



#### Los Angeles Regional Water Quality Control Board

December 14, 2017

Christopher Carobene Tyco Electronics Subsea Communications LLC 250 Industrial Way West Eatontown, NJ 07724

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED No. 7016 0750 0000 8035 3759

Dear Mr. Carobene:

RE: CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION AND ORDER FOR THE LOS ANGELES TRANS-PACIFIC TELECOMMUNICATIONS CABLE HUB (4WQC40117048)

Enclosed please find a CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION AND ORDER, authorized by Los Angeles Regional Water Quality Control Board Executive Officer, Samuel Unger. This Order is issued to Tyco Electronics Subsea Communications LLC for Los Angeles Trans-Pacific Telecommunications Cable Hub (Project). Attachments A through C of the Enclosure are also part of the Order.

This Order is issued in response to an application submitted by Tyco Electronics Subsea Communications LLC for proposed Project discharges to waters of the state, to ensure that the water quality standards for all waters of the state impacted by the Project are met. You may proceed with your Project according to the terms and conditions of the enclosed Order.

If you require further assistance, please contact Valerie CarrilloZara by phone at (213) 576-6759 or by email at Valerie.CarrilloZara@waterboards.ca.gov. You may also contact me, by phone at (213) 576-6785 or by email at LB.Nye@waterboards.ca.gov.

Sincerely

LB Nye,

Senior Environmental Scientist

Section 401 Certification and Wetlands Unit

Los Angeles Water Quality Control Board

Enclosures (1): Order for Los Angeles Trans-Pacific Telecommunications Cable Hub.

File No. 17-048

Reg. Meas. ID: 413214 Place ID: 835173

File No: 17-048

cc: [Via email only] (w/ enclosure):

Summer Pardo Environmental Resources Management

Bill Orme CWA Section 401 WQC Program Division of Water Quality State Water Resources Control Board

Melissa Scianni U.S. Environmental Protection Agency, Region 9

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# Los Angeles Regional Water Quality Control Board

# **CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION AND ORDER**

Effective Date: December 14, 2017

Reg Meas 413214

Place ID:

835173

Program Type: Fill/Excavation

WDID:

4WQC40117048

NWP:

**Project Type:** Underground Utility

USACOE#: SPL-2016-00669

R4 File No 17-048

Project: Los Angeles Trans-Pacific Telecommunications Cable Hub (Project)

Applicant:

Contact:

**Applicant** Christopher Carobene

Tyco Electronics Subsea Communications LLC

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Applicant's

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Water Board Valerie Carrillo-Zara

Staff:

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Email: valerie.carrillozara@waterboards.ca.gov

## Water Board Contact Person:

If you have any questions, please call Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) Staff listed above or (213) 576-6600 and ask to speak with the Water Quality Certification and Wetlands Unit Program Manager.

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#### I. Order

This Clean Water Act (CWA) section 401 Water Quality Certification action and Order (Order) is issued at the request of Tyco Electronics Subsea Communications, LLC (herein after Permittee) for the Project. This Order is for the purpose described in the application submitted by the Permittee. The application was received on April 7, 2017 The application was deemed complete on November 3, 2017.

#### II. Public Notice

The Los Angeles Water Board provided public notice of the application pursuant to California Code of Regulations, title 23, section 3858 from April 12, 2017April 12, 2017 to the effective date of the Order. The Los Angeles Water Board did not receive any comments during the comment period.

## III. Project Purpose

The Project purpose is to achieve the following between the mainland U.S. and the Asia-Pacific region:

- Add direct telecommunication links;
- Increase telecommunications reliability;
- Increase diversity of telecommunication pathways;
- Increase data transmission capacity and speeds to satisfy burgeoning demands;
   and
- Respond to increasing demand for connectivity.

#### IV. Project Description

Tyco Electronics Subsea Communications LLC will install the Los Angeles Trans-Pacific Telecommunications Cable Hub (Project) in the City of Los Angeles, California.

The Project will construct a landing site with the capacity to install up to four Trans-Pacific fiber optic cable systems that will connect to Los Angeles area data centers. From the cable landing site seaward, the Pacific Light Cable Network (PLCN) subsea cable will be installed through Santa Monica Bay and the Pacific Ocean, ultimately terminating in Hong Kong, China. Additionally, an approximately 3.9-mile (6.3-kilometer) subsea Trans-Pacific Cable Segment (cable segment) will be installed and anchored offshore. From the cable landing site landward, approximately 3.7 miles (6.0 kilometers) of subsurface conduit will be installed to connect to an existing data center in El Segundo, California.

# Cable Landing Site

Construction at the cable landing site will include four, 5-inch diameter, steel bore pipes installed by horizontal directional drilling (HDD) from the beach parking lot, under the beach and surf zone, to the offshore environment. The staging area at the cable landing site is within a parking lot at Dockweiler State Beach. Project equipment and materials will access the staging area via existing improved roads. The staging area will be used for the HDD rig and associated equipment, along with a crane that will be used to setup and breakdown the work site.

Two beach manholes (BMHs) will be installed at the landward end of the bore pipes in the parking lot, where the subsea cables will terminate and connect to the terrestrial conduit system. The excavation for the BMHs will be sized to accommodate placement of two precast concrete enclosures that are 12 feet (3.7 meters) long, 6 feet (1.8 meters) wide, and 7 feet (2.1 meters) deep. Once the enclosures are placed and the necessary internal infrastructure installed, the area around the BMHs will be backfilled with native soil. Once installation is complete, the only component of the BMH that will be exposed is a 3-foot (0.9-meter) diameter, cast-iron manhole cover at grade level.

