ATTACHMENT G – STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS FOR INDUSTRIAL AREAS

I. IMPLEMENTATION SCHEDULE

The Discharger shall continue to implement the existing storm water pollution prevention plan (SWPPP) for all storm water outfalls from the Facility regulated by Order No. R9-2002-0169 and Order No. R9-2003-0265 until the Discharger has fully completed the implementation of the Storm Water Management Program Requirements specified in section IV.F.2 of the Order. Following full compliance with section IV.F.2 of the Order, the Discharger may phase out coverage of areas designated as "Small MS4 Area", as defined in section IV.F.2 of the Order that are adequately addressed under the Storm Water Management Program (SWMP). All storm water outfalls from the Facility are subject to either the SWPPP or the SWMP.

The Discharger shall implement any necessary revisions to its SWPPP to comply with the requirements of this Order within 1 year of the effective date of this Order.

II. SWPPP OBJECTIVES

A. The Discharger's SWPPP shall be prepared to achieve these objectives:

1. To reduce or prevent the discharge of pollutants from industrial activities to the technology –based standards of best available technology economically achievable (BAT) for toxic and non-conventional pollutants, and best conventional pollutant control technology (BCT) for conventional pollutants;

2. To achieve compliance with the Receiving Water Limitations in section V of this Order;

3. To identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of the Facility's industrial storm water discharges and authorized non-storm water discharges;

4. To identify, describe, 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;

5. To identify and implement timely revisions and/or updates to the SWPPP.

B. To achieve the SWPPP objectives, the Discharger shall prepare a written Facility-specific SWPPP in accordance with all applicable SWPPP requirements of this attachment. The SWPPP shall include all required maps, descriptions, schedules, checklists, and relevant copies or specific references to other documents that satisfy the requirements of this attachment. The typical development and implementation steps necessary to achieve the described objectives are summarized in Item A-2, located at the end of this attachment.

III. PLANNING AND ORGANIZATION

A. SWPPP Checklist

The SWPPP shall include a SWPPP Checklist (Example checklist is included as Item A-1 below) located at the end of this section. For each requirement listed, the Discharger shall identify the page number where the requirement is located in the SWPPP (or the title, page number, and location of any reference documents), the implementation date or last revision date, and any SWPPP requirements that may not be applicable to the Facility.

B. Pollution Prevention Team

1. The SWPPP shall identify specific 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 Order.

2. The SWPPP shall clearly identify the responsibilities, duties, and activities of each team member.

3. The SWPPP shall identify, as appropriate, alternative individuals to perform the required SWPPP and monitoring program activities when team members are temporarily unavailable (due to vacation, illness, out of town meetings, etc.).

C. Review Other Requirements and Existing Facility Plans

1. The SWPPP shall be developed, implemented, and revised as necessary to be consistent with any applicable municipal, State, and Federal requirement that pertains to the requirements of this Order. For example, a municipal storm water management agency may require specific BMP implementation activities.

2. The SWPPP may incorporate or reference the elements of the Discharger's existing plans, procedures, or regulatory compliance documents that contain storm water pollution control practices or otherwise relate to the requirements of this Order. For example, facilities subject to Federal Spill Prevention Control and Countermeasures' requirements should already have instituted a plan to control spills of certain hazardous materials, or facilities subject to regional air quality emission controls may already have evaluated industrial activities that emit dust or particulate pollutants.

IV. SITE MAP

The SWPPP shall include a site map. The site map shall be provided on an 8 ½ x 11 inch or larger sheet and include notes, legends, north arrow, and other data as appropriate to ensure that the site map is clear and understandable. If necessary, the Discharger may provide the required information on multiple site maps. The following information shall be included on the site map:

A. Outlines of the Facility boundary, storm water drainage areas within the Facility boundary, and portions of any drainage area impacted by discharges from surrounding areas. Include the flow direction of each drainage area; on-site surface water bodies; areas of soil erosion; and location(s) of near-by water bodies (such as rivers, lakes, wetlands, etc.) or municipal storm drain inlets that may receive the Facility's storm water discharges and authorized non-storm water discharges.

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. The 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 accordance with section VI.A.4 below, have occurred.

E. Areas of industrial activity. Identify 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 reusing areas, and other areas of industrial activity which are potential pollutant sources.

F. Identify the boundaries of the High Risk areas, Low Risk areas, No-Exposure areas, and non-industrial areas, as defined in section IV.B.1 of the Order.

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, the locations where the material is stored, received, shipped, and handled, as well as the typical quantities and frequencies, shall be described. The materials list shall include raw materials, intermediate products, final or finished products, recycled materials, and waste or disposed materials.

VI. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

A. For each area identified in section IV.E of this Attachment, the SWPPP shall include a narrative description of the Facility's industrial activities, potential pollutant sources, and potential pollutants that could be exposed to storm water or authorized non-storm water discharges. At a minimum, the following industrial activities shall be described as applicable:

1. Industrial Processes

Describe each industrial process including the manufacturing, cleaning, maintenance, recycling, disposal, or other activities related to the process. Include the type, characteristics, and approximate quantity of significant materials used in or resulting from the process. Areas protected by containment structures and the corresponding containment capacity shall be identified and described.

2. Material Handling and Storage Areas

Describe each handling and storage area including the 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. Areas protected by a containment structure and the corresponding containment capacity shall be identified and described.

3. Dust and Particulate Generating Activities

Describe all industrial activities that generate dust or particulates that may be deposited within the Facility's boundaries. Include their discharge locations and the type, characteristics, and quality of dust and particulate pollutants that may be deposited within the Facility's boundaries. Identify the primary areas of the Facility where dust and particulate pollutants would settle.

4. Significant Spills and Leaks

Identify and describe materials that have spilled or leaked in significant quantities in storm water discharges or non-storm water discharges . Include toxic chemicals (listed in 40 CFR Part 302) that have been discharged to storm water as reported in USEPA Form R, and oil and hazardous substances in excess of reportable quantities (see 40 CFR Parts 110, 117, and 302).

The description shall include the location, characteristics, and approximate quantity of the materials 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 spills or leaks of the material do no reoccur.

5. Non-Storm Water Discharges

a. The Discharger shall inspect the Facility to identify all non-storm water discharges, sources, and drainage areas. All drains (inlets and outlets) shall be evaluated to identify whether they connect to the storm drain system.

b. All non-storm water discharges shall be described. The description shall include the source, quantity, frequency, and characteristics of the non-storm water discharges and associated drainage area and shall identify whether the discharge is an authorized or unauthorized non-storm water discharge in accordance with section XI. Examples of unauthorized non-storm water discharges are rinse and wash water (whether detergents are used or not, contact and non-contact cooling water, boiler blow-down, etc.

6. 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.

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 accordance with section VI of this Attachment. To determine the likelihood that significant materials will be exposed to storm water or authorized non-storm water discharges, the assessment shall include consideration of the quantity, characteristics, and locations of each significant material handled, produced, stored, recycled, or disposed; the direct and indirect pathways that significant materials may be exposed to storm water or authorized non-storm water discharges; history of spills or leaks; non-storm water discharges; prior sampling; visual observation, and inspection records; discharges from adjoining areas; and the effectiveness of

existing BMPs to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. At a minimum, the Discharger shall consider:

1. The quantity, physical characteristics (liquid, powder, solid, etc.), and locations of each significant material handled, produced, stored, recycled, or disposed.

2. The degree pollutants associated with those materials are exposed to and mobilized by contact with storm water.

3. The direct and indirect pathways that pollutants may be exposed to storm water or authorized non-storm water discharges. This shall include an assessment of past spills or leaks, non-storm water discharges, and discharges from adjoining areas.

4. Sampling, visual monitoring, and inspection records.

5. Effectiveness of existing BMPs to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges.

B. Based upon the assessment above, the SWPPP shall identify any areas of industrial activity and corresponding pollutant sources where significant materials are likely to be exposed to storm water or authorized non-storm water discharges and where additional BMPs are necessary to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges.

VIII. STORM WATER BEST MANAGEMENT PRACTICES

A. The SWPPP shall include a narrative description of BMPs implemented at the Facility. The BMPs, when developed and implemented, shall be effective in reducing or preventing pollutants in storm water discharges and authorized non-storm water discharges.

The BMPs narrative description shall include:

1. The type of pollutants the BMPs are designed to reduce or prevent.

2. The frequency, time(s) of day, or conditions when the BMPs are scheduled for implementation.

3. The locations within each area of industrial activity or pollutant source where the BMPs shall be implemented.

4. Identification of the person and/or position responsible for implementing the BMPs.

5. The procedures, including maintenance procedures, and/or instructions to implement the BMPs.

6. The equipment and tools necessary to implement the BMPs.

B. The Discharger shall consider non-structural BMPs for implementation at the Facility. Non-structural BMPs generally consist of processes, prohibitions, procedures, training, schedule of activities, etc., that prevent pollutants associated with industrial activity from contact with storm water discharges and authorized non-storm water discharges. Below is a list of non-structural BMPs that shall be considered:

1. Good Housekeeping

Good housekeeping generally consists of practical procedures to maintain a clean and orderly facility.

