant (lbs/day)

Effluent limitation = concentration limit for a pollutant (mg/L)

Flow rate = discharge flow rate (MGD)

According to the Report of Waste Discharge submitted by the Discharger, the maximum flow from each of the three tank farm areas is 0.5 MGD. As such, the mass-based effluent limitations applicable to each of the respective discharge points (Discharge Points 001, 002, and 003) will be based on 0.5 MGD.

4. Stringency of Requirements for Individual Pollutants

This Order contains both technology-based and water quality-based effluent limitations for individual pollutants. The technology-based effluent limitations consist of restrictions on BOD, TSS, oil and grease, sulfides, phenols, benzene, ethylbenzene, toluene, xylene, and total petroleum hydrocarbons. Restrictions on these pollutants are discussed in Section IV.B of the Fact Sheet. This Order's technology-based pollutant restrictions implement the minimum, applicable federal technology-based requirements.

WQBELs have been derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives have been approved pursuant to federal law and are the applicable federal water quality standards. To the extent that toxic pollutant WQBELs were derived from the CTR, the CTR is the applicable standard pursuant to 40 C.F.R. section 131.38. The procedures for calculating the individual water quality-based effluent limitations for priority pollutants are based on the CTR implemented by the SIP, which was approved by U.S. EPA on May 18, 2000. Most beneficial uses and water quality objectives contained in the Basin Plan were approved under state law and submitted to and approved by U.S. EPA prior to May 30, 2000. Any water quality objectives and beneficial uses submitted to U.S. EPA prior to May 30, 2000, but not approved by U.S. EPA before that date, are nonetheless "applicable water quality standards for purposes of the CWA" pursuant to 40 C.F.R. section 131.21(c)(1). The remaining water quality objectives and beneficial uses implemented by this Order were approved by U.S. EPA and are applicable water quality standards pursuant to section 131.21(c)(2). Collectively, this Order's restrictions on individual pollutants are no more stringent than required to implement the requirements of the CWA.

5. Summary of Final Effluent Limitations

Table F-5. Summary of Final Effluent Limitations at Discharge Points 001, 002, and 003

			Effluent Li	mitations			
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum/Maximum	Performance Goal	Basis ¹	
Biochemical Oxygen	mg/L		30				
Demand (BOD) (5- day @ 20℃)	lbs/day ²		125			E, BPJ	
Total Suspended	mg/L		75			E, BPJ	
Solids (TSS)	lbs/day ²		313			L, DI U	
Oil and Grease	mg/L		15			E, BPJ	
Oli and Grease	lbs/day ²		63			L, Di U	
Total Phenols	mg/L		1.0			E, BPJ	
Total i Heliois	lbs/day ²		4.0			L, DI U	
Sulfides, Total (as S)	mg/L		0.1			E, BPJ	
Sullides, Total (as 3)	lbs/day ²		0.4			E, DFJ	
Donzono	μg/L		1			E DD1	
Benzene	lbs/day ²		0.004			E, BPJ	
Cth. db an zon a	μg/L		10			E DDI	
Ethylbenzene	lbs/day ²		0.04			E, BPJ	
Toluene	μg/L		10			E DDI	
roluerie	lbs/day ²		0.04			E, BPJ	
Videos	μg/L		10			E, BPJ	
Xylene	lbs/day ²		0.04				
Total Petroleum	μg/L		100			E DD.	
Hydrocarbons	lbs/day ²		0.4			E, BPJ	
pH	standard units			6.5/8.5		BP	
Temperature	°F			86°F(Maximum)		BP, TP	
Chronic Toxicity ³	Pass or Fail, % Effect	Pass ⁴	Pass or % Effect<50			ВР	
Arsenic, Total	μg/L		10			_	
Recoverable	lbs/day ²		0.04			E	
Cadmium, Total	μg/L		5				
Recoverable	lbs/day ²		0.02			E	
	μg/L		50				
Chromium (VI)	lbs/day ²		0.2			E	
Copper, Total	μg/L		6			TMDL	
Recoverable	lbs/day ²		0.03				
Lead, Total	μg/L		14				
Recoverable	lbs/day ²		0.06			TMDL	
Mercury, Total	μg/L		2			_	
Recoverable	lbs/day ²		0.008			E	
Selenium, Total	μg/L		10				
Recoverable	lbs/day ²		0.04			E	

			Effluent Li	mitations		
Parameter	Units	Average Monthly	Maximum Daily	Instantaneous Minimum/Maximum	Performance Goal	Basis ¹
Silver, Total	μg/L		50			Е
Recoverable	lbs/day ²		0.2			
Zinc, Total	μg/L		141			TMDL
Recoverable	lbs/day ²		0.6			TIVIDL
4.4'-DDT	μg/L		0.0012			TMDL
4,4 -DD1	lbs/day ²		5.0 x 10 ⁻⁶			INDL
Total PCBs ⁶	μg/L		0.00034			TMDL
Total PGBS	lbs/day ²		1.4 x 10 ⁻⁶			TIVIDL
PAHs						
Benzo(a)pyrene ^{7,9}	μg/L				0.049 ^{5,8}	
Chrysene ^{7,9}	μg/L			1	$0.049^{5,8}$	

E = Existing Order; BPJ = Best Professional Judgment; BP = Basin Plan; TMDL = Total Maximum Daily Load (Harbor Toxics); CTR = California Toxic Rule; SIP = State Implementation Policy

Mass loading limitations are based on a maximum flow of 0.5 MGD and are calculated as follows: Flow (MGD) x Concentration (mg/L) x 8.34 (conversion factor) = lbs/day. The mass loading limitations are applicable to Discharge Points 001, 002 and 003.

The median monthly effluent limitation (MMEL) shall be reported as "Pass" or "Fail". The maximum daily effluent limitation (MDEL) shall be reported as "Pass" or "Fail". The MMEL for chronic toxicity shall only apply when there is a discharge more than one day in a calendar month period. During such calendar months, up to three independent toxicity tests are required when one toxicity test results in a "Fail".

⁴ This is a median monthly effluent limitation.

Total PCBs (polychlorinated biphenyls) means the sum of chlorinated biphenyls whose analytical characteristics resembles those of Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260.

Samples analyzed must be unfiltered samples.

Based on CTR criteria calculated using SIP procedures. This performance goal is not an enforceable effluent limitation. Rather, it acts as a trigger to determine when sediment monitoring is required for this compound (see footnote 9).

During each reporting period, if effluent monitoring results exceed both a TSS effluent limit and a CTR TMDL-based effluent limitation or performance goal for copper, lead, zinc, 4,4'-DDT, total PCBs, or PAHs (benzo(a)pyrene and chrysene) as specified in Table 4 of this Order, then the Discharger has not demonstrated compliance with the interim sediment allocations (Monitoring Thresholds, Table 5, Page 11, of this Order) specified by the Harbor Toxics TMDL, Resolution No. R11-008 (page 11, Item 2) and the Discharger is required to implement the effluent sediment monitoring program for that priority pollutant. The Discharger shall begin the effluent sediment monitoring program during the first discharge event following the effluent exceedance. An effluent sediment monitoring result at or below the interim sediment allocations (Monitoring Thresholds) in Table 5 of this Order, demonstrates compliance with the interim sediment allocation and additional effluent sediment monitoring for those pollutants is not required. An effluent sediment monitoring result that exceeds the interim sediment allocation requires additional effluent sediment monitoring during discharge but not more frequently than once per year until the three-year average concentration for effluent sediment monitoring results is at or below the interim sediment allocation.

E. Interim Effluent Limitations

Not Applicable

F. Land Discharge Specifications

Not Applicable

G. Recycling Specifications

Not Applicable

V. RATIONALE FOR RECEIVING WATER LIMITATIONS

The receiving water limitations in this Order are based upon the water quality objectives contained in the Basin Plan. As such, they are a required part of the Order.

A. Surface Water

The Basin Plan contains numeric and narrative water quality objectives applicable to all surface waters within the Los Angeles Region. Water quality objectives include an objective to maintain the high quality waters pursuant to federal regulations (40 C.F.R. section 131.12) and State Water Board Resolution No. 68-16. Receiving water limitations in this Order are included to ensure protection of beneficial uses of the receiving water. If there is reasonable potential or a U.S. EPA-approved TMDL WLA, then WQBELs are included in this Order to ensure protection of water quality standards.