Up to two ocean ground beds (OGB) will be installed at the cable landing site. The OGB design consists of an electrode array for cathodic protection to control corrosion and ground the high voltage electricity that powers the subsea cable repeaters/amplifiers. Installation of an OGBwill require excavation of an area that is 25 feet (7.6 meters) long, 30 feet (9.14 meters) wide, and 16.4 feet (5 meters) deep. All excavated soils will be temporarily stockpiled within the cable landing staging area. Each OGB will contain a single row of three anodes installed at depths between 9.8 and 16.4 feet (3 to 5 meters) below ground level. Warning tape will be placed at a depth of 3.3 feet (1 meter) below ground surface, and the area will be backfilled with native soil.

The OGBs will be connected to the BMHs with one, 1.25-inch (3.12 centimeters), high-density polyethylene conduit that will be installed via open- cut trenching. The conduit will be installed using similar cross-sections as those characterized above. Once the conduit is installed, the trenches will be backfilled with native soil.

#### Horizontal Directional Drill

Four, 5-inch diameter steel bore pipes will be installed via HDD. The HDD depth profile will range from 6.5 feet (2 meters) at the entry point, to a maximum depth of approximately 120 feet (36.5 meters).

The HDD will exit beyond the surf zone approximately 4,265 feet (1,300 meters) from the cable landing, in water depth of approximately 49.2 feet (15 meters). Two of the bore pipes will be used to house the PLCN cable and cable segment; the remaining two conduits will be capped and remain in place for future cable installation.

Prior to drilling, temporary tracking wire will be installed between the entry point on shore and the bore pipe exit points to help guide the HDD installation. The marine portion of the tracking wire will be anchored by 18 to 22 concrete eco-blocks. The installation of the eco-blocks and tracking wire will take place simultaneously as the drilling equipment is being rigged up. The dimensions of each eco-block are 2 feet by 2 feet by 2 feet (0.6 x 0.6 x 0.6 meters). A marine vessel(s) will place the eco-blocks on the seafloor along the tracking wire's alignment. The eco-blocks will be attached to a galvanized cable and buoy ball and will be spaced approximately 300 feet (91.4 meters) apart. The tracking wire will be strung using a dive boat and dive crew.

A 15-foot (4.6 meters) long, 10-foot (3 meters) wide, 6-foot (1.8 meters) deep entry pit will be formed in line with the HDD rig to initiate the pilot hole. The purpose of the entry pit is to

capture and contain the returning drilling fluid. A slurry sump pump will be set in place, next to the entry pit, to pump out the returning fluid to the recycling unit for further treatment, adjustment, and reuse. The drill will be advanced along the pre-determined path, while drilling fluid is pumped down the inside of the bore pipe and out the drill head. As drilling proceeds, pipe segments will be added and remain in place, forming the steel conduit used to house the fiber-optic cable. Water will be used to drill the last 100 to 130 feet (30 to 40 meters) of each conduit. Volumes will be calculated so that water will have displaced all of the drilling fluid when the drilling assembly exits the sea floor.

Once the drilling assembly exits the seafloor, the support dive crew will be deployed to verify the bore pipe exit point. Divers will then remove excess sediment from around the end of the pipe using a jetting assembly, which will allow the pipe to terminate at the proper elevation. This process also provides a drill string, which will be used to pull the PLCN cable and cable segment through their respective pipes. The eco-blocks and tracking wire will be removed once the HDD installations have been completed.

# Drilling Fluid Management

The preparation of drilling fluid used to lubricate the drill cutting head for the HDD requires the use of water, a bentonite drilling additive, and a mixing unit. Bentonite clay is a biodegradable and non-toxic substance. A polymer additive will be available onsite to be employed in the drilling fluid in negligible concentration (0.5 kilogram per cubic meter of drilling fluid) as, and only if, required in order to enhance the bore stability by strengthening the filter-cake being formed on the bore walls during the drilling operation. Solid and liquid sludge that cannot be recycled further will be transported by a vacuum truck and disposed of at an off-site location designated by the selected local subcontractor.

If cracks or fissures exist in the substrate, there is a possibility that drilling fluid could move through the cracks and exit at the surface; in this case, under the beach or in the Pacific Ocean offshore of the landing site. This is known as an inadvertent drilling fluid release or "frac-out." The Project will implement a series of monitoring and management measures during HDD operations to detect and respond to a potential drilling fluid release. While drilling is taking place, the fluid system operator will monitor the volumes from the pumps and return flows from the bore pipe and alert personnel if there is a decrease in the return volume. This is the most effective and efficient way to detect a drilling fluid release.

Once the HDD has advanced significantly towards the bore exit point, marine support of HDD operations will commence. A vessel will establish its location and hold position, without anchoring, approximately 50 feet (15.2 meters) off the exit point and serve as a marine dive platform. The marine support team will visually monitor for inadvertent drilling fluid releases as the drill approaches the exit point. A dye will be added to the drilling fluid to aid in the detection of a release by the monitors positioned on the dive platform.

#### Pre-Lay Grapnel Run

Immediately prior to installation of the subsea cable(s), a pre-lay grapnel run will be carried out along the PLCN cable route, from the HDD conduit exit point, out to a depth of approximately 3,937 feet (1,200 meters). This same activity will occur for the cable segment.

but only be necessary from the HDD conduit exit point, out to the terminus of the cable segment 3.4 nautical miles (6.3 kilometers) offshore.

The purpose of the pre-lay grapnel run is to clear seafloor surface debris (i.e., wires or hawsers, derelict fishing gear, etc.) that may have been deposited along the route. Any debris recovered during these operations will be disposed ashore upon completion of the operations. A vessel will lower a suitable flatfish grapnel to the seafloor and proceed to tow the grapnel across the seafloor along the cable route. As the grapnel is dragged across the bottom, blade penetration of up to 15.7 inches (40 centimeters) is achieved, depending on seafloor composition. The grapnel activity will not be conducted near existing buried cables.