2. Preventative Maintenance

Preventative maintenance includes regular inspection and maintenance of storm water structural controls (i.e., catch basins, oil/water separators, etc.) as well as other facility equipment and systems.

3. 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.

4. Material Handling and Storage

This includes all procedures to minimize the potential for spills and leaks and to minimize exposure to significant materials to storm water and authorized non-storm water discharges.

5. Employee Training Program

This includes the development of a program to train personnel responsible for implementing the various compliance activities of this Order including BMPs implementation, inspections and evaluations, monitoring activities, and storm water compliance management. The training program shall include:

a. A description of the training program and any training manuals or training materials.

b. A discussion of the appropriate training frequency.

c. A discussion of the appropriate personnel to receive training.

d. A training schedule.

e. Documentation of all completed training classes and the personnel who received training.

6. Waste Handling/Recycling

This includes the procedures or processes to handle, store, or dispose of waste or recyclable materials.

7. Record Keeping 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.

8. 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.

9. Inspections

Periodic visual inspections of the Facility are necessary to ensure that the SWPPP addresses any significant changes to the Facility's operations or BMP implementation procedures.

a. A minimum of four quarterly visual inspections of all areas of industrial activity and associated potential pollutant sources shall be completed each reporting year. The annual comprehensive site compliance evaluation described in section IX may substitute for one of the quarterly inspections.

b. Tracking and follow-up procedures shall be described to ensure appropriate corrective actions and/or SWPPP revisions are implemented.

c. A summary of the corrective actions and SWPPP revisions resulting from quarterly inspections shall be reported in the annual report.

d. Dischargers shall certify in the annual report that each quarterly visual inspection was completed.

e. All corrective actions and SWPPP revisions shall be implemented in accordance with sections X.D and X.E.

10. Quality Assurance

This includes the management procedures to ensure that the appropriate staff adequately implements all elements of the SWPPP and Monitoring Program.

C. Structural BMPs

Where non-structural BMPs identified in section VIII.B above are not effective, structural BMPs shall be considered. Structural BMPs typically 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 shall be considered:

1. Overhead Coverage

This includes structures that protect materials, chemicals, and pollutant sources from contact with storm water and authorized non-storm water discharges.

2. Retention Ponds

This includes basins, ponds, surface impoundments, bermed areas, etc., that do not allow storm water to discharge from the Facility.

3. 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 includes containment structures around storage tanks and other areas that collect any leaks or spills.

5. Treatment

This includes inlet controls, infiltration devices, oil/water separators, detention ponds, vegetative swales, etc., which reduce the pollutants in storm water discharges and authorized non-storm water discharges.

D. The SWPPP shall include a summary identifying each area of industrial activity and associated pollutant sources, pollutants, and BMPs in a table similar to Item A-3 at the end of this attachment.

IX. ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION

The Discharger shall conduct one comprehensive site compliance evaluation (evaluation) in each reporting period (July 1 – June 30). Evaluations shall be conducted no less than 8 months from 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 areas of industrial activity and associated potential pollutant sources for evidence of, or the potential for, pollutants entering the drainage system. A visual inspection of equipment needed to implement the SWPPP.

C. A review and evaluation of all BMPs, both structural and non-structural, for each area of industrial activity and associated potential pollutant sources to determine whether the BMPs are properly designed, implemented, and are effective in reducing and preventing pollutants in storm water discharges and authorized non-storm water discharges.

D. An evaluation report that includes:

1. Identification of personnel performing the evaluation,

2. Date(s) of the evaluation,

3. Summary and implementation dates of all significant corrective actions and SWPPP revisions for the reporting year

4. Schedule for implementing any incomplete corrective actions and SWPPP revisions,

5. Any incidents of non-compliance and the corrective actions taken, and

6. A certification that the Discharger has completed the quarterly inspections specified in section VIII.B.9, above and that the Discharger is complying with this Order.

7. The evaluation report shall be submitted as part of the annual report, retained for at least 5 years, and signed and certified in accordance with Standard Provision V.B of Attachment D of this Order.

X. NUMERIC ACTION LEVELS (NALS) AND NUMERIC EFFLUENT LIMITATIONS (NELS)

A. Numeric Action Levels (NALs) for all storm water discharges are appropriate numeric thresholds that allow a discharger to take corrective action when the Instantaneous Maximum or Annual Average NAL are exceeded. Exceedances of NAL values are not a violation of the Order. Dischargers that exceed one of the NAL values shall take the appropriate corrective action as set forth in section IV.F.3. of the Order.

NALs are specified as follows:

Table G-1. NALs for Storm Water

PARAMETER	TEST METHOD[1]	DETECTION LIMIT	REPORTING UNITS	ANNUAL NAL VALUE	INSTANTANEOUS MAXIMUM NAL
pH	Field test with calibrated portable instrument, or lab sample in accordance with 40 CFR § 136.		pH units	6.0-9.0	6.0-9.0
Suspended Solids (TSS), Total	EPA 160.2 SM2540-D or as specified in 40 CFR 136.3.	1.0	mg/L	100	400
Oil & Grease (TOG), Total	EPA 413.2 or EPA 1664 or as specified in 40 CFR 136.3.	1.0	mg/L	15	25
Zinc, Total (H)	EPA 200.8 or as specified in 40 CFR 136.3.	0.0005	mg/L	0.26 [3]	
Copper, Total (H)	See footnote 2	0.0005	mg/L	0.0332[3]	
Lead, Total (H)	EPA 200.8 or as specified in 40 CFR 136.3.	0.0005	mg/L	0.262 [3]	
Chemical Oxygen Demand	SM 5220C or as specified in 40 CFR 136.3.	1.0	mg/L	120	
Aluminum, Total (pH 6.5-9.0)	EPA 200.8 or as specified in 40 CFR 136.3.	0.0005	mg/L	0.75	
Iron, Total	EPA200.8 or as specified in 40 CFR 136.3.	0.005	mg/L	1.0	
Nitrate + Nitrite Nitrogen	SM 4500-NO3- E or as specified in 40 CFR 136.3.	0.01	mg/L as N	0.68	
Total Phosphorus	SM 4500-P B+E or as specified in 40 CFR 136.3.	0.05	mg/L as P	2.0	
Ammonia	SM 4500-NH3 B+ C or E or as specified in 40 CFR 136.3.	0.1	mg/L	2.14	
Magnesium, total	EPA 200.8 or as specified in 40 CFR 136.3.	0.0005	mg/L	0.064	
Arsenic, Total (c)	EPA 200.8 or as specified in 40 CFR 136.3.	0.0005	mg/L	0.15	
Cadmium, Total (H)	EPA 200.8 or as specified in 40 CFR 136.3.	0.0002	mg/L	0.0053 [3]	
Nickel, Total (H)	EPA 200.8 or as specified in 40 CFR 136.3.	0.0005	mg/l	1.02 [3]	
Mercury, Total	EPA 245.1 or as specified in 40 CFR 136.3.	0.0001	mg/L	0.0014	
Selenium, Total	EPA 200.8 or as specified in 40 CFR 136.3.	0.0005	mg/L	0.005	
Silver, Total (H)	EPA 200.8 or as specified in 40 CFR 136.3.	0.0002	mg/L	0.0183 [3]	

Table G-1. NALs for Storm Water (Cont'd)

PARAMETER	TEST METHOD[1]	DETECTION LIMIT	REPORTING UNITS	ANNUAL NAL VALUE	INSTANTANEOUS MAXIMUM NAL
Biochemical Oxygen Demand	SM 5210B or as specified in 40 CFR 136.3.	3.0	mg/L	30	

SM – Standard Methods for the Examination of Water and Wastewater, 18th edition
EPA – EPA test methods

[1] Test methods with lower detection limits may be necessary when discharging to impaired water bodies. Alternate test methods may be approved by the Regional Board.

[2] Effluent samples shall be analyzed for copper according to method 1638 or 1640. The commonly used methods 6010B (Inorganics by ICP-Atomic Emission Spectroscopy) and 200.7 (Trace Elements-ICP) have been found to give inaccurate copper readings in saline-matrix samples due to interference with the sodium-argon complex, which has a molecular weight similar to copper. Method 1638 (ICP/MS) or 1640 (On-Line Chelation) will eliminate the sodium-argon complex before the sample is tested for copper. No inaccurate readings for other metals in a saline-matrix sample analyzed by methods 6010B or 200.7 are known.

[3] The NAL is based on the highest hardness because the water near the mouth of the creeks is very saline.