B. Groundwater

Not Applicable

VI. RATIONALE FOR PROVISIONS

A. Standard Provisions

Standard Provisions, which apply to all NPDES permits in accordance with 40 C.F.R. section 122.41, and additional conditions applicable to specified categories of permits in accordance with 40 C.F.R. section 122.42, are provided in Attachment D. The discharger must comply with all standard provisions and with those additional conditions that are applicable under section 122.42

Sections 122.41(a)(1) and (b) through (n) of 40 C.F.R. establish conditions that apply to all state-issued NPDES permits. These conditions must be incorporated into the permits either expressly or by reference. If incorporated by reference, a specific citation to the regulations must be included in the Order. Section 123.25(a)(12) of 40 C.F.R. allows the state to omit or modify conditions to impose more stringent requirements. In accordance with 40 C.F.R. section 123.25, this Order omits federal conditions that address enforcement authority specified in 40 C.F.R. sections 122.41(j)(5) and (k)(2) because the enforcement authority under the Water Code is more stringent. In lieu of these conditions, this Order incorporates by reference Water Code section 13387(e).

B. Special Provisions

1. Reopener Provisions

These provisions are based on section 123 and the previous Order. The Regional Water Board may reopen the permit to modify permit conditions and requirements. Causes for modifications include the promulgation of new federal regulations, modification in toxicity requirements, or adoption of new regulations by the State Water Board or Regional Water Board, including revisions to the Basin Plan.

2. Special Studies and Additional Monitoring Requirements

- a. **Initial Investigation Toxicity Reduction Evaluation (TRE) Workplan.** This provision is based on section 4 of the SIP, Toxicity Control Provisions.
- b. Monitoring Thresholds Based on Sediment Interim and Final Concentration-based Allocations in the Harbor Toxics TMDL for Sediment Monitoring of the Effluent. This Order implements the Harbor Toxics TMDL's interim sediment allocations (Long Beach Inner Harbor) for copper, lead, zinc, DDT, PAHs, and PCBs as monitoring thresholds. Compliance with these thresholds shall be demonstrated in accordance with Footnote 4 to Table 4 of this Order which includes effluent limits for TSS and the targeted pollutants. If there is a discharge, the Discharger is required to collect sufficient sample at least once during the permit term to analyze the sediment in the effluent volume directly. Regardless of these monitoring thresholds, the Discharger shall ensure that effluent concentrations and mass discharges do not exceed levels that can be attained by performance of the Facility's treatment technologies or controls existing at the time of permit issuance, reissuance, or modification.
- c. Harbor Toxics TMDL Water Column, Sediment, and Fish Tissue Monitoring for the Great Los Angeles and Long Beach Harbor Waters Compliance Monitoring Program. This provision implements the Compliance Monitoring Program as required in the Harbor Toxics TMDL. The Compliance Monitoring Program includes water column monitoring, sediment monitoring and fish tissue monitoring at monitoring stations in the Long Beach Inner Harbor. The Discharger may join a collaboration group or develop a site specific plan to comply with this requirement.

3. Best Management Practices and Pollution Prevention

- a. Storm Water Pollution Prevention, Best Management Practices, and Spill Contingency Plans
 - i. Storm Water Pollution Prevention Plan (SWPPP). This Order requires the Discharger to update, as necessary, and continue to implement a SWPPP. The SWPPP will outline site-specific management processes for minimizing storm water runoff contamination and for preventing contaminated storm water runoff from being discharged directly into the receiving water. At a minimum, the management practices should ensure that raw materials and chemicals do not come into contact with storm water. SWPPP requirements are included as Attachment G, based on 40 CFR 122.44(k).
 - iii. Best Management Practices Plan (BMPP). This Order requires the Discharger to develop and implement the BMPP. The BMPP may be included as a component of the SWPPP. The purpose of the BMPP is to establish site-specific procedures that ensure proper operation and maintenance of equipment, to ensure that unauthorized non-storm water discharges (i.e., spills) do not occur at the Facility. The BMPP shall incorporate the requirements contained in Attachment G. Attachment G requires a discussion on the effectiveness of each BMP to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges.
 - iii. Spill Contingency Plan (SCP). This Order requires the Discharger to develop and implement a SCP to control the discharge of pollutants. The SCP shall include a technical report on the preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events at the site. This provision is included in this Order to minimize and control the amount of pollutants discharged in case of a spill. The SCP shall be site specific and shall cover

all areas of the Facility. A Spill Prevention, Control, and Countermeasure (SPCC) Plan may satisfy this requirement.

4. Construction, Operation, and Maintenance Specifications

This provision is based on the requirements of section 122.41(e).

5. Special Provisions for Municipal Facilities (POTW's Only)

Not Applicable

6. Other Special Provisions

Not Applicable

7. Compliance Schedules

Not Applicable

VII. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

CWA section 308 and 40 C.F.R. sections 122.41(h), (j)-(l), 122.44(i), and 122.48 require that all NPDES permits specify monitoring and reporting requirements. Water Code sections 13267 and 13383 also authorize the Regional Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. The Monitoring and Reporting Program (MRP), Attachment E of this Order establishes monitoring, reporting, and recordkeeping requirements that implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements contained in the MRP for this facility.

A. Influent Monitoring

Not Applicable

B. Effluent Monitoring

1. Discharge Points 001, 002, and 003

- a. Monitoring for pollutants expected to be present in the discharge will be required as established in the MRP (Attachment E). To demonstrate compliance with established effluent limitations, the Order includes monitoring requirements for parameters for which effluent limitations have been established at a frequency of once per discharge event.
- b. Consistent with the requirements in Order R4-2008-0126 and Monitoring and Reporting Program (MRP) No. 6802, monitoring for ammonia, turbidity, and settleable solids is required to assess compliance with receiving water limitations.
- c. The monitoring frequency for nickel and thallium is once per year consistent with the monitoring requirements for the remaining priority pollutants (see VII.B.d below).
- d. The SIP states that the Regional Water Board will require periodic monitoring for pollutants for which criteria or objectives apply and for which no effluent limitations have been established. This Order requires the Discharger to conduct annual monitoring for the remaining CTR priority pollutants. The Regional Water Board will use the additional data to conduct an RPA and determine if additional WQBELs are required. The Regional Water Board may reopen the permit to incorporate additional effluent limitations and requirements, if necessary.

C. Whole Effluent Toxicity Testing Requirements

Whole effluent toxicity (WET) protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. An acute toxicity test is conducted over a short time

period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth. For this permit, chronic toxicity in the discharge is limited and evaluated at Discharge Points 001, 002, and 003 using USEPA's 2010 TST hypothesis testing approach. The chronic toxicity effluent limitations are as stringent as necessary to protect the receiving water beneficial uses from chronic toxicity.

For this permit, chronic toxicity in the discharge is limited and evaluated using U.S. EPA's 2010 TST hypothesis testing approach.

D. Receiving Water Monitoring

1. Surface Water

This Order includes receiving water limitations and therefore, monitoring requirements are included in the MRP to determine compliance with the receiving water limitations established in Limitations and Discharge Requirements. The Facility is also required to perform general observations of the receiving water when discharges occur and report the observations in the monitoring report. Attention shall be given to the presence or absence of: floating or suspended matter, discoloration, aquatic life, visible film, sheen or coating, and fungi, slime, or objectionable growths.

According to the SIP, the Discharger is required to monitor the upstream receiving water for the CTR priority pollutants, to determine reasonable potential. Accordingly, the Regional Water Board is requiring that the Discharger conduct upstream receiving water monitoring of the CTR priority pollutants at Monitoring Location RSW-001. The Discharger must analyze temperature, pH, ammonia, and salinity of the upstream receiving water at the same time the samples are collected for priority pollutant analysis. The requirement for monitoring for hardness in the receiving water has been discontinued as the applicable saltwater water quality criteria for metals are not hardness dependent.

2. Groundwater

Not Applicable

E. Other Monitoring Requirements

1. Storm Water Monitoring Requirements

Because the discharge is comprised primarily of storm water runoff that occurs only during heavy rainfall events, the Discharger is required to measure and record the rainfall each day of the month. The Discharger is also required to conduct visual observations of all storm water discharges in the vicinity of the discharge to observe the presence of floating and suspended materials, oil and grease, discoloration, turbidity, and odor. These requirements are being retained from Order R4-2009-0126.