#### Cable Installation

The cable installation involves three steps: tie-in of the cable to the landing site, installation of the offshore cable, and post-lay inspection and burial. These three components are described in more detail below.

#### Cable Landing Tie-In

Prior to the day the cables are installed, divers will locate and expose ends of the HDD bore pipes, and pre-install a bell-mouth adaptor. On the day that cable installation begins, the cable ship will position itself approximately 330 feet (100 meters) seaward of the bore pipe exit point.

Divers will attach a wire messenger line from the cable ship, through the pre-installed bell-mouth, and to the pre-installed drill strings left in the bore pipes. If needed, the cable ship will apply floats to the cable to help facilitate controlled and proper cable transition from the vessel to the bore pipe on the seafloor. Divers will be positioned at the bore pipe exit point throughout the cable pulling process to monitor and ensure successful travel of the cable.

A winch, located onshore and adjacent to the beach manholes, will then pull the drill string, with the cable attached, through the bore pipe. After the cable has been landed and secured, a diver will swim to the cable to check on the condition of the cable on the seafloor. Adjustments will be made as needed to ensure proper cable slack and placement on the seabed and to reduce and/or eliminate chafing points.

#### Offshore Cable Installation

The cables will be installed by cable ship through state and federal waters. Where possible, the offshore cable will be buried to a target depth of 3.3 feet (1 meter) below the sea floor in water depths up to 3,937 feet (1,200 meters), beginning from the HDD bore pipe exit point. Through soft- bottom areas, the cable ship will install and bury the cable simultaneously using a sea plow. The plow is a burial tool resembling a large sled attached to the cable ship with a tow wire. The sea plow allows for mechanical burial of the cable to a desired depth, creating a furrow approximately 1.5 feet (0.5 meter) wide, and feeding the cable to the bottom of the furrow. The furrow is then backfilled by the collapsing of the trench sidewalls which are unstable due to their vertical geometry. In hard bottom areas and areas below 3,937 feet (1,200 meters) water depth, the cable will be laid directly on the ocean floor.

Computerized modeling and tracking will be utilized to control position and tension of the cable during laying activities, and correct for external factors such as wind and ocean currents. Information such as the planned cable route, bathymetry, the ship heading, position and speed, the cable characteristics, and layout speed are integrated into the software to optimize real time monitoring of the cable installation.

# Post-Lay Inspection and Burial

Where plow burial is not possible as part of the main cable installation (e.g., crossings of other in-service cables) or where the cable plow could not achieve the target depth due to bottom conditions, the cable will be surface-laid by the cable ship and subsequently buried through post-lay inspection and burial. The post-lay inspection and burial can take place any time after the initial marine installation is completed; however, it is expected to take place immediately following completion of the cable landing tie-ins for the PLCN cable and cable segment.

In deeper waters between 98 and 328 feet (30 and 100 meters), a remote- operated vehicle (ROV) undertakes post-lay inspection and burial. The ROV is a robotic device, which will be deployed and operated from the cable ship to which it is tethered. The ROV fluidizes the seafloor sediments beneath the cable by jetting to allow for cable settlement to the desired depth. The need for the above burial options will be determined once site-specific conditions are known.

Diver-assisted jet burial can be used in shallower depths, between 32 and 98 feet (10 and 30 meters), and involves fluidizing the seabed to facilitate cable burial by divers with hand jets.

## Terrestrial Conduit System

A conduit system will be installed from the cable landing site to the Equinix data center located at 1920 East Maple Avenue, in El Segundo, California. The conduit system will consist of four, 4-inch diameter, high- density polyethylene pipes (ducts). The route of the conduit system will originate at the beach manholes and run parallel to South Marine Avenue along the western side to the intersection of Vista Del Mar Boulevard and Imperial Highway.

One segment of the conduit system along South Marine Avenue will be installed via HDD to avoid impacts to restored southern foredune habitats. Jack and bore techniques may also be implemented to facilitate roadway crossings while minimizing traffic impacts..

Lastly, intermediate manholes will be installed at regular intervals along the conduit system to allow access to the system for cable installation, splicing, and maintenance. Two manholes will be placed at each interval to provide diversity of system access.

#### Upland Site Restoration

Native soils will be used, where appropriate, to backfill all upland excavations. Once excavations are backfilled, the areas will be compacted to reduce the likelihood of erosion and soil settlement, in conformance with the specifications of the local authority.

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Surface restoration will involve returning the impacted areas to preconstruction contours and elevations, as required by local ordinances. For excavations in paved surfaces, restoration entails pavement repair, curb and gutter reconstruction, and pavement re-striping, if needed.

# V. Project Location

<u>Latitude</u>	Longitude
33.942025	-118.441578
33.941997	-118.441562
33.943543	-118.456328
33.943085	-118.456383
33.942643	-118.456397
33.942147	-118.456410
33.943362	-118.519650
33.940140	-118.517973

Maps showing the Project location are found in Attachment B of this Order.

# VI. Project Impact and Receiving Waters Information

The Project is located within the jurisdiction of Los Angeles Regional Water Quality Control Board. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the applicable water quality control plan (Basin Plan) for the region and other plans and policies which may be accessed online at:

http://www.waterboards.ca.gov/plans\_policies/. The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.

Receiving Water:

Santa Monica Bay, Dockweiler Beach (Hydrologic Unit Code: 180701040500)

Designated Beneficial

IND, NAV, REC-1, REC-2, COMM, MAR, WILD, SPWN

Uses:

#### VII. Description of Direct Impacts to Waters of the State

Total Project fill/excavation quantities for all impacts are summarized in Table1. Permanent impacts are categorized as those resulting in a physical loss in area and also those degrading ecological condition only.