B. At any time in Level 2 status the Discharger may evaluate industrial pollutant sources, the SWPPP, non-industrial pollutant sources, and the impact of storm water discharges to receiving waters, and prepare and submit a technical report supporting one of the following demonstrations as applicable:

1. BAT/BCT Compliance Demonstration. The BAT/BCT Compliance Demonstration Technical Report shall at a minimum, include the following:

a. An evaluation of each of the following factors from 40 CFR Part 125.3(d):

i. The total cost of application of technology in relation to the effluent reduction benefits to be achieved from such application;

ii. The age of equipment and facilities involved;

iii. The process employed;

iv. The engineering aspects of the application of various types of control techniques;

v. Process changes; and

vi. Non-water quality environmental impact (including energy requirements).

b. A statement that the Discharger has identified and evaluated all pollutant source(s) associated with industrial activity that are causing an NAL exceedance;

c. A statement that the Discharger has already designed, installed, and implemented operational source control, treatment, and/or structural source control BMPs that are required to reduce or prevent pollutants in industrial storm water discharges in compliance with BAT/BCT;

d. A description of the industrial pollutant sources and corresponding industrial pollutants that are or may be discharged;

e. An evaluation of all alternative BMPs needed to meet the applicable NAL including costs;

f. A description of all implemented BMPs that constitute BAT/BCT for the specific identified parameter(s) in the drainage area(s); and

g. Alternate NALs, if applicable, that correspond to the identified treatment/structural BMPs and reflect BAT/BCT level of control.

2. Non-Industrial Pollutant Demonstration. The Non-Industrial Source Pollutant Demonstration Technical Report shall at a minimum, include the following:

a. A statement that the Discharger has identified and evaluated all potential pollutant sources which may have commingled with storm water associated with the Discharger's industrial activity and could be contributing to the NAL exceedance;

b. A statement that the Discharger has determined that the pollutants causing the exceedances are solely attributable to storm water run-on to the facility from adjacent properties or non-industrial portions of the Discharger's property or from aerial deposition;

c. A description of the industrial pollutant sources and corresponding industrial pollutants that are or may be discharged;

d. A quantification of the relative contributions of the pollutant from (1) storm water run-on to the facility from adjacent properties or non-industrial portions of the Discharger's property or from aerial deposition and (2) from the storm water associated with the Discharger's industrial activity;

e. A summary of the existing BMPs; and

f. An evaluation of all on-site/off-site analytical monitoring data demonstrating that the NAL exceedances are solely attributable to pollutants in storm water run-on to the facility from adjacent properties or non-industrial portions of the Discharger's property or from aerial deposition.

3. Natural Background Demonstration. The Natural Background Demonstration Technical Report shall at a minimum, include the following:

a. A statement that the Discharger has determined that the exceedance of the NAL is attributable solely to the presence of the pollutant in the natural background;

b. A summary of all data previously collected by the Discharger or others that describe the levels of natural background pollutants in the storm water discharge;

c. A summary of any research and published literature that relates the pollutants evaluated at the facility as part of the Natural Background Demonstration;

d. Map showing the reference site location in relation to facility along with available land cover information;

e. Reference site and test site elevation;

f. Available geology and soil information for reference and test sites;

g. Photographs showing site vegetation;

h. Site reconnaissance survey data regarding presence of roads, outfalls, or other human-made structures; and,

i. Records from relevant state or federal agencies indicating no known mining, forestry, or other human activities upstream of the proposed reference site.

XI. Monitoring Requirements

Monitoring shall be conducted as specified in the MRP. The SWPPP shall include a description of the following items:

A. Visual observation locations, visual observation procedures, and visual observation follow-up and tracking procedures.

B. Sampling locations and sample collection procedures. This shall include procedures for sample collection, storage, preservation, and shipping to the testing lab to assure that consistent quality control and quality assurance is maintained.

C. Identification of the analytical methods and related method detection limits (if applicable) used to detect pollutants in storm water discharges, including a justification that the method detection limits are adequate.

XII. SWPPP General Requirements

A. The SWPPP shall be retained at the Facility and made available upon request of a representative of the San Diego Water Board, or USEPA.

B. Upon notification by the San Diego Water Board and/or USEPA that the SWPPP does not meet one or more of the minimum requirements of this attachment, the Discharger shall revise the SWPPP and implement additional BMPs that are effective in reducing and eliminating pollutants in storm water discharges and authorized non-storm water discharges. As requested, the Discharger shall provide an implementation schedule and/or completion certification to the San Diego Water Board and/or USEPA.

C. The SWPPP shall be revised, as appropriate, and implemented prior to changes in industrial activities, which;

1. May significantly increase the quantities of pollutants in storm water discharges; or

2. Cause a new area of industrial activity at the Facility to be exposed to storm water; or

3. Begin an industrial activity that would introduce a new pollutant source at the Facility.

D. The Discharger shall revise the SWPPP and implement the appropriate BMPs in a timely manner and in no case more than 90 days after a Discharger determines that the SWPPP is in violation of any Order requirement.

E. When any part of the SWPPP is infeasible to implement by the deadlines specified above due to proposed significant structural changes, the Discharger shall:

1. Submit a report to the San Diego Water Board that:

a. Identifies the portion of the SWPPP that is infeasible to implement by the deadline;

b. Provides justification for a time extension, provides a schedule for completing and implementing that portion of the SWPPP; and

c. 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.

2. Comply with any request by the San Diego Water Board to modify the report required in Subsection VII.E.1 above, or provide certification that the SWPPP revisions have been implemented.

F. The SWPPP shall be provided, upon request, to the San Diego Water Board, USEPA, local agency, or Compliance Inspection Designees. The San Diego Water Board under section 308(b) of the Clean Water Act considers the SWPPP a report that shall be available to the public.

XIII. Authorized Non-Storm Water Discharges Special Requirements

A. The SWPPP shall address authorized non-storm water discharges and incorporate the requirements of section IV.G of this Order.

ITEM A-1

STORM WATER POLLUTION PREVENTION PLAN
EXAMPLE CHECKLIST

Facility Name _____

WDID# _____

FACILITY CONTACT
Name _____
Title _____
Company _____
Street Address _____
City, State _____
ZIP _____

CONSULTANT CONTACT
Name _____
Title _____
Company _____
Street Address _____
City, State _____
ZIP _____

Storm Water Pollution Prevention Plan	Not Applicable	SWPPP Page # or Reference Location	Date Implemented or Last Revised
Signed Certification			
Pollution Prevention Team			
Existing Facility Plans			
Facility Site Map(s)			
Facility Boundaries			
Drainage areas			
Direction of flow			
On-site water bodies			
Areas of soil erosion			
Nearby water bodies			
Municipal storm drain inlets			
Points of discharges			
Structural control measures			
Impervious areas (paved areas, buildings, covered areas, roofed areas			
Location of directly exposed materials			
Location of significant spills and leaks			
Storage areas / Storage tanks			
Shipping and receiving areas			
Fueling areas			
Vehicle and equipment storage and maintenance			
Material handling / Material processing			
Waste treatment / Waste Disposal			
Dust generation / Particulate generation			
Cleaning areas / Rinsing areas			
Other areas of industrial activities			
For the NAVSTA, High Risk area			
List of Significant Materials			
For each material listed:			
Storage location			
Receiving and shipping location			
Handling location			
Quantity			

Storm Water Pollution Prevention Plan	Not Applicable	SWPPP Page # or Reference Location	Date Implemented or Last Revised
Frequency			
Description of Potential Pollution Sources			
Industrial Processes			
Material handling and storage areas			
Dust and particulate generating activities			
Significant spills and leaks			
Non-storm water discharges			
Soil Erosion			
Assessment of Potential Pollutant Sources			
Areas likely to be sources of pollutants			
Pollutants likely to be present			
Storm Water Best Management Practices			
Non-Structural BMPs			
Good Housekeeping			
Preventative Maintenance			
Spill Response			
Material Handling and Storage			
Employee Training			
Waste Handling / Waste Recycling			
Recordkeeping and Internal Reporting			
Erosion Control and Site Stabilization			
Inspections			
Quality Assurance			
Structural BMPs			
Overhead Coverage			
Retention Ponds			
Control Devices			
Secondary Containment Structures			
Treatment			
Industrial Activity BMPs/Pollutant Summary			
Annual Comprehensive Site Compliance Evaluation			
Review of visual observations, inspections, and sampling analysis			
Visual inspection of potential pollution sources			
Review and evaluation of BMPs			
Evaluation Report			

ITEM A-2

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
*****Collect and review records

EVALUATION/MONITORING

*****Conduct annual site evaluation
*****Review monitoring information
*****Evaluate BMPs
*****Review and revise SWPPP

ITEM A-3
EXAMPLE
ASSESSMENT OF POTENTIAL POLLUTION SOURCES AND CORRESPONDING BEST MANAGEMENT PRACTICES SUMMARY

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

ATTACHMENT H – BEST MANAGEMENT PRACTICES AND POLLUTION PREVENTION PLAN FOR UTILITY VAULT AND MANHOLE DEWATERING DISCHARGES (UTILITY VAULT PLAN)

I. IMPLEMENTATION

The Discharger shall develop and implement a Best Management Practices and Pollution Prevention Plan for Utility Vault and Manhole Dewatering Discharges (Utility Vault Plan) which achieves the objectives and the specific requirements listed below. The existing Utility Vault Plan shall continue to be implemented. The revised Utility Vault Plan shall be implemented as soon as possible but no later than 1 year from the effective date of this Order.