2. Sediment Monitoring of the Effluent

The Harbor Toxics TMDL requires attainment with the TMDL's interim sediment allocations. This Order implements this requirement in a framework of effluent limits, effluent performance goals, sediment monitoring thresholds, and effluent monitoring requirements. Attainment with the interim sediment allocations shall be demonstrated, as specified in Footnote 2 to Table 4, of this Order. These requirements will ensure that discharges from the Facility do not contribute to contaminant sediment concentrations in the Long Beach Inner Harbor.

3. Regional Monitoring

Monitoring is required to determine compliance with the assigned wasteload and load allocations specified in the Harbor Toxics TMDL. The Discharger may join a group of stakeholders in the development of Regional Monitoring program(s) to address pollutants as specified in the Harbor Toxics TMDL or the Discharger may develop a site specific monitoring plan.

VIII. PUBLIC PARTICIPATION

The Regional Water Board has considered the issuance of WDR's that will serve as an NPDES permit. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDR's and has encouraged public participation in the WDR adoption process.

A. Notification of Interested Parties

The Regional Water Board notified the Discharger and interested agencies and persons of its intent to prescribe WDR's for the discharge and provided an opportunity to submit written comments and recommendations. Notification was provided to all interested parties on the Regional Water Board's interested parties list by e-mail.

The public had access to the agenda and any changes in dates and locations through the Regional Water Board's website at:

http://www.waterboards.ca.gov/losangeles

B. Written Comments

Interested persons were invited to submit written comments concerning tentative WDR's as provided through the notification process. Comments were required to be submitted either in person or by mail to the Executive Office at the Regional Water Board at 320 West 4th Street, Suite 200, Los Angeles, CA 90013, or by email to losangeles@waterboards.ca.gov with a copy to casandra.owens@waterboards.ca.gov.

To be fully responded to by staff and considered by the Regional Water Board, the written comments were due at the Regional Water Board office by 5:00 p.m. on September 10, 2015.

C. Public Hearing

The **Regional Water Board** held a public hearing on the tentative WDR's during its regular Board meeting on the following date and time and at the following location:

Date: October 8, 2015

Time: 9: a.m.

Location: Metropolitan Water District of Southern California, Board Room

700 North Alameda Street Los Angeles, California

Interested persons were invited to attend. At the public hearing, the Regional Water Board heard testimony pertinent to the discharge, WDR's, and permit. For accuracy of the record, important testimony was requested in writing.

D. Waste Discharge Requirements Petitions

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public notices/petitions/water quality

or will be provided upon request.

Any aggrieved person may petition the State Water Board to review the decision of the Regional Water Board regarding the final WDR's. The petition must be received by the State Water Board at the following address within 30 calendar days of the Regional Water Board's action:

State Water Resources Control Board Office of Chief Counsel P.O. Box 100, 1001 I Street Sacramento, CA 95812-0100

E. Information and Copying

The Report of Waste Discharge, other supporting documents, and comments received are on file and may be inspected at the address above at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling 213-576-6600.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDR's and NPDES permit should contact the Regional Water Board, reference this facility, and provide a name, address, and phone number.

G. Additional Information

Requests for additional information or questions regarding this order should be directed to Mazhar Ali at 213-576-6652.

ATTACHMENT G - STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

I. IMPLEMENTATION SCHEDULE

A storm water pollution prevention plan (SWPPP) shall be developed and submitted to the Regional Water Board within 90 days following the adoption of this Order. The SWPPP shall be implemented for each facility covered by this Permit within 10 days of approval from the Regional Water Board, or 6-months from the date of the submittal of the SWPPP to the Regional Water Board (whichever comes first).

II. OBJECTIVES

The SWPPP has two major objectives: (a) to identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges from the facility; and (b) to identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with industrial activities in storm water discharges and authorized non-storm water discharges. BMPs may include a variety of pollution prevention measures or other low-cost and pollution control measures. They are generally categorized as non-structural BMPs (activity schedules, prohibitions of practices, maintenance procedures, and other low-cost measures) and as structural BMPs (treatment measures, run-off controls, overhead coverage.) To achieve these objectives, facility operators should consider the five phase process for SWPPP development and implementation as shown in Table A.

The SWPPP requirements are designed to be sufficiently flexible to meet the needs of various facilities. SWPPP requirements that are not applicable to a facility should not be included in the SWPPP.

A facility's SWPPP is a written document that shall contain a compliance activity schedule, a description of industrial activities and pollutant sources, descriptions of BMPs, drawings, maps, and relevant copies or references of parts of other plans. The SWPPP shall be revised whenever appropriate and shall be readily available for review by facility employees or Regional Water Board inspectors.

III. PLANNING AND ORGANIZATION

A. Pollution Prevention Team

The SWPPP shall identify a specific individual or individuals and their positions within the facility organization as members of a storm water pollution prevention team responsible for developing the SWPPP, assisting the facility manager in SWPPP implementation and revision, and conducting all monitoring program activities required in Attachment E of this Permit. The SWPPP shall clearly identify the Permit related responsibilities, duties, and activities of each team member. For small facilities, storm water pollution prevention teams may consist of one individual where appropriate.

B. Review Other Requirements and Existing Facility Plans

The SWPPP may incorporate or reference the appropriate elements of other regulatory requirements. Facility operators should review all local, State, and Federal requirements that impact, complement, or are consistent with the requirements of this General permit. Facility operators should identify any existing facility plans that contain storm water pollutant control measures or relate to the requirements of this Permit. As examples, facility operators whose facilities are subject to Federal Spill Prevention Control and Countermeasures' requirements should already have instituted a plan to control spills of certain hazardous materials. Similarly,

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facility operators whose facilities are subject to air quality related permits and regulations may already have evaluated industrial activities that generate dust or particulates.

IV. SITE MAP

The SWPPP shall include a site map. The site map shall be provided on an $8-\frac{1}{2} \times 11$ inch or larger sheet and include notes, legends, and other data as appropriate to ensure that the site map is clear and understandable. If necessary, facility operators may provide the required information on multiple site maps.

TABLE A FIVE PHASES FOR DEVELOPING AND IMPLEMENTING INDUSTRIAL STORM WATER POLLUTION PREVENTION PLANS

PLANNING AND ORGANIZATION

Form Pollution Prevention Team Review other plans

ASSESSMENT PHASE

Develop a site map Identify potential pollutant sources Inventory of materials and chemicals List significant spills and leaks Identify non-storm water discharges Assess pollutant risks

BEST MANAGEMENT PRACTICES IDENTIFICATION PHASE

Non-structural BMPs Structural BMPs

Select activity and site-specific BMPs

IMPLEMENTATION PHASE

Train employees Implement BMPs

Conduct recordkeeping and reporting

EVALUATION / MONITORING

Conduct annual site evaluation Review monitoring information Evaluate BMPs Review and revise SWPPP The following information shall be included on the site map:

- A. The facility boundaries; the outline of all storm water drainage areas within the facility boundaries; portions of the drainage area impacted by run-on from surrounding areas; and direction of flow of each drainage area, on-site surface water bodies, and areas of soil erosion. The map shall also identify nearby water bodies (such as rivers, lakes, and ponds) and municipal storm drain inlets where the facility's storm water discharges and authorized non-storm water discharges may be received.
- **B.** The location of the storm water collection and conveyance system, associated points of discharge, and direction of flow. Include any structural control measures that affect storm water discharges, authorized non-storm water discharges, and run-on. Examples of structural control measures are catch basins, berms, detention ponds, secondary containment, oil/water separators, diversion barriers, etc.
- C. An outline of all impervious areas of the facility, including paved areas, buildings, covered storage areas, or other roofed structures.
- **D.** Locations where materials are directly exposed to precipitation and the locations where significant spills or leaks identified in section VI.A.4. below have occurred.
- E. Areas of industrial activity. This shall include the locations of all storage areas and storage tanks, shipping and receiving areas, fueling areas, vehicle and equipment storage/maintenance areas, material handling and processing areas, waste treatment and disposal areas, dust or particulate generating areas, cleaning and rinsing areas, and other areas of industrial activity which are potential pollutant sources.