				Quantity Permanent Impact					
Aquatic Resource Type	Temporary Impact <sup>1</sup>			Physical Loss of Area			Degradation of Ecological Condition Only		
	Acres	CY2	LF	Acres	CY	LF	Acres	CY	LF
Ocean/bay/estuary					***************************************				15,840

#### VIII. Compensatory Mitigation

No compensatory mitigation is required for permanent impacts because there is no loss to the extent of waters of the state and because all areas of impact will continue to function as habitat. In addition, the Permittee will compensate for all Project-related impacts on hard bottom habitat through payment of a compensatory hard bottom mitigation fee using a methodology applied to recent California fiber optic cable projects by the California Coastal Commission (CCC). The fees are used to remove derelict fishing gear and other marine debris from waters in the Southern California Bight, and will be implemented pursuant to a Memorandum of Agreement by and between the CCC and the Regents of the University of California on behalf of the UC Davis Wildlife Health Center's California Lost Fishing Gear Recovery Project.

# IX. California Environmental Quality Act (CEQA)

On November 3, 2017, the City of Los Angeles , as lead agency, certified an environmenal impact report (EIR) (State Clearinghouse (SCH) No. 2016101050) for the Project and filed a Notice of Determination (NOD) at the Los Angeles County Clerk on November 3, 2017. The Los Angeles Water Board is a responsible agency under CEQA (Pub. Resources Code, § 21069) and in making its determinations and findings, must presume that the City of Los Angeles' certified environmental document comports with the requirements of CEQA and is valid. (Pub. Resources Code, § 21167.3). The Los Angeles Water Board has reviewed and considered the environmental document and finds that the environmental document prepared by the City of Los Angeles addresses the Project's water resource impacts. (Cal. Code Regs., tit. 14, § 15096, subd. (f).) The environmental document includes the mitigation monitoring and reporting program (MMRP) developed by the City of Los Angeles for all mitigation measures that have been adopted for the Project to reduce potential significant impacts. (Pub. Resources Code, § 21081.6, subd. (a)(1); Cal. Code Regs., tit. 14, § 15091, subd. (d).)

#### X. Petitions for Reconsideration

Any person aggrieved by this action may petition the State Water Board to reconsider this Order in accordance with California Code of Regulations, title 23, section 3867. A petition for reconsideration must be submitted in writing and received within 30 calendar days of the issuance of this Order.

#### XI. Fees Received

<sup>&</sup>lt;sup>1</sup> Includes only temporary direct impacts to waters of the state and does not include upland areas of temporary disturbance which could result in a discharge to waters of the state.

<sup>&</sup>lt;sup>2</sup> Cubic Yards (CY); Linear Feet (LF)

An application fee of \$720.00 was received on April 17, 2017. The fee amount was determined as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3), and was calculated as category A - Fill & Excavation Discharges (fee code 84) with the dredge and fill fee calculator. An additional fee of \$119,280 based on total Project impacts was received on November 1, 2017.

#### XII. Conditions

The Los Angeles Water Board has independently reviewed the record of the Project to analyze impacts to the environmentthe environment and designated beneficial uses within the watershedwatershed of the Project. In accordance with this Order, the Permittee may proceed with the Project under the following terms and conditions:

#### A. Authorization

Impacts to waters of the state shall not exceed quantities shown in Table 1.

#### B. Reporting and Notification Requirements

The following section details the reporting and notification types and timing of submittals. Requirements for the content of these reporting and notification types are detailed in Attachment C, including specifications for photo and map documentation during the Project. Written reports and notifications must be submitted using the Reporting and Notification Cover Sheet located in Attachment C, which must be signed by the Permittee or an authorized representative.

#### 1. Project Reporting

a. Annual Reporting: The Permittee shall submit an Annual Report each year on the anniversary of Project effective date Annual reporting shall continue until a Notice of Project Complete Letter is issued to the Permittee.

## 2. Project Status Notifications

- a. Request for Notice of Completion of Discharges Letter: The Permittee shall submit a Request for Notice of Completion of Discharges Letter following completion of active Project construction activities, including any required restoration and permittee-responsible mitigation. This request shall be submitted to the Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities. Upon acceptance of the request, Los Angeles Water Board staff shall issue a Notice of Completion of Discharges Letter to the Permittee which will end the active discharge period and associated annual fees.
- b. Request for Notice of Project Complete Letter: The Permittee shall submit a Request for Notice of Project Complete Letter when construction and/or any postconstruction monitoring is complete,<sup>3</sup> and no further Project activities will occur. This request shall be submitted to Los Angeles Water Board staff within thirty (30) days following completion of all Project activities. Upon approval of the request, the Los

<sup>&</sup>lt;sup>3</sup> Completion of post-construction monitoring shall be determined by Los Angeles Water Board staff and shall be contingent on successful attainment of restoration and mitigation performance criteria.

Angeles Water Board staff shall issue a Notice of Project Complete Letter to the Permittee which will end the post discharge monitoring period and associated annual fees.