II. OBJECTIVE

Through implementation of the Utility Vault Plan, the Discharger shall prevent or minimize the generation and the potential for the release of pollutants from the Facility to the waters of the United States through normal operations and ancillary activities.

III. The Utility Vault Plan shall include, to the extent possible, at least the following items:

A. Provisions for scheduled discharges, unscheduled discharges, reservoir discharges (if any), and emergency operation discharges.

B. Pollution Prevention Team. The Utility Vault PLAN shall identify a specific individual or individuals as members of a Pollution Prevention Team that are responsible for developing the Utility Vault PLAN and assisting in its implementation, maintenance, and revision. The Utility Vault PLAN shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the Utility Vault PLAN.

C. Description of Potential Pollutant Sources. The Utility Vault PLAN shall provide a description of potential sources that may add significant amounts of pollutants to discharges. The Utility Vault PLAN shall identify all activities and significant materials that may potentially be significant pollutant sources. The Utility Vault PLAN shall include at a minimum:

1. **Drainage Map.** Provide a map showing the essential features of the distribution system for the service area within this San Diego Water Board's boundary and showing the corresponding surface waters to which water may be discharged.

2. **Inventory of Exposed Materials.** Include an inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory

shall include a description of significant materials that have been handled, treated, stored, or disposed of in a manner to allow exposure to storm water from the previous 3 years and the present; method and location of onsite storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff from the previous 3 years and the present; the location and description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.

3. **Spills and Leaks**. Include a list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at areas exposed to precipitation or that otherwise enter the discharge stream from the previous 3 years through the present. The list shall be updated as appropriate.

4. **Risk Identification and Summary of Potential Pollutant Sources.** Include a narrative description of the potential pollutant sources, such as from significant dust or particulate generating processes. The description shall specifically list any significant potential source of pollutants at the site and, for each potential source; any pollutant or pollutant parameter (e.g., oil and grease) of concern shall be identified.

D. Measures and Controls. The Discharger shall develop a description of BMPs appropriate for the site(s), and implement such controls. The appropriateness and priorities of BMPs in a Utility Vault PLAN must reflect identified potential sources of pollutants at the site. Also, the Discharger should discuss the advantages and limitations of the Utility Vault PLAN. If relevant, include a structural diagram. The description of wastewater management controls shall address the following minimum components, including a schedule for implementing such controls:

1. **Good Housekeeping.** Maintain areas that may contribute pollutants to discharges so that they are kept clean and orderly. Store and contain liquid materials in such a manner that if the container is ruptured, the contents will not discharge, flow, or be washed into the storm drainage system, surface water, or groundwater.

2. **Preventative Maintenance.** Inspect and maintain wastewater management devices as well as inspect and test site equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters, and ensure appropriate maintenance of such equipment and systems.

3. **Spill Prevention and Response Procedures.** Identify areas where potential spills, which can contribute pollutants to discharge, can occur and their accompanying drainage points. Specify material handling procedures, storage requirements, and use of equipment. Make accessible to the appropriate personnel the procedures for cleaning up spills identified in the Utility Vault PLAN. Note that if the spilled material is hazardous, then the cleanup materials used are also hazardous and should be disposed of properly. For large spills, a private spill cleanup company or Hazmat may be necessary.

4. **Inspections.** Identify qualified personnel, by name or by job title, to inspect designated equipment and areas of the site, and ensure that appropriate actions are taken in response to the inspections. Maintain records of inspections. Inventory and inspect each discharge point during dry weather.

5. **Employee Training.** Train employees to implement activities identified in the Utility Vault PLAN. Address topics such as spill response, good housekeeping, and material management practices. Identify how often training will take place.

6. **Record Keeping and Internal Reporting Procedures.** Federal Regulations require that any oil spill to a water body be reported to the National Response Center at (800) 424-8802 (24 hours). The Discharger shall report spills to the appropriate local agency, such as the fire department, to assist in cleanup. Provide a description of incidents (such as spills or other discharges), along with other information describing the quality and quantity of discharges. Document patterns in time of occurrence, mode of dumping, responsible parties, date and time of incident, weather conditions, duration and cause of spill/leak/discharge, response procedures, resulting environmental problems, and persons notified. Document inspections and maintenance activities and maintain records of such activities. Include the date and time the inspection was performed, the name of the inspector, and the items inspected. If problems are noted, include the corrective action required and the date the action was taken.

7. **Sediment and Erosion Control.** Identify areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion.

8. **Management Runoff.** Include a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those that control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage runoff in a manner that reduces pollutants in discharges from the site. The Utility Vault PLAN shall provide measures that the Discharger determines to be reasonable and appropriate measures.

E. Comprehensive Site Compliance Evaluation. Qualified personnel shall conduct site compliance evaluations upon each discharge event. Such evaluations shall provide:

1. The Discharger shall visually inspect for evidence of, or the potential for, pollutants entering the receiving water. Evaluate measures to reduce pollutant loadings to determine whether they are adequate and properly implemented in accordance with the terms of this Order or whether additional control measures are needed. Ensure that structural wastewater management measures, sediment and erosion control measures, and other structural BMPs identified in the Utility Vault PLAN are operating correctly. Perform a visual inspection of equipment needed to implement the Utility Vault PLAN, such as spill response equipment.

2. Based on the results of the evaluation, the Discharger shall revise, as appropriate, the description of potential pollutant sources identified in the Utility Vault PLAN in accordance with section III.C above and BMPs identified in the Utility Vault PLAN with section III.D within 2 weeks of such evaluation and shall provide timely implementation of any changes to the Utility Vault PLAN.

3. Write and retain for 3 years, a report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the Utility Vault PLAN, and actions taken in accordance with section III.D.2, above. Identify any incidents of noncompliance or certify that the site(s) is in compliance with the Utility Vault PLAN and this Order. The report shall be signed in accordance with the signatory requirements of Standard Provision V.B. of Attachment D.

F. Additional requirements include:

1. The Utility Vault PLAN shall be designed to comply with BAT/BCT and to ensure compliance with water quality standards.

2. The Discharger shall amend the Utility Vault PLAN whenever there is a change in construction, operation, or maintenance, when such amendment is necessary to ensure compliance with BAT/BCT and receiving water limitations. The Utility Vault PLAN shall also be amended if it is in violation of any conditions of this Order or has not achieved the general objective of controlling pollutants in discharges to surface waters. The Discharger shall submit the amended the Utility Vault PLAN to the San Diego Water Board.

3. The Utility Vault PLAN and any amendments thereto shall be certified in accordance with the signatory requirements of Standard Provision V.B. of Attachment D.

IV. If an exceedance(s) of a receiving water limitation defined in section V. of this Order, expressed either narrative or numerically, has been identified by the Discharger or the San Diego Water Board as a result of a discharge from utility vault or manhole dewatering, either of the following actions shall be undertaken to ensure compliance with this Order:

A. The Discharger shall submit to the San Diego Water Board with the next quarterly report documentation that 1) the Discharger has addressed the cause of the exceedance, 2) the Discharger is now fully in compliance with the provision contained in section VI.C.3.a of this Order, and 3) implementation of the Utility Vault PLAN will prevent future exceedance(s) of the receiving water limitations; or

B. The Discharger shall develop and implement a revised Utility Vault PLAN with new or revised BMPs to prevent future exceedance(s). The Discharger shall implement such BMPs and document the progress of implementation and the effectiveness thereof in the annual report.

ATTACHMENT I – BEST MANAGEMENT PRACTICES PLAN FOR PIER BOOM, FENDER, AND MOORING CLEANING, USN GRAVING DOCK PRE-FLOOD CLEANING, SEAWATER COOLING AND OVERBOARD DISCHARGE AND WEIGHT TESTING WATER

I. Implementation

The Discharger shall develop and implement a Best Management Practices (BMP) Plan which achieves the objectives and the specific requirements listed below for the activities of pier boom, fender, and mooring cleaning, US Navy graving dock pre-flood cleaning, seawater cooling and overboard discharge, and weight testing water. Existing BMP Plans for these activities shall continue to be implemented. The revised BMP Plan for these activities shall be implemented as soon as possible but no later than 1 year from the effective date of this Order.

II. Purpose

Through implementation of the BMP Plan, the Discharger shall prevent or minimize the generation and the potential for the release of pollutants from the Facility to the waters of the United States through normal operations and ancillary activities. The BMP Plan shall address at a minimum pier boom, fender, and mooring cleaning, US Navy graving dock pre-flood cleaning, seawater cooling and overboard discharges, and weight testing water.

III. Objectives

The Discharger shall develop and amend the BMP Plan consistent with the following objectives for the control of pollutants:

A. The number and quantity of pollutants and the toxicity of effluent generated, discharged or potential discharged at the Facility shall be minimized by the Discharger to the extent feasible by managing each waste stream in the most appropriate manner.