V. LIST OF SIGNIFICANT MATERIALS

The SWPPP shall include a list of significant materials handled and stored at the site. For each material on the list, describe the locations where the material is being stored, received, shipped, and handled, as well as the typical quantities and frequency. Materials shall include raw materials, intermediate products, final or finished products, recycled materials, and waste or disposed materials.

VI. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

- A. The SWPPP shall include a narrative description of the facility's industrial activities, as identified in section IV.E. above, associated potential pollutant sources, and potential pollutants that could be discharged in storm water discharges or authorized non-storm water discharges. At a minimum, the following items related to a facility's industrial activities shall be considered:
 - a. Industrial Processes. Describe each industrial process, the type, characteristics, and quantity of significant materials used in or resulting from the process, and a description of the manufacturing, cleaning, rinsing, recycling, disposal, or other activities related to the process. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.
 - b. Material Handling and Storage Areas. Describe each handling and storage area, type, characteristics, and quantity of significant materials handled or stored, description of the shipping, receiving, and loading procedures, and the spill or leak prevention and response procedures. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.
 - c. Dust and Particulate Generating Activities. Describe all industrial activities that generate dust or particulates that may be deposited within the facility's boundaries and identify their discharge locations; the characteristics of dust and particulate pollutants;

the approximate quantity of dust and particulate pollutants that may be deposited within the facility boundaries; and a description of the primary areas of the facility where dust and particulate pollutants would settle.

d. Significant Spills and Leaks. Describe materials that have spilled or leaked in significant quantities in storm water discharges or non-storm water discharges since April 17, 1994. Include toxic chemicals (listed in 40 CFR, part 302) that have been discharged to storm water as reported on U.S. Environmental Protection Agency (U.S. EPA) Form R, and oil and hazardous substances in excess of reportable quantities (see 40 Code of Federal Regulations [CFR], parts 110, 117, and 302).

The description shall include the type, characteristics, and approximate quantity of the material spilled or leaked, the cleanup or remedial actions that have occurred or are planned, the approximate remaining quantity of materials that may be exposed to storm water or non-storm water discharges, and the preventative measures taken to ensure spill or leaks do not reoccur. Such list shall be updated as appropriate during the term of this Permit.

e. Non-Storm Water Discharges. Facility operators shall investigate the facility to identify all non-storm water discharges and their sources. As part of this investigation, all drains (inlets and outlets) shall be evaluated to identify whether they connect to the storm drain system.

All non-storm water discharges shall be described. This shall include the source, quantity, frequency, and characteristics of the non-storm water discharges and associated drainage area.

Non-storm water discharges that contain significant quantities of pollutants or that do not meet the conditions provided in Special Conditions D of the storm water general permit are prohibited by this Permit (Examples of prohibited non-storm water discharges are contact and non-contact cooling water, rinse water, wash water, etc.). Non-storm water discharges that meet the conditions provided in Special Condition D of the general storm water permit are authorized by this Permit. The SWPPP must include BMPs to prevent or reduce contact of non-storm water discharges with significant materials or equipment.

- f. Soil Erosion. Describe the facility locations where soil erosion may occur as a result of industrial activity, storm water discharges associated with industrial activity, or authorized non-storm water discharges.
- B. The SWPPP shall include a summary of all areas of industrial activities, potential pollutant sources, and potential pollutants. This information should be summarized similar to Table B. The last column of Table B, "Control Practices", should be completed in accordance with section VIII. below.

VII. ASSESSMENT OF POTENTIAL POLLUTANT SOURCES

- **A.** The SWPPP shall include a narrative assessment of all industrial activities and potential pollutant sources as described in section VI above to determine:
 - Which areas of the facility are likely sources of pollutants in storm water discharges and authorized non-storm water discharges, and
 - Which pollutants are likely to be present in storm water discharges and authorized nonstorm water discharges. Facility operators shall consider and evaluate various factors when performing this assessment such as current storm water BMPs; quantities of significant materials handled, produced, stored, or disposed of; likelihood of exposure to

storm water or authorized non-storm water discharges; history of spill or leaks; and runon from outside sources.

B. Facility operators shall summarize the areas of the facility that are likely sources of pollutants and the corresponding pollutants that are likely to be present in storm water discharges and authorized non-storm water discharges.

Facility operators are required to develop and implement additional BMPs as appropriate and necessary to prevent or reduce pollutants associated with each pollutant source. The BMPs will be narratively described in section VIII below.

VIII. STORM WATER BEST MANAGEMENT PRACTICES

The SWPPP shall include a narrative description of the storm water BMPs to be implemented at the facility for each potential pollutant and its source identified in the site assessment phase (sections A.VI. and VII. above). The BMPs shall be developed and implemented to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Each pollutant and its source may require one or more BMPs. Some BMPs may be implemented for multiple pollutants and their sources, while other BMPs will be implemented for a very specific pollutant and its source.

TABLE B

EXAMPLE ASSESSMENT OF POTENTIAL POLLUTION SOURCES AND CORRESPONDING BEST MANAGEMENT PRACTICES SUMMARY

Activity	Pollutant Source	Pollutant	Best Management Practices
Fueling	Spills and leaks during	fuel oil	Use spill and overflow protection.
	delivery.		
			Minimize run-on of storm water into the
	Spills caused by		fueling area.
	topping off fuel tanks.		
			Cover fueling area.
	Hosing or washing		
	down fuel oil fuel area.		Use dry cleanup methods rather than hosing
			down area.
	Leaking storage tanks.		Implement proper spill prevention control program.
	Rainfall running off		Implement adequate preventative
	fuel oil, and		maintenance program to preventive tank and
	rainfall running onto		line leaks.
			Inspect fueling areas regularly to detect
	and on rooming aroun		problems before they occur.
			Train employees on proper fueling, cleanup, and spill response techniques.
	,	Fueling Spills and leaks during delivery. Spills caused by topping off fuel tanks. Hosing or washing down fuel oil fuel area.	Fueling Spills and leaks during delivery. Spills caused by topping off fuel tanks. Hosing or washing down fuel oil fuel area. Leaking storage tanks. Rainfall running off fuel oil, and rainfall running onto

The description of the BMPs shall identify the BMPs as (1) existing BMPs, (2) existing BMPs to be revised and implemented, or (3) new BMPs to be implemented. The description shall also include a discussion on the effectiveness of each BMP to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. The SWPPP shall provide a summary of

all BMPs implemented for each pollutant source. This information should be summarized similar to Table B.

Facility operators shall consider the following BMPs for implementation at the facility:

A. Non-Structural BMPs

Non-structural BMPs generally consist of processes, prohibitions, procedures, schedule of activities, etc., that prevent pollutants associated with industrial activity from contacting with storm water discharges and authorized non-storm water discharges. They are considered low technology, cost-effective measures. Facility operators should consider all possible non-structural BMPs options before considering additional structural BMPs (see section VIII.B. below). Below is a list of non-structural BMPs that should be considered:

- Good Housekeeping. Good housekeeping generally consists of practical procedures to maintain a clean and orderly facility.
- 2. **Preventive Maintenance.** Preventive maintenance includes the regular inspection and maintenance of structural storm water controls (catch basins, oil/water separators, etc.) as well as other facility equipment and systems.
- Spill Response. This includes spill clean-up procedures and necessary clean-up equipment based upon the quantities and locations of significant materials that may spill or leak.
- Material Handling and Storage. This includes all procedures to minimize the potential for spills and leaks and to minimize exposure of significant materials to storm water and authorized non-storm water discharges.
- 5. Employee Training. This includes training of personnel who are responsible for (1) implementing activities identified in the SWPPP, (2) conducting inspections, sampling, and visual observations, and (3) managing storm water. Training should address topics such as spill response, good housekeeping, and material handling procedures, and actions necessary to implement all BMPs identified in the SWPPP. The SWPPP shall identify periodic dates for such training. Records shall be maintained of all training sessions held.
- Waste Handling/Recycling. This includes the procedures or processes to handle, store, or dispose of waste materials or recyclable materials.
- 7. Recordkeeping and Internal Reporting. This includes the procedures to ensure that all records of inspections, spills, maintenance activities, corrective actions, visual observations, etc., are developed, retained, and provided, as necessary, to the appropriate facility personnel.
- Erosion Control and Site Stabilization. This includes a description of all sediment and
 erosion control activities. This may include the planting and maintenance of vegetation,
 diversion of run-on and runoff, placement of sandbags, silt screens, or other sediment
 control devices, etc.
- Inspections. This includes, in addition to the preventative maintenance inspections identified above, an inspection schedule of all potential pollutant sources. Tracking and follow-up procedures shall be described to ensure adequate corrective actions are taken and SWPPPs are made.
- Quality Assurance. This includes the procedures to ensure that all elements of the SWPPP and Monitoring Program are adequately conducted.