- **3. Conditional Notifications and Reports:** The following notifications and reports are required as appropriate.
  - a. Accidental Discharges of Hazardous Materials<sup>4</sup>

Following an accidental discharge of a reportable quantity of a hazardous material, sewage, or an unknown material, the following applies (Wat. Code, § 13271):

- i. As soon as (A) Permittee has knowledge of the discharge or noncompliance,
   (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures then:
  - first call 911 (to notify local response agency)
  - then call Office of Emergency Services (OES) State Warning Center at: (800) 852-7550 or (916) 845-8911
  - Lastly follow the required OES procedures as set forth in: <a href="http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill Booklet Feb2014">http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill Booklet Feb2014</a> FINAL BW Acc.pdf
- **ii.** Following notification to OES, the Permittee shall notify Los Angeles Water Board, as soon as practicable (ideally within 24 hours). Notification may be via telephone, e-mail, or delivered written notice.
- **iii.** Within five (5) working days of notification to the Los Angeles Water Board, the Permittee must submit an Accidental Discharge of Hazardous Material Report.
- b. Violation of Compliance with Water Quality Standards: The Permittee shall notify the Los Angeles Water Board of any event causing a violation of compliance with water quality standards. Notification may be via telephone, e-mail, or delivered written notice.
  - i. Examples of noncompliance events include: lack of storm water treatment following a rain event, discharges causing a visible plume in a water of the state, and water contact with uncured concrete.
  - **ii.** This notification must be followed within three (3) working days by submission of a Violation of Compliance with Water Quality Standards Report.
- c. Modifications to Project

<sup>&</sup>lt;sup>4</sup> "Hazardous material" means any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. (Health & Saf. Code, § 25501.)

Project modifications may require an amendment of this Order. The Permittee shall give advance notice to Los Angeles Water Board staff if Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority by submitting a Modifications to Project Report. The Permittee shall inform Los Angeles Water Board staff of any Project modifications that will interfere with the Permittee's compliance with this Order.

- **d. Transfer of Property Ownership:** This Order is not transferable in its entirety or in part to any person or organization except after notice to the Los Angeles Water Board in accordance with the following terms:
  - i. The Permittee must notify the Los Angeles Water Board of any change in ownership or interest in ownership of the Project area by submitting a Transfer of Property Ownership Report. The Permittee and purchaser must sign and date the notification and provide such notification to the Los Angeles Water Board at least 10 days prior to the transfer of ownership.
  - **ii.** Until such time as this Order has been modified to name the purchaser as the permittee, the Permittee shall continue to be responsible for all requirements set forth in this Order.
- e. Transfer of Long-Term BMP Maintenance: If maintenance responsibility for post-construction BMPs is legally transferred, the Permittee must submit to the Los Angeles Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer or designer specifications. The Permittee must provide such notification to the Los Angeles Water Board with a Transfer of Long-Term BMP Maintenance Report at least 10 days prior to the transfer of BMP maintenance responsibility.

## C. Water Quality Monitoring

- 1. General: Continuous visual surface water monitoring shall be conducted to detect accidental discharge of construction related pollutants (e.g. drilling fluid, oil and grease, turbidity plume, or uncured concrete).
- 2. Accidental Discharges/Noncompliance: Upon occurrence of an accidental discharge of hazardous materials or a violation of compliance with a water quality standard, Los Angeles Water Board staff may require water quality monitoring based on the discharge constituents and/or related water quality objectives and beneficial uses.

#### D. Standard

1. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330, and California Code of Regulations, title 23, chapter 28, Article 6 commencing with sections 3867-3869, inclusive. Additionally, the Los Angeles Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to the Permittee, if the Los Angeles Water Board determines that: the Project fails to comply

with any of the conditions of this Order; or, when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) or federal Clean Water Act section 303 (33 U.S.C. § 1313). For purposes of Clean Water Act section 401(d), the condition constitutes a limitation necessary to assure compliance with water quality standards and appropriate requirements of state law.

- 2. This Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license, unless the pertinent certification application was filed pursuant to subsection 3855(b) of chapter 28, title 23 of the California Code of Regulations, and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- 3. This Order is conditioned upon total payment of any fee required under title 23 of the California Code of Regulations and owed by the Permittee.
- 4. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under state and federal law. For purposes of Clean Water Act, section 401(d), the applicability of any state law authorizing remedies, penalties, processes, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Order.

# E. General Compliance

- 1. Failure to comply with any condition of this Order shall constitute a violation of the Porter-Cologne Water Quality Control Act and the Clean Water Act. The Permittee and/or discharger may then be subject to administrative and/or civil liability pursuant to Water Code section 13385.
- 2. Permitted actions must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses for receiving waters as adopted in the Basin Plans by any applicable Los Angeles Water Board or any applicable State Water Board (collectively Water Boards) water quality control plan or policy. The source of any such discharge must be eliminated as soon as practicable.
- 3. In response to a suspected violation of any condition of this Order, the Los Angeles Water Board may require the holder of this Order to furnish, under penalty of perjury, any technical or monitoring reports the Water Boards deem appropriate, provide that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The additional monitoring requirements ensure that permitted discharges and activities comport with any applicable effluent limitations, water quality standards, and/or other appropriate requirement of state law.
- **4.** The Permittee must, at all times, fully comply with engineering plans, specifications, and technical reports submitted to support this Order; and all subsequent submittals required

as part of this Order. The conditions within this Order and Attachments supersede conflicting provisions within Permittee submittals.

- 5. This Order and all of its conditions contained herein continue to have full force and effect regardless of the expiration or revocation of any federal license or permit issued for the Project. For purposes of Clean Water Act, section 401(d), this condition constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements of state law.
- 6. Construction General Permit Requirement: The Permittee shall maintain compliance with conditions described in, and required by, NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ; NPDES No. CAS000002).