B. The Discharger shall ensure proper operation and maintenance of the Facility. Standard Operating Procedures (SOPs) may be included in the BMP Plan or referenced.

C. The Discharger shall evaluate each component or system for its waste minimization opportunities and its potential for causing a release of significant amounts of pollutants to waters of the United States due to equipment failure, improper operation, and natural phenomena such as rain or snowfall, or other emergency situation. The evaluation shall include all normal operations and ancillary activities at a minimum related to pier boom, fender, and mooring cleaning, pier cleaning, US Navy graving dock flooding, and weight test water and any other activities which have the potential to discharge pollutants. The Discharger shall have a plan to address any emergency situation which would result in a significant release of pollutants to waters of the United States including those identified in this evaluation.

IV. Requirements

A. The BMP Plan shall be consistent with the objectives in section III above and the general guidance contained in the publication entitled *Guidance Manual for Developing Best Management Practices (BMPs)* (USEPA, 1993) or any subsequent revisions to the guidance document.

B. The BMP Plan shall be documented in narrative form, shall include any necessary plot plans, drawings or maps, and shall be developed in accordance with good engineering practices.

C. The BMP Plan shall be organized and written with the following elements:

1. Purpose and objectives of the BMP Plan

2. Name and location of the activity with specific BMPs.

3. Specific management practices and standard operating procedures to achieve the above objectives, including, but not limited to, the following:

a. Modification of equipment, facilities, technology, processes, and procedures,

b. Reformulation or redesign of products,

c. Substitution of materials,

d. Improvement in management, inventory control, materials handling or general operational phases of the facility. and

e. Materials compatibility.

4. Good housekeeping.

5. Preventative maintenance.

6. Risk identification and assessment.

7. Reporting of BMP incidents and spills.

8. Inspections and records.

9. Employee training.

D. The BMP Plan shall establish specific BMPs to meet the objectives identified in section III, addressing each component or system capable of generating or causing a release of significant amounts of pollutants, and identifying specific preventative or remedial measures to be implemented.

E. The BMP Plan shall establish specific BMPs or other measures which ensure that the following specific requirements are met:

1. Ensure that the discharge of pollutants including, but not limited to, copper, benzo (b) fluoranthene, benzo (k) fluoranthene, and chrysene from pier boom, fender, and mooring cleaning is reduced to levels that do not exceed water quality objectives. (RPA)

2. Ensure that discharge of pollutants including, but not limited to, copper and zinc in graving dock flood water is reduced to levels that do not exceed water quality objectives. (RPA and Benchmarks)

F. The BMP Plan shall include a statement this BMP Plan fulfills the requirements of this Order and shall be signed and certified in accordance with the signatory requirements of Standard Provision V.B. of Attachment D.

V. Documentation

The Discharger shall maintain a copy of the BMP Plan at the Facility and shall make it available to the San Diego Water Board upon request. All offices of the Discharger which are required to maintain a copy of the NPDES permit shall also maintain a copy of the BMP Plan.

VI. BMP Plan Modification

The Discharger shall amend the BMP Plan whenever there is a change in the facility or in the operation of the facility which materially increases the generation of pollutants or their release or potential release to the receiving waters. The Discharger shall also amend the BMP Plan, as appropriate, when operations covered by the BMP Plan change. Any such changes to the BMP Plan shall be consistent with the objectives and specific requirements listed above. All changes in the BMP Plan shall be reported to the San Diego Water Board in writing.

VII. Modification for Ineffectiveness

At any time, if the BMP Plan proves to be ineffective in achieving the general objective of preventing and minimizing the generation of pollutants and their release and potential release to the receiving waters and/or the specific requirements above, the Order and/or the BMP Plan shall be subject to modification to incorporate revised BMP requirements.

ATTACHMENT J – DISCHARGE PROHIBITIONS CONTAINED IN THE BASIN PLAN

I. Basin Plan Discharge Prohibitions

A. The discharge of waste to waters of the State in a manner causing, or threatening to cause a condition of pollution, contamination or nuisance as defined in Water Code section 13050, is prohibited.

B. The discharge of waste to land, except as authorized by WDRs of the terms described in Water Code section 13264 is prohibited.

C. The discharge of pollutants or dredged or fill material to waters of the United States except as authorized by an NPDES permit or a dredged or fill material permit (subject to the exemption described in Water Code section 13376) is prohibited.

D. Discharges of recycled water to lakes or reservoirs used for municipal water supply or to inland surface water tributaries thereto are prohibited, unless this San Diego Water Board issues an NPDES permit authorizing such a discharge; the proposed discharge has been approved by the State of California Department of Public Health and the operating agency of the impacted reservoir; and the discharger has an approved fail-safe long-term disposal alternative.

E. The discharge of waste to inland surface waters, except in cases where the quality of the discharge complies with applicable receiving water quality objectives, is prohibited. Allowances for dilution may be made at the discretion of the San Diego Water Board. Consideration would include streamflow data, the degree of treatment provided and safety measures to ensure reliability of facility performance. As an example, discharge of secondary effluent would probably be permitted if streamflow provided 100:1 dilution capability.

F. The discharge of waste in a manner causing flow, ponding, or surfacing on lands not owned or under the control of the discharger is prohibited, unless the discharge is authorized by the San Diego Water Board.

G. The dumping, deposition, or discharge of waste directly into waters of the State, or adjacent to such waters in any manner which may permit its being transported into the waters, is prohibited unless authorized by the San Diego Water Board.

H. Any discharge to a storm water conveyance system that is not composed entirely of storm water is prohibited unless authorized by the San Diego Water Board. [The federal regulations, 40 CFR 122.26(b)(13), define storm water as storm water runoff, snow melt runoff, and surface runoff and drainage. 40 CFR 122.26(b)(2) defines an illicit discharge as any discharge to a storm water conveyance system that is not composed entirely of storm water except discharges pursuant to an NPDES permit and discharges resulting from fire fighting activities.] [Section 122.26 amended at 56 FR 56553, November 5, 1991; 57 FR 11412, April 2, 1992].

I. The unauthorized discharge of treated or untreated sewage to waters of the State or to a storm water conveyance system is prohibited.

J. The discharge of industrial wastes to conventional septic tank/ subsurface disposal systems, except as authorized by the terms described in Water Code section 13264, is prohibited.

K. The discharge of radioactive wastes amenable to alternative methods of disposal into the waters of the State is prohibited.

L. The discharge of any radiological, chemical, or biological warfare agent into waters of the State is prohibited.

M. The discharge of waste into a natural or excavated site below historic water levels is prohibited unless the discharge is authorized by the San Diego Water Board.

N. The discharge of sand, silt, clay, or other earthen materials from any activity, including land grading and construction, in quantities which cause deleterious bottom deposits, turbidity or discoloration in waters of the State or which unreasonably affect, or threaten to affect, beneficial uses of such waters is prohibited.

O. The discharge of treated or untreated sewage from vessels to Mission Bay, Oceanside Harbor, Dana Point Harbor, or other small boat harbors is prohibited.

P. The discharge of untreated sewage from vessels to San Diego Bay is prohibited.

Q. The discharge of treated sewage from vessels to portions of San Diego Bay that are less than 30 feet deep at MLLW is prohibited.

R. The discharge of treated sewage from vessels, which do not have a properly functioning USCG certified Type 1 or Type II marine sanitation device, to portions of San Diego Bay that are greater than 30 feet deep at MLLW is prohibited.

ATTACHMENT K – SEDIMENT MONITORING AND ANALYSIS

I. SEDIMENT MONITORING DETAILED REQUIREMENTS

A. Field Procedures

1. All samples shall be collected using a grab sampler.

2. Benthic samples shall be screened through a 1.0 mm-mesh screen.

3. Surface sediment from within the upper 5 cm shall be collected for chemistry and toxicity analyses.

4. The entire contents of the grab sample, with a minimum penetration depth of 5 cm, shall be collected for benthic community analysis.

5. Bulk sediment chemical analysis will include at a minimum the pollutants identified in Table K-1.

B. Laboratory Testing

All samples will be tested in accordance with U.S. Environmental Protection Agency (USEPA) or American Society for Testing and Materials (ASTM) methodologies where such methods exist. Where no USEPA or ASTM methods exist, the State Water Board or Regional Water Quality Control Boards (San Diego Water Boards) (collectively Water Boards) shall approve the use of other methods. Analytical tests shall be conducted by laboratories certified by the California Department of Health Services in accordance with Water Code Section 13176.

C. Sediment Toxicity

A 10-Day amphipod survival test shall be performed using a species tolerant of the sample salinity and grain size characteristics (*e.g., Hyalella azteca* or *Eohaustorius estuaries*). The results shall be recorded as “Percent of control survival”.

D. Sediment Chemistry

All samples shall be tested for the analytes specified in Table K-1. In water bodies where other toxic pollutants are believed to pose risk to benthic communities, those toxic pollutants shall be identified and included by the Discharger. Inclusion of the additional analytes cannot be used in the exposure assessment, however the data can be used to conduct more effective stressor identification studies as described in the Sediment Quality Policy.