B. Structural BMPs.

Where non-structural BMPs as identified in section VIII.A. above are not effective, structural BMPs shall be considered. Structural BMPs generally consist of structural devices that reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Below is a list of structural BMPs that should be considered:

- Overhead Coverage. This includes structures that provide horizontal coverage of materials, chemicals, and pollutant sources from contact with storm water and authorized non-storm water discharges.
- Retention Ponds. This includes basins, ponds, surface impoundments, bermed areas, etc. that do not allow storm water to discharge from the facility.
- Control Devices. This includes berms or other devices that channel or route run-on and runoff away from pollutant sources.
- 4. **Secondary Containment Structures.** This generally includes containment structures around storage tanks and other areas for the purpose of collecting any leaks or spills.
- Treatment. This includes inlet controls, infiltration devices, oil/water separators, detention ponds, vegetative swales, etc. that reduce the pollutants in storm water discharges and authorized non-storm water discharges.

IX. ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION

The facility operator shall conduct one comprehensive site compliance evaluation (evaluation) in each reporting period (July 1-June 30). Evaluations shall be conducted within 8-16 months of each other. The SWPPP shall be revised, as appropriate, and the revisions implemented within 90 days of the evaluation. Evaluations shall include the following:

- A. A review of all visual observation records, inspection records, and sampling and analysis results.
- **B.** A visual inspection of all potential pollutant sources for evidence of, or the potential for, pollutants entering the drainage system.
- C. A review and evaluation of all BMPs (both structural and non-structural) to determine whether the BMPs are adequate, properly implemented and maintained, or whether additional BMPs are needed. A visual inspection of equipment needed to implement the SWPPP, such as spill response equipment, shall be included.
- D. An evaluation report that includes, (i) identification of personnel performing the evaluation, (ii) the date(s) of the evaluation, (iii) necessary SWPPP revisions, (iv) schedule, as required in section X.E., for implementing SWPPP revisions, (v) any incidents of non-compliance and the corrective actions taken, and (vi) a certification that the facility operator is in compliance with this Permit. If the above certification cannot be provided, explain in the evaluation report why the facility operator is not in compliance with this General Permit. The evaluation report shall be submitted as part of the annual report, retained for at least five years, and signed and certified in accordance with Standard Provisions V.D.5 of Attachment D.

X. SWPPP GENERAL REQUIREMENTS

- A. The SWPPP shall be retained on site and made available upon request of a representative of the Regional Water Board and/or local storm water management agency (local agency) which receives the storm water discharges.
- **B.** The Regional Water Board and/or local agency may notify the facility operator when the SWPPP does not meet one or more of the minimum requirements of this section. As requested by the Regional Water Board and/or local agency, the facility operator shall submit

an SWPPP revision and implementation schedule that meets the minimum requirements of this section to the Regional Water Board and/or local agency that requested the SWPPP revisions. Within 14 days after implementing the required SWPPP revisions, the facility operator shall provide written certification to the Regional Water Board and/or local agency that the revisions have been implemented.

- C. The SWPPP shall be revised, as appropriate, and implemented prior to changes in industrial activities which (i) may significantly increase the quantities of pollutants in storm water discharge, (ii) cause a new area of industrial activity at the facility to be exposed to storm water, or (iii) begin an industrial activity which would introduce a new pollutant source at the facility.
- **D.** The SWPPP shall be revised and implemented in a timely manner, but in no case more than 90 days after a facility operator determines that the SWPPP is in violation of any requirement(s) of this Permit.
- E. When any part of the SWPPP is infeasible to implement due to proposed significant structural changes, the facility operator shall submit a report to the Regional Water Board prior to the applicable deadline that (i) describes the portion of the SWPPP that is infeasible to implement by the deadline, (ii) provides justification for a time extension, (iii) provides a schedule for completing and implementing that portion of the SWPPP, and (iv) describes the BMPs that will be implemented in the interim period to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Such reports are subject to Regional Water Board approval and/or modifications. Facility operators shall provide written notification to the Regional Water Board within 14 days after the SWPPP revisions are implemented.
- **F.** The SWPPP shall be provided, upon request, to the Regional Water Board. The SWPPP is considered a report that shall be available to the public by the Regional Water Board under Section 308(b) of the Clean Water Act.

ATTACHMENT H - STATE WATER BOARD MINIMUM LEVELS

The Minimum Levels (MLs) in this appendix (micrograms/liter (μ g/L)) are for use in reporting and compliance determination purposes in accordance with section 2.4 of the State Implementation Policy. These MLs were derived from data for priority pollutants provided by State certified analytical laboratories in 1997 and 1998. These MLs shall be used until new values are adopted by the State Water Board and become effective. The following tables (Tables 2a - 2d) present MLs for four major chemical groupings: volatile substances, semi-volatile substances, inorganics, and pesticides and PCBs.

Table 2a - VOLATILE SUBSTANCES*	GC	GCMS
1,1 Dichloroethane	0.5	1
1,1 Dichloroethylene	0.5	2
1,1,1 Trichloroethane	0.5	2
1,1,2 Trichloroethane	0.5	2
1,1,2,2 Tetrachloroethane	0.5	1
1,2 Dichlorobenzene (volatile)	0.5	2
1,2 Dichloroethane	0.5	2
1,2 Dichloropropane	0.5	1
1,3 Dichlorobenzene (volatile)	0.5	2
1,3 Dichloropropene (volatile)	0.5	2
1,4 Dichlorobenzene (volatile)	0.5	2
Acrolein	2.0	5
Acrylonitrile	2.0	2
Benzene	0.5	2
Bromoform	0.5	2
Methyl Bromide	1.0	2
Carbon Tetrachloride	0.5	2
Chlorobenzene	0.5	2
Chlorodibromo-methane	0.5	2
Chloroethane	0.5	2
Chloroform	0.5	2
Chloromethane	0.5	2
Dichlorobromo-methane	0.5	2
Dichloromethane	0.5	2
Ethylbenzene	0.5	2
Tetrachloroethylene	0.5	2
Toluene	0.5	2
Trans-1,2 Dichloroethylene	0.5	1
Trichloroethene	0.5	2
Vinyl Chloride	0.5	2

^{*}The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
Benzo (a) Anthracene	10	5		
1,2 Dichlorobenzene (semivolatile)	2	2		
1,2 Diphenylhydrazine		1		
1,2,4 Trichlorobenzene	1	5		
1,3 Dichlorobenzene (semivolatile)	2	1		
1,4 Dichlorobenzene (semivolatile)	2	1		
2 Chlorophenol	2	5		
2,4 Dichlorophenol	1	5		
2,4 Dimethylphenol	1	2		
2,4 Dinitrophenol	5	5		
2,4 Dinitrotoluene	10	5		
2,4,6 Trichlorophenol	10	10		
2,6 Dinitrotoluene		5		
2- Nitrophenol		10		
2-Chloroethyl vinyl ether	1	1		
2-Chloronaphthalene		10		
3,3' Dichlorobenzidine		5		
Benzo (b) Fluoranthene		10	10	
3-Methyl-Chlorophenol	5	1	1	
4,6 Dinitro-2-methylphenol	10	5		
4- Nitrophenol	5	10		
4-Bromophenyl phenyl ether	10	5		
4-Chlorophenyl phenyl ether		5		
Acenaphthene	1	1	0.5	
Acenaphthylene		10	0.2	
Anthracene		10	2	
Benzidine		5	_	
Benzo(a) pyrene		10	2	
Benzo(g,h,i)perylene		5	0.1	
Benzo(k)fluoranthene		10	2	
bis 2-(1-Chloroethoxyl) methane		5	_	
bis(2-chloroethyl) ether	10	1		
bis(2-Chloroisopropyl) ether	10	2		
bis(2-Ethylhexyl) phthalate	10	5		
Butyl benzyl phthalate	10	10		
Chrysene		10	5	
di-n-Butyl phthalate		10		
di-n-Octyl phthalate		10		
Dibenzo(a,h)-anthracene		10	0.1	
Diethyl phthalate	10	2	Ŭ.,	
Dimethyl phthalate	10	2	1	
Fluoranthene	10	1	0.05	
Fluorene	1	10	0.1	
Hexachloro-cyclopentadiene	5	5	J	
Hexachlorobenzene	5	1		
Hexachlorobutadiene	5	1		
Hexachloroethane	5	1	1	
Indeno(1,2,3,cd)-pyrene	 	10	0.05	
Isophorone	10	1	0.00	
N-Nitroso diphenyl amine	10	1		