#### F. Administrative

- 1. Signatory requirements for all document submittals required by this Order are presented in Attachment A of this Order.
- 2. This Order does not authorize any act which results in the taking of a threatened, endangered or candidate species or any act, which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish & G. Code, §§ 2050-2097) or the federal Endangered Species Act (16 U.S.C. §§ 1531-1544). If a "take" will result from any act authorized under this Order held by the Permittee, the Permittee must obtain authorization for the take prior to any construction or operation of the portion of the Project that may result in a take. The Permittee is responsible for meeting all requirements of the applicable endangered species act for the Project authorized under this Order.
- 3. The Permittee shall grant Los Angeles Water Board staff, or an authorized representative (including an authorized contractor acting as a Water Board representative), upon presentation of credentials and other documents as may be required by law, permission to:
  - **a.** Enter upon the Project or compensatory mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records are kept.
  - **b.** Have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order.
  - **c.** Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order.
  - d. Sample or monitor for the purposes of assuring Order compliance.
- 4. A copy of this Order shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall remain at the Project site for the duration of this Order. The Permittee shall be responsible for work conducted by its consultants, contractors, and any subcontractors.

**5.** A copy of this Order must be available at the Project site(s) during construction for review by site personnel and agencies. All personnel performing work on the Project shall be familiar with the content of this Order and its posted location at the Project site.

#### G. Best Management Practices

# 1. Good Site Management "Housekeeping"

- The construction limits at the landing site will be clearly marked with high-visibility construction fencing prior to any ground-disturbing or construction-related activities. The remaining construction areas along the terrestrial conduit route will be delineated with cones. Per the Project's Mitigation Monitoring and Reporting Plan (MMRP), TBIO-1, sensitive habitat for the El Segundo Blue Butterfly will be delineated and flagged prior to the start of construction in those areas. Vegetation will be avoided with directional drilling at the beach and construction within the paved right-of-ways elsewhere.
- Measures will be implemented to prevent erosion from sand, soil or rock stockpiles, excavated materials, and excess soil materials into sensitive areas outside of the construction limits as a result of stormwater runoff.
- Preconstruction surveys for active migratory bird nests will occur within 14 days of the start
  of construction activities along all areas of ground disturbance if construction activities in
  these areas occur between February 1 and August 31 (the period covering the nesting
  season for most birds).
- If active nest sites are identified within 500 feet of Project-related activities, the Project shall impose a no disturbance buffer zone for all active nest sites prior to commencement of any Project-related construction activities to avoid construction or access-related disturbances to migratory bird nesting activities. Activities permitted within and the size of the no disturbance buffer shall be established by a qualified biologist based on the birds' behavior, nest location, surrounding landscape features, and proposed site activities in the vicinity.
- If the beach landing site is in a Special Protection Zone then activities will not be allowed until western snowy plovers are no longer present.
- If the area is not within a Special Protection Zone, a biologist trained in recognizing western snowy plover will conduct a survey of the sites to determine if plovers are present. The biologist will be present to monitor the establishment of the beach landing site to ensure that no western snowy plovers are injured or killed.
- The site will include fencing/walls that will prevent western snowy plovers from entering the
  work areas. The biologist will conduct weekly site visits to ensure that fence/walls are intact
  until construction activities are finished at the sites and all equipment is removed from the
  beach.
- All drivers of vehicles and machinery that are operated on sections of beach where snowy
  plovers may occur will be trained in snowy plover avoidance.

- Vehicles will avoid operating within Special Protection Zones. Vehicles simply transiting between points will not be allowed within these areas.
- Visible markers, will be placed at the inland corners of any Special Protection Zones adjacent to the beach landing construction sites to remind vehicle operators of their presence.
- A spill prevention control and countermeasures (SPCC) plan will be developed prior to beginning construction at the beach site. The SPCC plan will identify the appropriate spill containment measures that will be employed throughout project construction.
- Grapnel will not be deployed over hard bottom areas crossed by the cable routes.
- Vessels will generally be operating at relatively low speeds during the proposed project, allowing mobile species to avoid project vessels.
- Monitoring by a biologist familiar with federally protected marine mammal and sea turtle behavior will be conducted during all project activities that occur within the continental shelf of California.
- In the event that marine mammals or sea turtles are present in the immediate area of the
  project vessels or are approaching the work area such that interactions may occur, the
  biologist will have the authority to halt vessel operations until any risk of collision has
  passed.
- Vessels operating within 100 meters of federally protected species will modify operations and implement the following measures to reduce the potential for an adverse interaction with federally protected species:
  - Vessels shall maintain a minimum distance of 100 meters from the sighting location, when feasible.
  - Vessels shall not be permitted to cross directly in front of, or intersect, the path of sighted individuals.
  - If federally protected species are passing alongside the ship, the vessel operator shall maintain a steady heading and constant speed that is not faster than the sighted individuals' speed.
  - If sighted individuals demonstrate defensive or disturbed actions, the vessel shall slow, or be taken out of gear, until the animal calms and/or moves a safe distance away from the vessel.
  - o If federally protected species come within 100 meters of the vessels during installation, the crew will have the authority to suggest modifications in vessel operations and installation until the animal moves safely out of the area and remains unobserved for 15 minutes.
- Computerized modeling and tracking will be utilized to control position and tension of the cable during laying activities, as well as correct for external factors such as wind and ocean currents.

#### 2. Storm Water

The project shall comply with the local regulations associated with the Regional Board's Municipal Stormwater Permit issued to Los Angeles County and co-permittees under NPDES No. CAS004001 and Waste Discharge Requirements Order No. R4-2012-0175. The Project is expected to disturb slightly more than 1 acre during construction of subsurface infrastructure, mainly from construction of the terrestrial conduit route. As a result, the Project will obtain coverage under the National Pollution Discharge Elimination System (NPDES) General Permit for Discharges of Storm Water Associated with Construction Activity, Order No. 2009-0009-DWQ). The Construction General Permit requires the development of a Storm Water Pollution Prevention Plan (SWPPP) by a certified Qualified SWPPP Developer (QSD) for all aspects of project construction requiring clearing, vegetation removal (if any), grading, ditching, filling, embankment compaction, demolition, and/or excavation. BMPs defined in the plan will be used to control sediments from all vegetation removal (if any) or ground-disturbing activities.