Table K-1. List of Chemical Analytes Needed to Characterize Sediment Contamination Exposure and Effect.

Chemical Name	Chemical Group
Total Organic Carbon	General
Percent Fines	General
Cadmium	Metal
Copper	Metal
Lead	Metal
Mercury	Metal
Zinc	Metal
Acenaphthene	PAH
Anthracene	PAH
Biphenyl	PAH
Naphthalene	PAH
2,6-dimethylnaphthalene	PAH
Fuorene	PAH
1-methylnaphthalene	PAH
2-methylnaphthalene	PAH
1-methylphenanthrene	PAH
Phenanthrene	PAH
Benzo(a)anthracene	PAH
Benzo(a)pyrene	PAH
Benzo(e)pyrene	PAH
Chrysene	PAH
Dibenz(a,h)anthracene	PAH
Fluoranthene	PAH
Perylene	PAH
Pyrene	PAH
Alpha Chlordane	Pesticide
Gamma Chlordane	Pesticide
Trans Nonachlor	Pesticide
Dieldrin	Pesticide
o,p'-DDE	Pesticide
o,p'-DDD	Pesticide
o,p'-DDT	Pesticide
p,p'-DDD	Pesticide
p,p'-DDE	Pesticide
p,p'-DDT	Pesticide

Chemical Name	Chemical Group
2,4'-Dichlorobiphenyl	PCB congener
2,2',5-Trichlorobiphenyl	PCB congener
2,4,4'-Trichlorobiphenyl	PCB congener
2,2',3,5'-Tetrachlorobiphenyl	PCB congener
2,2',5,5'-Tetrachlorobiphenyl	PCB congener
2,3',4,4'-Tetrachlorobiphenyl	PCB congener
2,2',4,5,5'-Pentachlorobiphenyl	PCB congener
2,3,3',4,4'-Pentachlorobiphenyl	PCB congener
2,3',4,4',5-Pentachlorobiphenyl	PCB congener
2,2',3,3',4,4'-Hexachlorobiphenyl	PCB congener
2,2',3,4,4',5'-Hexachlorobiphenyl	PCB congener
2,2',4,4',5,5'-Hexachlorobiphenyl	PCB congener
2,2',3,3',4,4',5-Heptachlorobiphenyl	PCB congener
2,2',3,4,4',5,5'-Heptachlorobiphenyl	PCB congener
2,2',3,4',5,5',6-Heptachlorobiphenyl	PCB congener
2,2',3,3',4,4',5,6-Octachlorobiphenyl	PCB congener
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	PCB congener
Decachlorobiphenyl	PCB congener

E. Benthic Community Condition

The Discharger shall identify all benthic invertebrates at the sample locations and reference stations to the lowest possible taxon and counted.

The Discharger shall identify the abundance of sensitive indicator taxa, tolerant indicator taxa, and total abundance. The Discharger shall then compare the results from the sampling locations to the reference locations.

ATTACHMENT L – ELEMENTS FOR SMALL MUNICIPAL (MILITARY BASE) SEPARATE STORM SEWER SYSTEM (MS4) – STORM WATER MANAGEMENT PROGRAM (SWMP)

I. SIX MINIMUM CONTROL MEASURES. The SWMP shall describe BMPs, and associated measurable goals, that fulfill the requirements of the following six Minimum Control Measures:

A. *Public Education and Outreach on Storm Water Impacts.* The SWMP shall contain a written plan to distribute educational materials to the target audiences identified below, or conduct equivalent outreach activities about the effects of storm water discharges on water bodies and the steps that the target audiences can take to reduce pollutants in storm water runoff

The SWMP shall contain a list of target audience groups consisting of civilian, contactor, retailers military personnel (and their dependents) that are present on the Facility that may be conducting activities that may have potential adverse effect(s) to water quality.

B. Public Involvement/Participation Program. The SWMP shall contain a written Public Involvement/Participation Program to:

1. Regularly encourage public participation in the development and implementation of the SWMP*;*

2. Establish a platform for the public and target audiences to provide input into the development and implementation of the SWMP;

3. Solicit public reporting of suspected illicit discharges via telephone and writing; and

4. Implement procedures for the receipt and consideration of verbal or written public inquires, concerns, and information submitted by the public.

C. *Illicit Discharge Detection and Elimination.* The SWMP shall contain a written Illicit Discharge Detection and Elimination Program containing the following elements:

1. A written program to detect and eliminate illicit discharges (as defined at 40 CFR §122.26(b)(2)) into the storm water drainage systems;

2. A storm sewer system map, showing the location of all storm water drainage systems, outfalls and the names and locations of all waters of the U.S. that receive discharges from those outfalls;

3. A prohibition against non-storm water discharges into the storm water drainage system except as allowed under Non-Storm Water Specification IV.D;

4. A plan to detect and address non-storm water discharges, including illegal dumping, to the MS4 system that are not authorized by a separate NPDES permit;

5. A plan to inform the target audiences of the hazards that are generally associated with illegal discharges and improper disposal of waste; and

6. A plan to address the categories of non-storm water discharges or flows as specified in Non-Storm Water Specification IV.G of this Order (i.e., authorized non-storm water discharges) only where they are identified as significant contributors of pollutants to the storm water collection system.

D. *Construction Site Storm Water Runoff Control.* The SWMP shall contain a written *Construction Site Storm Water Runoff Control* program to reduce pollutants in any storm water runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of storm water discharges from construction activity disturbing less than one acre must be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. The program must, at a minimum, include the development and implementation of:

1. Mechanisms to require erosion and sediment controls, as well as enforcement mechanisms, to ensure compliance;

2. Requirements for construction site operators to implement appropriate erosion and sediment control BMPs;

3. Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality;

4. Procedures for site plan review which incorporate consideration of potential water quality impacts;

5. Procedures for receipt and consideration of information submitted by the public. The Discharger shall demonstrate acknowledgement and consideration of the information submitted, whether submitted verbally or in writing; and

6. Procedures for site inspection and enforcement of control measures.

7. Procedures for verifying that the site has existing coverage under California's statewide General NPDES Permit for Storm Water Discharges Associated with Construction Activities (hereinafter General Construction Permit).

E. *Post-Construction Storm Water Management in New Development and Redevelopment.* The SWMP shall contain a written Post-Construction Storm Water Management Program to:

1. Address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development, that discharge into the storm water drainage system by ensuring that controls are in place that would prevent or minimize water quality impacts, and that are designed to maintain pre-project runoff condition

2. Develop and implement water quality strategies, which include a combination of structural and/or non-structural BMPs appropriate for the Facility;

3. Develop or use a mechanism to address post-construction runoff from new development and redevelopment projects.

4. Ensure adequate long-term operation and maintenance of water quality BMPs.

5. Maintain and regularly update an inventory of BMPs installed pursuant to the SWMP. The inventory shall include, at a minimum:

a. Exact location of BMP(s).

b. Contact information for the individual or entity responsible for long term BMP operation and maintenance.

c. A description of the BMP and the year it was installed.

d. Maintenance required.

e. Actual inspection/maintenance activities that occurred during the reporting year.

f. An assessment by the Discharger if proper operation and maintenance occurred during the year, and if not, what actions the Discharger has taken, or will take, to address the deficiencies.

F. *Pollution Prevention/Good Housekeeping.* The SWMP shall contain a written *Pollution Prevention/Good Housekeeping Program* that is sufficient to minimize pollutant runoff from on-site operations. The Discharger may incorporate by reference, other plans implemented at the Facility (i.e., SWPPP and BMP Plan) that address similar goals. The Discharger shall :

1. Develop *and* implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from Facility operations: and

2. Using training materials that are available from USEPA, the State, or other organizations, include target audience training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet building maintenance, new construction and land disturbances, and storm water system maintenance.

II. MEASUREABLE GOALS. The SWMP must identify the measurable goals for each of the BMPs, including, as appropriate, the months and years for scheduled actions, including interim milestones and the frequency of the action.

III. *SWMP ANNUAL REVIEW.* The SWMP shall be reviewed annually and revised as necessary. A summary of each annual review, the identified inadequacies, and any planned efforts to address the identified inadequacies shall be maintained as an attachment to the SWMP for a minimum of 5 years.