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Table 2b - SEMI-VOLATILE SUBSTANCES*	GC	GCMS	LC	COLOR
N-Nitroso-dimethyl amine	10	5		
N-Nitroso -di n-propyl amine	10	5		
Naphthalene	10	1	0.2	
Nitrobenzene	10	1		
Pentachlorophenol	1	5		
Phenanthrene		5	0.05	
Phenol **	1	1		50
Pyrene		10	0.05	

- * With the exception of phenol by colorimetric technique, the normal method-specific factor for these substances is 1,000; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 1,000.
- ** Phenol by colorimetric technique has a factor of 1.

Table 2c – INORGANICS*	FAA	GFAA	ICP	ICPMS	SPGFAA	HYDRIDE	CVAA	COLOR	DCP
Antimony	10	5	50	0.5	5	0.5			1,000
Arsenic		2	10	2	2	1		20	1,000
Beryllium	20	0.5	2	0.5	1				1,000
Cadmium	10	0.5	10	0.25	0.5				1,000
Chromium (total)	50	2	10	0.5	1				1,000
Chromium VI	5							10	
Copper	25	5	10	0.5	2				1,000
Cyanide								5	
Lead	20	5	5	0.5	2				10,000
Mercury				0.5			0.2		
Nickel	50	5	20	1	5				1,000
Selenium		5	10	2	5	1			1,000
Silver	10	1	10	0.25	2				1,000
Thallium	10	2	10	1	5				1,000
Zinc	20		20	1	10				1,000

^{*} The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

Table 2d – PESTICIDES – PCBs*	GC
4,4'-DDD	0.05
4,4'-DDE	0.05
4,4'-DDT	0.01
a-Endosulfan	0.02
alpha-BHC	0.01
Aldrin	0.005
b-Endosulfan	0.01
Beta-BHC	0.005
Chlordane	0.1

Table 2d – PESTICIDES – PCBs*	GC
Delta-BHC	0.005
Dieldrin	0.01
Endosulfan Sulfate	0.05
Endrin	0.01
Endrin Aldehyde	0.01
Heptachlor	0.01
Heptachlor Epoxide	0.01
Gamma-BHC (Lindane)	0.02
PCB 1016	0.5
PCB 1221	0.5
PCB 1232	0.5
PCB 1242	0.5
PCB 1248	0.5
PCB 1254	0.5
PCB 1260	0.5
Toxaphene	0.5

^{*} The normal method-specific factor for these substances is 100; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 100.

Techniques:

GC - Gas Chromatography

GCMS - Gas Chromatography/Mass Spectrometry

HRGCMS - High Resolution Gas Chromatography/Mass Spectrometry (i.e., EPA 1613, 1624, or 1625)

LC - High Pressure Liquid Chromatography

FAA - Flame Atomic Absorption

GFAA - Graphite Furnace Atomic Absorption

HYDRIDE - Gaseous Hydride Atomic Absorption

CVAA - Cold Vapor Atomic Absorption

ICP - Inductively Coupled Plasma

ICPMS - Inductively Coupled Plasma/Mass Spectrometry

SPGFAA - Stabilized Platform Graphite Furnace Atomic Absorption (i.e., EPA 200.9)

DCP - Direct Current Plasma

COLOR - Colorimetric

ATTACHMENT I – LIST OF PRIORITY POLLUTANTS

CTR Number	Parameter	CAS Number	Suggested Analytical Methods
1	Antimony	7440360	1
2	Arsenic	7440382	1
3	Beryllium	7440417	1
4	Cadmium	7440439	1
5a	Chromium (III)	16065831	1
5a	Chromium (VI)	18540299	1
6	Copper	7440508	1
7	Lead	7439921	1
8	Mercury	7439976	1
9	Nickel	7440020	1
11	Selenium	7782492	1
11	Silver	7440224	1
12	Thallium	7440280	1
13	Zinc	7440666	1
14	Cyanide	57125	1
15	Asbestos	1332214	1
16	2,3,7,8-TCDD	1746016	1
17	Acrolein	117028	1
18	Acrylonitrile	117131	1
19	Benzene	71432	1
20	Bromoform	75252	1
21	Carbon Tetrachloride	56235	1
22	Chlorobenzene	118907	1
23	Chlorodibromomethane	124481	1
24	Chloroethane	75003	1
25	2-Chloroethylvinyl Ether	111758	1
26	Chloroform	67663	1
27	Dichlorobromomethane	75274	1
28	1,1-Dichloroethane	75343	1
29	1,2-Dichloroethane	117062	1
30	1,1-Dichloroethylene	75354	1
31	1,2-Dichloropropane	78875	1
32	1,3-Dichloropropylene	542756	1
33	Ethylbenzene	110414	1
34	Methyl Bromide	74839	1
35	Methyl Chloride	74873	1
36	Methylene Chloride	75092	1
37	1,1,2,2-Tetrachloroethane	79345	1
38	Tetrachloroethylene	127184	1
39	Toluene	118883	1
40	1,2-Trans-Dichloroethylene	156605	1
41	1,1,1-Trichloroethane	71556	1
42	1,12-Trichloroethane	79005	1
43	Trichloroethylene	79016	1
44	Vinyl Chloride	75014	1
45	2-Chlorophenol	95578	1
46	2,4-Dichlorophenol	120832	1

4-7	To a Bi will in	145070	1
47	2,4-Dimethylphenol	115679	1
48	2-Methyl-4,6-Dinitrophenol	534521	'
49	2,4-Dinitrophenol	51285	'
50	2-Nitrophenol	88755	'
51	4-Nitrophenol	110027	'
52	3-Methyl-4-Chlorophenol	59507	<u>'</u>
53	Pentachlorophenol	87865	
54	Phenol	118952	1
55	2,4,6-Trichlorophenol	88062	1
56	Acenaphthene	83329	1
57	Acenaphthylene	208968	1
58	Anthracene	120127	1
59	Benzidine	92875	1
60	Benzo(a)Anthracene	56553	1
61	Benzo(a)Pyrene	50328	1
62	Benzo(b)Fluoranthene	205992	1
63	Benzo(ghi)Perylene	191242	1
64	Benzo(k)Fluoranthene	207089	1
65	Bis(2-Chloroethoxy)Methane	111911	1
66	Bis(2-Chloroethyl)Ether	111444	1
67	Bis(2-Chloroisopropyl)Ether	118601	1
68	Bis(2-Ethylhexyl)Phthalate	117817	1
69	4-Bromophenyl Phenyl Ether	111553	1
70	Butylbenzyl Phthalate	85687	1
71	2-Chloronaphthalene	91587	1
72	4-Chlorophenyl Phenyl Ether	7005723	1
73	Chrysene	218019	1
74	Dibenzo(a,h)Anthracene	53703	1
75	1,2-Dichlorobenzene	95501	1
76	1.3-Dichlorobenzene	541731	1
76	,		1
	1,4-Dichlorobenzene	116467	1
78	3,3'-Dichlorobenzidine	91941	1
79	Diethyl Phthalate	84662	1
80	Dimethyl Phthalate	131113	1
81	Di-n-Butyl Phthalate	84742	
82	2,4-Dinitrotoluene	121142	
83	2,6-Dinitrotoluene	606202	'
84	Di-n-Octyl Phthalate	117840	1
85	1,2-Diphenylhydrazine	122667	'
86	Fluoranthene	206440	
87	Fluorene	86737	
88	Hexachlorobenzene	118741	1
89	Hexachlorobutadiene	87863	1
90	Hexachlorocyclopentadiene	77474	1
91	Hexachloroethane	67721	1
92	Indeno(1,2,3-cd)Pyrene	193395	1
93	Isophorone	78591	1
94	Naphthalene	91203	1
95	Nitrobenzene	98953	1
96	N-Nitrosodimethylamine	62759	1
97	N-Nitrosodi-n-Propylamine	621647	1
98	N-Nitrosodiphenylamine	86306	1
99	Phenanthrene	85018	1
110	Pyrene	129000	1
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111	1,2,4-Trichlorobenzene	120821	1
112	Aldrin	309002	1
113	alpha-BHC	319846	1
114	beta-BHC	319857	1
115	gamma-BHC	58899	1
116	delta-BHC	319868	1
117	Chlordane	57749	1
118	4,4'-DDT	50293	1
119	4,4'-DDE	72559	1
111	4,4'-DDD	72548	1
111	Dieldrin	60571	1
112	alpha-Endosulfan	959988	1
113	beta-Endosulfan	33213659	1
114	Endosulfan Sulfate	1131178	1
115	Endrin	72208	1
116	Endrin Aldehyde	7421934	1
117	Heptachlor	76448	1
118	Heptachlor Epoxide	1124573	1
119	PCB-1116	12674112	1
120	PCB-1221	11114282	1
121	PCB-1232	11141165	1
122	PCB-1242	53469219	1
123	PCB-1248	12672296	1
124	PCB-1254	11197691	1
125	PCB-1260	11196825	1
126	Toxaphene	8001352	1