BMPs included in the SWPPP and SPCC plans and NPDES permit conditions will include, but are not limited to, the following:

- Erosion control devices (e.g., silt fences) will be installed, as needed, to protect surface waters and other critical areas.
- Material that may be temporarily stored for use in project activities will be covered with
  plastic or other impervious material during rain events to prevent sediments from being
  washed from the storage area to surface waters outside of the construction area.
- All temporary and permanent erosion and sedimentation control measures will be inspected on a regular basis, maintained, and repaired to ensure continued performance of their intended function.
- Silt fences will be inspected after each rainfall, and at least daily during prolonged rainfall.
- Turbid water will be prevented from discharging to marine areas. Turbid wastewater may be routed to temporary or permanent detention facilities.
- All equipment to be used for construction activities will be cleaned and inspected prior
  to arriving at the project site to ensure no potentially hazardous materials are exposed,
  no leaks are present, and the equipment is functioning properly.
- Construction equipment and vehicles will be maintained to prevent them from leaking fuel or lubricants.
- Uncured concrete and/or concrete byproducts will be prevented from coming in contact with surface water that may enter marine waters during construction.
- A concrete truck chute cleanout area or equally effective BMP will be established to properly contain wet concrete.

# XIII. Water Quality Certification

I hereby issue the Order for the TRANSPACIFIC TELECOMMUNICATIONS CABLE HUB, 4WQC40117048 certifying that as long as all of the conditions listed in this Order are met, any discharge from the referenced Project will comply with the applicable provisions of Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards).

This discharge is also regulated pursuant to State Water Board Water Quality Order No. 2003-0017-DWQ which authorizes this Order to serve as Waste Discharge Requirements pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

Except insofar as may be modified by any preceding conditions, all Order actions are contingent on: (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the conditions of this Order and the attachments to this Order; and, (b) compliance with all applicable requirements of Statewide Water Quality Control Plans and Policies, the Regional Water Boards' Water Quality Control Plans and Policies.