ATTACHMENT M – STORM WATER RISK LEVEL DESIGNATION TABLE

Listing of NBSD Storm Water Discharge Locations						
Discharge Point	**Navy ID Number**	**Type**	**Outfall Risk Level**	**Latitude**	**Longitude**	**Receiving Water**
NBSD-001	1	Industrial	High Risk	32º 41' 2" N	117º 7' 43" W	San Diego Bay
NBSD-002	2	Industrial	High Risk	32º 41' 1" N	117º 7' 42" W	San Diego Bay
NBSD-003	3	Industrial	High Risk	32º 40' 59" N	117º 7' 40" W	San Diego Bay
NBSD-004	4	Municipal	Non-Industrial	32º 40' 57" N	117º 7' 39" W	San Diego Bay
NBSD-005	5	Industrial	High Risk	32º 40' 56" N	117º 7' 38" W	San Diego Bay
NBSD-006	6	Industrial	High Risk	32º 40' 53" N	117º 7' 35" W	San Diego Bay
NBSD-007	7	Municipal	Non-Industrial	32º 40' 52" N	117º 7' 34" W	San Diego Bay
NBSD-008	8	Industrial	High Risk	32º 40' 50" N	117º 7' 32" W	San Diego Bay
NBSD-009	9	Industrial	High Risk	32º 40' 47" N	117º 7' 30" W	San Diego Bay
NBSD-010	10	Industrial	High Risk	32º 40' 46" N	117º 7' 29" W	San Diego Bay
NBSD-011	11	Industrial	High Risk	32º 40' 44" N	117º 7' 27" W	San Diego Bay
NBSD-012	12	Industrial	Low Risk	32º 40' 41" N	117º 7' 25" W	San Diego Bay
NBSD-013	13	Industrial	High Risk	32º 40' 39" N	117º 7' 23" W	San Diego Bay
NBSD-014	14	Industrial	High Risk	32º 40' 36" N	117º 7' 21" W	San Diego Bay
NBSD-015	15	Industrial	Low Risk	32º 40' 34" N	117º 7' 19" W	San Diego Bay
NBSD-016	16	Industrial	High Risk	32º 40' 32" N	117º 7' 17" W	San Diego Bay
NBSD-017	17	Industrial	High Risk	32º 40' 29" N	117º 7' 15" W	San Diego Bay
NBSD-018	18	Municipal	Non-Industrial	32º 40' 27" N	117º 7' 13" W	San Diego Bay
NBSD-019	19	Municipal	Non-Industrial	32º 40' 24" N	117º 7' 10" W	San Diego Bay
NBSD-020	20	Industrial	Low Risk	32º 40' 24" N	117º 7' 10" W	San Diego Bay
NBSD-021	21	Municipal	Non-Industrial	32º 40' 22" N	117º 7' 9" W	San Diego Bay
NBSD-022	22	Municipal	Non-Industrial	32º 40' 22" N	117º 7' 6" W	San Diego Bay
NBSD-023	23	Industrial	Low Risk	32º 40' 24" N	117º 7' 3" W	San Diego Bay
NBSD-024	24	Industrial	Low Risk	32º 40' 25" N	117º 7' 1" W	San Diego Bay
NBSD-025	25	Industrial	Low Risk	32º 40' 26" N	117º 6' 60" W	San Diego Bay
NBSD-026	26	Industrial	Low Risk	32º 40' 27" N	117º 6' 58" W	San Diego Bay
NBSD-027	27	Industrial	Low Risk	32º 40' 29" N	117º 6' 55" W	San Diego Bay
NBSD-028	28	Municipal	Non-Industrial	32º 40' 34" N	117º 6' 48" W	San Diego Bay
NBSD-029	29	Municipal	Non-Industrial	32º 40' 25" N	117º 6' 57" W	San Diego Bay
NBSD-030	30	Industrial	Low Risk	32º 40' 22" N	117º 6' 58" W	San Diego Bay
NBSD-031	31	Municipal	Non-Industrial	32º 40' 22" N	117º 6' 59" W	San Diego Bay
NBSD-032	32	Municipal	Non-Industrial	32º 40' 21" N	117º 7' " W	San Diego Bay
NBSD-033	33	Industrial	Low Risk	32º 40' 19" N	117º 7' 3" W	San Diego Bay

Listing of NBSD Storm Water Discharge Locations						
Discharge Point	**Navy ID Number**	**Type**	**Outfall Risk Level**	**Latitude**	**Longitude**	**Receiving Water**
NBSD-034	34	Industrial	High Risk	32º 40' 17" N	117º 7' 6" W	San Diego Bay
NBSD-035	35	Industrial	Low Risk	32º 40' 15" N	117º 7' 9" W	San Diego Bay
NBSD-036	36	Municipal	Non-Industrial	32º 40' 14" N	117º 7' 12" W	San Diego Bay
NBSD-037	37	Municipal	Non-Industrial	32º 40' 12" N	117º 7' 15" W	San Diego Bay
NBSD-038	38	Industrial	High Risk	32º 40' 11" N	117º 7' 17" W	San Diego Bay
NBSD-039	39	Industrial	High Risk	32º 40' 11" N	117º 7' 21" W	San Diego Bay
NBSD-040	40	Industrial	High Risk	32º 40' 11" N	117º 7' 23" W	San Diego Bay
NBSD-041	41	Industrial	Low Risk	32º 40' 9" N	117º 7' 23" W	San Diego Bay
NBSD-042	42	Industrial	Low Risk	32º 40' 7" N	117º 7' 21" W	San Diego Bay
NBSD-043	43	Industrial	Low Risk	32º 40' 8" N	117º 7' 18" W	San Diego Bay
NBSD-044	44	Industrial	Low Risk	32º 40' 8" N	117º 7' 13" W	San Diego Bay
NBSD-045	45	Industrial	Low Risk	32º 40' 7" N	117º 7' 10" W	San Diego Bay
NBSD-046	46	Industrial	Low Risk	32º 40' 4" N	117º 7' 10" W	San Diego Bay
NBSD-047	47	Industrial	Low Risk	32º 39' 58" N	117º 7' 9" W	San Diego Bay
NBSD-048	48	Industrial	Low Risk	32º 39' 55" N	117º 7' 8" W	San Diego Bay
NBSD-049	49	Municipal	Non-Industrial	32º 39' 52" N	117º 7' 8" W	San Diego Bay
NBSD-050	50	Municipal	Non-Industrial	32º 41' 26" N	117º 7' 27" W	Chollas Creek
NBSD-051	51	Municipal	Non-Industrial	32º 41' 27" N	117º 7' 25" W	Chollas Creek
NBSD-052	52	Municipal	Non-Industrial	32º 40' 56" N	117º 6' 46" W	San Diego Bay
NBSD-053	53	Municipal	Non-Industrial	32º 40' 54" N	117º 6' 46" W	San Diego Bay
NBSD-054	54	Municipal	Non-Industrial	32º 40' 54" N	117º 6' 47" W	San Diego Bay
NBSD-055	55	Municipal	Non-Industrial	32º 40' 51" N	117º 6' 45" W	San Diego Bay
NBSD-056	56	Municipal	Non-Industrial	32º 40' 48" N	117º 6' 44" W	San Diego Bay
NBSD-057	57	Municipal	Non-Industrial	32º 40' 47" N	117º 6' 44" W	San Diego Bay
NBSD-058	58	Municipal	Non-Industrial	32º 40' 45" N	117º 6' 43" W	San Diego Bay
NBSD-059	59	Municipal	Non-Industrial	32º 40' 42" N	117º 6' 41" W	San Diego Bay
NBSD-060	60	Municipal	Non-Industrial	32º 40' 53" N	117º 6' 40" W	San Diego Bay
NBSD-061	61	Municipal	Non-Industrial	32º 40' 49" N	117º 6' 39" W	San Diego Bay
NBSD-062	62	Municipal	Non-Industrial	32º 40' 48" N	117º 6' 39" W	San Diego Bay
NBSD-063	63	Municipal	Non-Industrial	32º 40' 39" N	117º 6' 40" W	San Diego Bay
NBSD-064	64	Municipal	Non-Industrial	32º 40' 36" N	117º 6' 39" W	San Diego Bay
NBSD-065	66	Municipal	Non-Industrial	32º 40' 44" N	117º 6' 36" W	San Diego Bay
NBSD-066	67	Municipal	Non-Industrial	32º 41' 24" N	117º 7' 29" W	Chollas Creek
NBSD-067	68	Municipal	Non-Industrial	32º 41' 21" N	117º 7' 30" W	Chollas Creek
NBSD-068	70	Municipal	Non-Industrial	32º 41' 18" N	117º 7' 31" W	Chollas Creek