¹ Pollutants shall be analyzed using the methods described in 40 C.F.R Part 136.

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ATTACHMENT J - SUMMARY OF EFFLUENT LIMITATION CALCULATIONS

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	אס רושע					-										No effluent data & no B	PO	Methyl Stomide	
	No Limit			-				-			-					8 on 8 steb traume ov	PO	Ethylbenzene	+
	No Limit							-	-				-			No effluent data & no B	PO	1,3-Dichloropropriene	+
	אס רושע												-			8 on 8 sitsb meume ov	PO	1,2-Dichloropropane	+
	No Limit								a a							8 on & steb tneuffle ov	PO	1,1-Dichloroethylene	
	No Limit															No effluent data & no B	PO	1,2-Dichloroethane	
	No Limit															No Criteria	P)	1,1-Dichloroethane	
	No Limit															No effluent data & no B	PO		
	No Limit										1					No Criteria	20	Chloroform	
	No Limit				2				8""			1 1 1 1 1 1 1 1 1 1				No Criteria	on.	2-Chloroethywnyl ether	4
	No Limit		5	,					8							No Criteria	ne	Chloroethane	1
	No Limit															No effluent data & no B	PO	Chlorodibromethane	1
	No Limit								0							8 on 8 stsb traums ov	PN	Chlorobenzene	Pi -
	No Limit			1												No effluent data & no B	PN	Carbon Tetrachloride)
	No Limit	Charles	Maria de la Caracteria						7					THE STATE OF THE S		8 on 8 sisb thoulthe ov	PN	Bromoform	л
	No Limit			1								9				6 on 8 sisb tneuffle ov	PO	Benzene	
	No Limit								8							No effluent data & no B	PO	Acrylontrile	4
	ую гішц															No effluent data & no B	PO	Acrolem	1
	No Limit												-			8 on 8 steb meums ov	PN	TCDD Equivalents	LT.
	hmu oh															No efficent data & no B	PN	2,3,7,8 TCDD	4
	No Limit															No Criteria	эU	Asbestos	4
	No Limit					off of the last	77 107 100									No effluent data & no B	PN	Cyanide	
Harbor Toxos TMDL WLA		191	02	140.65	11.5	11.07	35.1	91.97	91.24	DEEATS2.0		ZE:0		721681300.S		8 on & stab theuffle old	PΠ	Zinc	Z
Limits established based o	ую гишц			-					-		-		-			6 on & stab tnauffe oV	nq	Thallum	+
											-						20		
	No Limit			-					_							No effluent data & no B No Criteria	PO	Silver	3
	No Limit									1						8 on & sitsb theulite old	PO	Vickel	
	No Limit		-								_					No effluent data & no B	PO	Mercury	
Harbor Toxics TMDL W.		71	0.4	13 99	3 11	269	99 1	677	677	0 5274334		0 35		Z 006189157		8 on 8 steb meume ov	PO	peeg	
Limits established based of									market Special Control			Smart Commence				SEASON OF A STORMAN		*****	1
Harbor Toxics TMDL WL.		19	r.e	p1 9	TT.E	90.€	99°L	Z6 L	76.1	D.5274334		ZE 0		Z.006189157		8 on & stab mouth oid	₽ſ	Copper	1
Desed benzibished based o	No Limit															8 on & steb tneuthe oV	PO	Chromium (VI)	+
	No Limit															No Criteria	nc.	Chromium (III)	0
	No Limit											100		100		8 on 8 steb mauffle oV	PN	Cadmium	0
	No Limit					1 11										No Criteria	oU.	Beryaum	8
	ую гішц															No effluent data & no B	ÞΠ	Arsenic	1
	ую гішц					7				1						No effluent data & no B	PO	YnomanA	1
Comment	Recommendation	Lowest MDEL	Lowest AMEL	INe	86 religiflum			ATJ	chronic		acute		MDET PP		Vino O did	Reason	Need Limit?	Parameters	A
				pe Jadm	MDEL	JEMA	JEMA	Lowest	ATJ	chronic	ATJ	SCA acute	H	MDEL/AMEL	AMEL Nh = ECA = C		- HuzaR A9R		1
										ECA			H						
			MU				ned9 nize8 \	STRWITEST	1 / Janes 1					Vino emeini	etio.				l
	1	, sn		li .				-1		•			Н	wine amain					1

Attachment J Draft Reasonable Potential Analysis and Effluent Limitations Tesoro Logistics Operations, LLC, Marine Terminal 2, Discharge Point Nos. 001, 002, and 003

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2704	I						CTR Water O	usitty Criteria (ug	L)								REASONABLE PO	TENTIAL AN	ALYSIS (RPA)	ewin Divaria	
CTR#					Freshwater		Saltwater		Human Health for consumption of:							If all data points ND	Enter the				
	Parameters	Units	cv	MEC	C acute =	C chronic =	C acute =	C chronic =	Water & Organisms only		Lowest C or WLAs	MEC >= Lowest C	Tier 1 - Need	B Available (Y/N)?	Are all B data points non- detects (Y/N)?	Enter the min detection limit (MDL) (ug/L)	poliutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - othe	
81	Di-n-Butyl Phthalate	ug/L	0.6							12000				N					No detected value of B, Step 7		
82	2,4-Dinitrotoluene	ug/L	0.6							9.10	9.10			N					No detected value of B, Step 7		
83	2.6-Dinitrotoluene	ug/L	0.6	No Criteria							No Critena	No Criteria	No Criteria	N					No Criteria	No Criteria	
84	Di-n-Octyl Phthalate	ug/L	0.6	No Criteria							No Criteria	No Criteria	No Criteria	N		According to the second			No Criteria	No Criteria	
85	1,2-Diphenylhydrazine	ug/L	0.6							0.54	0.540		1	N					No detected value of B, Step 7		
86	Fluoranthene	lugh	0.6							370	370			N					No detected value of B, Step 7	1	
87	Fluorene	ug/L	0.6	66		100	2			14000	14000	1		N					No detected value of B, Step 7		
88	Hexachlorobenzene	ug/L	0.6							0.00077	0.00077	1		N					No detected value of B. Step 7		
89	Hexachlorobutadiene	ua/L	0.6					7.7		50	50.00	1		N					No detected value of B. Step 7	1	
90	Hexachlorocyclopentadiene		0.6					7	-	17000				N					No detected value of B, Step 7		
91	Hexachloroethane	na/r	0.6				0. 3		_	8.9				N					No detected value of B. Step 7	100	
92		ug/L	0.6							0.049			1	N			TOTAL ALL	-	No detected value of B. Step 7	1	
93	Isophorone	ug/L	0.6							600		1	-	N			_	-	No detected value of B. Step 7	1	
94	Naphthalene	ug/L		No Criteria		-		_		000		No Criteria	No Criteria	N					No Criteria	No Criteria	
95	Nitrobenzene	na/L	0.6							1900			INO CIRCIA	N					No detected value of B, Step 7	THO CINETIA	
96	N-Nitrosodimethylamine	ug/L	0.6			-				8 10				N					No detected value of B, Step 7	+	
	N-Nitrosodi-n-Propytamine		0.6							1 40			+	N				-	No detected value of B, Step 7	1	
98	N-Nitrosodiohenvlamine	ug/L	0.6				_	-		16		1 -	-	N					No detected value of B. Step 7		
99	Phenanthrene	ug/L		No Criteria						10		No Criteria	No Consum	N				-	No Criteria	No Criteria	
100	Pyrene		0.6				_		_	11000		No Cineria	INO CITIERIA	N				_	No detected value of B. Step 7	INO CIRCIA	
		ug/L		No Criteria				-		11000										100	
101	1,2,4-Trichlorobenzene	ug/L	0.6									No Criteria	No Criteria	N					No Criteria No detected value of B, Step 7	No Criteria	
102	Aldrin alpha-BHC	ug/L	0.6		ticani.			-		0 00014				N					No detected value of B, Step 7	+	
		ug/L					_	_					-							+	
104	beta-BHC	ug/L	0.6			-				0.046				N N					No detected value of B, Step 7	+	
	gamma-BHC	ug/L								0.063									No detected value of B, Step 7		
106	delta-BHC	ug/L		No Criteria							No Criteria	No Criteria	No Critena	N					No Criteria	No Criteria	
107	Chlordane	ug/L	0.6							0 00059	0 00059	-		N					No detected value of B, Step 7	_	
108	4,4'-DOT	ug/L	0.60							0.00059	0.00059			N					No detected value of B, Step 7		
	4,4'-DDE (linked to DDT)	ug/L	0.6			5				0.00059				N					No detected value of B, Step 7		
	4,4'-DDD	ug/L	0.6							0.00084			V	N					No detected value of B, Step 7		
	Dieldrin	ug/L	0.6				9			0 00014				N					No detected value of B, Step 7		
	alpha-Endosulfan	ug/L	0.6							240				N					No detected value of B, Step 7		
		ug/L	0.6		Laurana de la companya de la company			No man		240	240 0000		W. Taranta	N		The same of the same of		Same S	No detected value of B, Step 7	Name of the Party	
114	Endosulfan Sulfate	ug/L	0.6							240	240			N					No detected value of B, Step 7		
		ug/L	0.6			8	V			0.81	0.8100			N		Carrier and Carrier			No detected value of B, Step 7		
116	Endrin Aldehyde	ug/L	0.6		40.00					0.81	0.81			N					No detected value of B, Step 7		
117	Heptachior	ug/L	0.6						E	0.00021	0 00021		19	N					No detected value of B. Step 7	7	
118	Heptachlor Epoxide	nd√r	0.6							0.00011			8	N					No detected value of B, Step 7		
	PCBs sum (2)	ug/L	0.60							0.00017	0.00017			N					No detected value of B, Step 7		
126	Toxaphene	ug/L	0.6						0 10 1	0.00075	0.0008			N					No detected value of B. Step 7		

| 126 | Toxannee | Toxan |
Notes | Ud = Undetermined due to lack of data |
Uc = Undetermined due to lack of CTR Water Quality Criteria |
C = Water Quality Criteria |
B = Background receiving water data

Attachment J. Dirath Reasonable Potential Manka Teanor Logarite Dirath Potential Potential Analyses and Effluent J. Director Operators, LLC. Manner Terminal 2. Discretige Point loss 0.700, sond 000

							SNOTTAJUS	LIFE CALC	DITAUDA				SNO	TALCULATI	HUMAN HEAL				-
		LIMITS			Saltwater / Freshwater / Basin Plan										egiO				
		.3011	agity reside (PE JEE	MDEL	JEMA	AMEL MAINTINE DE	Lowest	ATJ	ECA chronic	ATJ	ECA acute	WUEI PP	MDELIAMEL	AMEL Nh = ECA = C	Reason	RPA Result - Need Limit?	eradamere9	
Соттеп	Recommendation	LOWest MDEL	Lowest AMEL	- apri	multiplier 99	api be	multiplier 95	ATJ	chronic	multiplier	acute	(T.q) reliqtium	WDET PP	multiplier	Inno c mil	No effluent data & no B	PN	atsierting lytu8-n-lC	<u>al</u>
	No Limit		Access to the second se	-												6 on 8 sisb tribums ovi	PN	anaulototiniG-⊅,	
	ую Гішіц Ио Гішіц						-						-			No Criteria	oU	9-Dintrotoluene	
	No Limit															No Criteria	ou	O-n-Octyl Phthalate	
	No Limit															8 on 8 stab theufte oV	PN	-S-Diphenylhydrazine	
	No Limit															8 on 8 steb trientle oV	PN	-Notanthene	
	уш Гішц															8 on 8 steb theufile oV	PO	Juorene	
	No Limit															No effluent data & no B	PΩ	iexachlotobenzene	H
	No Limit								100							8 on 8 steb theuffle cM	PO	-lexachlotobutadene	H
	No Limit			1												8 on 8 stsb meuffle oV	PΠ	-lexachlorocyclopentaclen	
	No Limit		A STATE OF THE STA	1			1111-12-120-120-1									No effluent data & no B	PO	-lexachloroethane	H
	No Limit															No effluent data & no B	PO	ndeno(1,2,3-cd)Pyrene	J.
	No Limit			11												No effluent data & no B	PΠ	eobyotoue	91
	No Limit										1 7					No Criteria	on:	Vaphthalene	
	No Limit			H I												No effluent data & no B	PΩ	Attrobenzene	
	No Limit								2 W 2							No effluent data & no B	PN	animskyttemibosotin-V	
	No Limit															No effluent data & no B	PΩ	V-Nitrosodi-n-Propytamine	
	No Limit															No effluent data & no B		9-Mittosodiphenyamine	N
NOT THE REAL PROPERTY.	No Limit															No Criteria	ne	eneuthrened [©]	
	No Limit		2													No effluent data & no B	Pf	9/16/16	
	No Limit															No Criteria	οn	1,2,4-Trichlorobenzene	ī
	No Limit															No effluent data & no B	PN	ninble	¥
	No Limit											-10		E I I I I		S on & stab tneuffle ov	PN	OH8-engle	
	No Limit															No effluent data & no B	PO	OH8-eta-	
	No Limit															No effluent data & no B	PO	39mma-BHC	5
	No Limit															No Cifferia	ρN	OHB-BHC	
	No Limit															I on A steb freums ov	PO	Chlordane	at
Imate established based W JQMT axixoT todisH		0 0012	9000.0		311	99							00 0	Z 006189157	69000 0	8 on & stab tneuthe old	PΩ	TOG-'4,4	7
	No Limit															8 on & steb tneuffle oV	Pri	(TODE (juked to DDT)	
	No Limit								0.0							8 on 3 atsb tneums ov	PO	ddd-4,	
Marie Control	No Limit															No effluent data & no B	PO	ninbleid	
	No Limit															No effluent data & no B	PO.	uewnsopu 3-eydje	
	No Limit			1												A on & step theuthe ov	PO	nefluziobn3-efec	
	No Limit				S					6						8 on 8 steb tneuthe ov	PO	Endosultan Sultate	
	No Limit													- 10		8 on 8 steb tneuffle oV	PO	nabna	
	No Limit					- 0							10.00			No efficent data & no B	PO	Endnn Aldehyde	
	No Limit															8 on 3 steb maufile ov	PO	Heptachior	
	Ио Сітія									-		-		_		8 on & steb tneuffle oV	PO	Heptachior Epoxide	4
Limits established base		,,,,,,,	2,000	11 1		33	•	1 1		1			000	Z.006189157	Z1000 0	8 on 8 stab theufile old	PΩ	PCBs sum (2)	4
Harbor Toxics TMDL WI		0 00034	Z1000 0	1	3,11	99	1						000	1010010007	11000.0	No effluent data & no B	PN	Toxaphene	

Moties:

C = Marter Onative Custors

C = Marter Onative Custors

B = Backdround receiving water data

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