Listing of NBSD Storm Water Discharge Locations						
Discharge Point	**Navy ID Number**	**Type**	**Outfall Risk Level**	**Latitude**	**Longitude**	**Receiving Water**
NBSD-069	71	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 32" W	San Diego Bay
NBSD-070	72	Municipal	Non-Industrial	32º 41' 18" N	117º 7' 38" W	Chollas Creek
NBSD-071	73	Municipal	Non-Industrial	32º 41' 17" N	117º 7' 39" W	Chollas Creek
NBSD-072	74	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 39" W	San Diego Bay
NBSD-073	75	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 39" W	San Diego Bay
NBSD-074	76	Municipal	Non-Industrial	32º 41' 15" N	117º 7' 40" W	San Diego Bay
NBSD-075	77	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 44" W	San Diego Bay
NBSD-076	78	Municipal	Non-Industrial	32º 40' 34" N	117º 6' 48" W	San Diego Bay
NBSD-077	79	Municipal	Non-Industrial	32º 40' 31" N	117º 6' 52" W	San Diego Bay
NBSD-078	80	Industrial	Low Risk	32º 40' 31" N	117º 6' 53" W	San Diego Bay
NBSD-079	80A	Industrial	High Risk	32º 40' 15" N	117º 6' 55" W	San Diego Bay
NBSD-080	81	Municipal	Non-Industrial	32º 40' 31" N	117º 6' 53" W	San Diego Bay
NBSD-081	82	Municipal	Non-Industrial	32º 40' 30" N	117º 6' 53" W	San Diego Bay
NBSD-082	83	Industrial	Low Risk	32º 40' 31" N	117º 6' 53" W	San Diego Bay
NBSD-083	84	Municipal	Non-Industrial	32º 40' 30" N	117º 6' 53" W	San Diego Bay
NBSD-084	85	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 52" W	San Diego Bay
NBSD-085	86	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 53" W	San Diego Bay
NBSD-086	87	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 53" W	San Diego Bay
NBSD-087	88	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 53" W	San Diego Bay
NBSD-088	89	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 53" W	San Diego Bay
NBSD-089	90	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 54" W	San Diego Bay
NBSD-090	91	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 54" W	San Diego Bay
NBSD-091	92	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 54" W	San Diego Bay
NBSD-092	93	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 55" W	San Diego Bay
NBSD-093	94	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 55" W	San Diego Bay
NBSD-094	95	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 56" W	San Diego Bay
NBSD-095	96	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 57" W	San Diego Bay
NBSD-096	97	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 58" W	San Diego Bay
NBSD-097	98	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 59" W	San Diego Bay
NBSD-098	99	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 60" W	San Diego Bay
NBSD-099	101	Municipal	Non-Industrial	32º 41' 10" N	117º 7' 58" W	San Diego Bay
NBSD-100	102	Municipal	Non-Industrial	32º 41' 10" N	117º 7' 57" W	San Diego Bay
NBSD-101	103	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 52" W	San Diego Bay
NBSD-102	104	Municipal	Non-Industrial	32º 41' 6" N	117º 7' 54" W	San Diego Bay
NBSD-103	105	Municipal	Non-Industrial	32º 41' 3" N	117º 7' 50" W	San Diego Bay

Listing of NBSD Storm Water Discharge Locations						
Discharge Point	**Navy ID Number**	**Type**	**Outfall Risk Level**	**Latitude**	**Longitude**	**Receiving Water**
NBSD-104	106	Municipal	Non-Industrial	32º 41' 2" N	117º 7' 50" W	San Diego Bay
NBSD-105	107	Industrial	High Risk	32º 41' 2" N	117º 7' 49" W	San Diego Bay
NBSD-106	108	Municipal	Non-Industrial	32º 41' 4" N	117º 7' 45" W	San Diego Bay
NBSD-107	109	Industrial	High Risk	32º 40' 55" N	117º 7' 37" W	San Diego Bay
NBSD-108	110	Industrial	Low Risk	32º 40' 6" N	117º 7' 10" W	San Diego Bay
NBSD-109	111	Municipal	Non-Industrial	32º 40' 1" N	117º 7' 9" W	San Diego Bay
NBSD-110	113	Municipal	Non-Industrial	32º 39' 50" N	117º 7' 8" W	San Diego Bay
NBSD-111	114	Municipal	Non-Industrial	32º 39' 46" N	117º 7' 7" W	San Diego Bay
NBSD-112	115	Municipal	Non-Industrial	32º 39' 42" N	117º 7' 7" W	San Diego Bay
NBSD-113	116	Municipal and No Exposure Industrial	Non-Industrial and No Exposure Industrial	32º 39' 35" N	117º 7' 6" W	San Diego Bay
NBSD-114	117	Industrial	Low Risk	32º 39' 32" N	117º 7' 5" W	San Diego Bay
NBSD-115	119	Municipal	Non-Industrial	32º 40' 39" N	117º 6' 57" W	San Diego Bay
NBSD-116	120	Municipal	Non-Industrial	32º 40' 41" N	117º 6' 42" W	San Diego Bay
NBSD-117	121	Municipal	Non-Industrial	32º 40' 35" N	117º 6' 45" W	San Diego Bay
NBSD-118	122	Industrial	Low Risk	32º 40' 47" N	117º 7' 2" W	San Diego Bay
NBSD-119	123	Municipal	Non-Industrial	32º 41' 24" N	117º 7' 28" W	Chollas Creek
NBSD-120	124	Municipal	Non-Industrial	32º 41' 19" N	117º 7' 32" W	Chollas Creek
NBSD-121	126	Municipal	Non-Industrial	32º 41' 17" N	117º 7' 34" W	Chollas Creek
NBSD-122	129	Municipal	Non-Industrial	32º 41' 17" N	117º 7' 39" W	Chollas Creek
NBSD-123	130	Municipal	Non-Industrial	32º 41' 17" N	117º 7' 40" W	San Diego Bay
NBSD-124	132	Municipal	Non-Industrial	32º 41' 17" N	117º 7' 42" W	San Diego Bay
NBSD-125	133	Municipal	Non-Industrial	32º 41' 15" N	117º 7' 42" W	San Diego Bay
NBSD-126	135	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 52" W	San Diego Bay
NBSD-127	136	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 51" W	San Diego Bay
NBSD-128	137	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 50" W	San Diego Bay
NBSD-129	138	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 49" W	San Diego Bay
NBSD-130	139	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 49" W	San Diego Bay
NBSD-131	140	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 48" W	San Diego Bay
NBSD-132	141	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 48" W	San Diego Bay
NBSD-133	142	Municipal	Non-Industrial	32º 41' 16" N	117º 7' 47" W	San Diego Bay
NBSD-134	143	Municipal	Non-Industrial	32º 41' 10" N	117º 7' 58" W	San Diego Bay
NBSD-135	144	Industrial	High Risk	32º 41' 10" N	117º 7' 58" W	San Diego Bay
NBSD-136	145	Municipal	Non-Industrial	32º 41' 9" N	117º 7' 56" W	San Diego Bay

Listing of NBSD Storm Water Discharge Locations						
Discharge Point	**Navy ID Number**	**Type**	**Outfall Risk Level**	**Latitude**	**Longitude**	**Receiving Water**
NBSD-137	146	Municipal	Non-Industrial	32º 41' 6" N	117º 7' 54" W	San Diego Bay
NBSD-138	147	Municipal	Non-Industrial	32º 41' 3" N	117º 7' 51" W	San Diego Bay
NBSD-139	148	Municipal	Non-Industrial	32º 41' 4" N	117º 7' 45" W	San Diego Bay
NBSD-140	149	Municipal	Non-Industrial	32º 41' 4" N	117º 7' 44" W	San Diego Bay
NBSD-141	150	Municipal	Non-Industrial	32º 41' 30" N	117º 8' 1" W	San Diego Bay
NBSD-143	152	Industrial	High Risk	32º 40' 55" N	117º 7' 36" W	San Diego Bay
NBSD-144	343	Industrial	High Risk	32º 40' 1" N	117º 7' 9" W	San Diego Bay
NBSD-145	441	Municipal	Non-Industrial	32º 41' 18" N	117º 8' 1" W	San Diego Bay
NBSD-146	442	Municipal	Non-Industrial	32º 39' 39" N	117º 7' 6" W	San Diego Bay
NBSD-147	443	Municipal	Non-Industrial	32º 39' 40" N	117º 7' 6" W	San Diego Bay
NBSD-148	444	Municipal	Non-Industrial	32º 41' 28" N	117º 7' 26" W	Chollas Creek
NBSD-149	153-171	Industrial	High Risk	32º 41' 7" N	117º 8' 1" W	San Diego Bay
NBSD-150	172-195	Industrial	High Risk	32º 40' 59" N	117º 7' 53" W	San Diego Bay
NBSD-151	196-217	Industrial	High Risk	32º 40' 55" N	117º 7' 46" W	San Diego Bay
NBSD-152	218-247	Industrial	High Risk	32º 40' 49" N	117º 7' 41" W	San Diego Bay
NBSD-153	248-269	Industrial	High Risk	32º 40' 42" N	117º 7' 36" W	San Diego Bay
NBSD-154	270-288	Industrial	High Risk	32º 40' 36" N	117º 7' 30" W	San Diego Bay
NBSD-155	289-314	Industrial	High Risk	32º 40' 30" N	117º 7' 26" W	San Diego Bay
NBSD-156	315-339	Industrial	High Risk	32º 40' 23" N	117º 7' 21" W	San Diego Bay
NBSD-157	340-341	Industrial	Low Risk	32º 40' 9" N	117º 7' 20" W	San Diego Bay
NBSD-158	391-414	Industrial	High Risk	32º 39' 51" N	117º 7' 14" W	San Diego Bay
NBSD-159	415-438	Industrial	High Risk	32º 39' 45" N	117º 7' 13" W	San Diego Bay