Samuel Unger, PE

**Executive Officer** 

Los Angeles Water Quality Control Board

12-14-17

Date

Reg. Meas. ID: 413214 Place ID: 835173

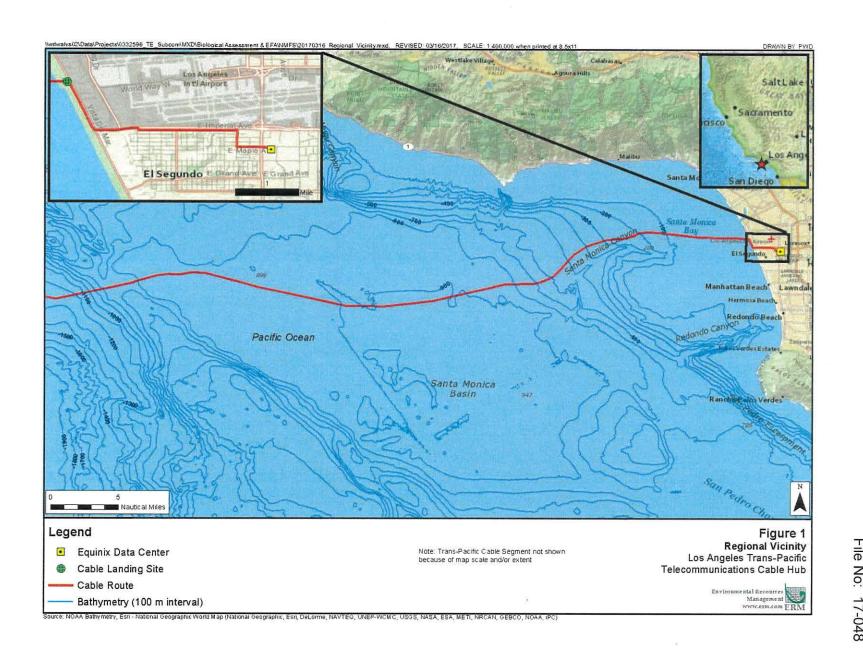
File No: 17-048

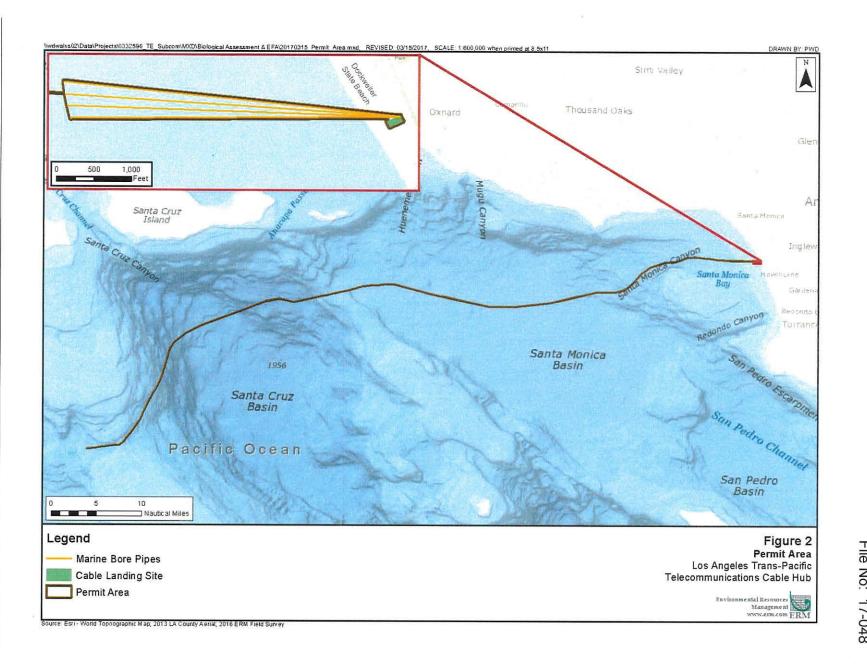
#### SIGNATORY REQUIREMENTS

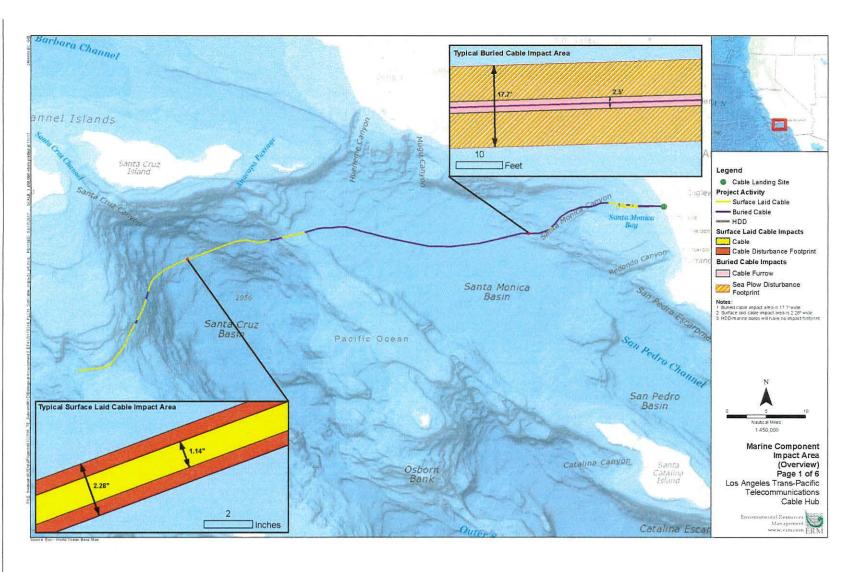
All Documents Submitted In Compliance With This Order Shall Meet The Following Signatory Requirements:

- 1. All applications, reports, or information submitted to the Los Angeles Water Quality Control Board (Los Angeles Water Board) must be signed and certified as follows:
  - a) For a corporation, by a responsible corporate officer of at least the level of vice-president.
  - b) For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
  - c) For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
- 2. A duly authorized representative of a person designated in items 1.a through 1.c above may sign documents if:
  - a) The authorization is made in writing by a person described in items 1.a through 1.c above.
  - b) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
  - c) The written authorization is submitted to the State Water Board Staff Contact prior to submitting any documents listed in item 1 above.
- 3. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."







# Copies of this Form

In order to identify your project, it is necessary to include a copy of the Project specific Cover Sheet below with your report: please retain for your records

# **Report Submittal Instructions**

- Check the box on the Report and Notification Cover Sheet next to the report or notification you are submitting.
  - Part A (Annual Report): This report will be submitted annually from the anniversary of Project effective date until a Notice of Project Complete Letter is issued.
  - Part B (Project Status Notifications): Used to notify the Los Angeles Water Board of the status of the Project schedule that may affect Project billing.
  - Part C (Conditional Notifications and Reports): Required on a case by case basis for accidental
    discharges of hazardous materials, violation of compliance with water quality standards, notification of
    in-water work, or other reports.
- 2. Sign the Report and Notification Cover Sheet and attach all information requested for the Report Type.
- 3. Electronic Report Submittal Instructions:
  - Submit signed Report and Notification Cover Sheet and required information via email to: Valerie.CarrilloZara@waterboards.ca.gov
  - Include in the subject line of the email:
     Subject: ATTN: Valerie CarrilloZara; File No: 17-048, Reg. Measure ID: 413214\_Report

# **Definition of Reporting Terms**

- 1. <u>Active Discharge Period:</u> The active discharge period begins with the effective date of this Order and ends on the date that the Permittee receives a Notice of Completion of Discharges Letter or, if no post-construction monitoring is required, a Notice of Project Complete Letter. The Active Discharge Period includes all elements of the Project including site construction and restoration, and any Permittee responsible compensatory mitigation construction.
- 2. Request for Notice of Completion of Discharges Letter: This request by the Permittee to the Los Angeles Water Board staff pertains to projects that have post construction monitoring requirements, e.g. if site restoration was required to be monitored for 5 years following construction. Los Angeles Water Board staff will review the request and send a Completion of Discharges Letter to the Permittee upon approval. This letter will initiate the post-discharge monitoring period and a change in fees from the annual active discharge fee to the annual post-discharge monitoring fee.
- 3. Request for Notice of Project Complete Letter: This request by the Permittee to the Los Angeles Water Board staff pertains to projects that either have completed post-construction monitoring and achieved performance standards or have no post-construction monitoring requirements, and no further Project activities are planned. Los Angeles Water Board staff will review the request and send a Project Complete

Letter to the Permittee upon approval. Termination of annual invoicing of fees will correspond with the date of this letter.

- 4. <u>Post-Discharge Monitoring Period:</u> The post-discharge monitoring period begins on the date of the Notice of Completion of Discharges Letter and ends on the date of the Notice of Project Complete Letter issued by the Los Angeles Water Board staff. The Post-Discharge Monitoring Period includes continued water quality monitoring or compensatory mitigation monitoring.
- 5. Effective Date: Date of Order issuance.

# **Map/Photo Documentation Information**

When submitting maps or photos, please use the following formats.

1. Map Format Information:

Preferred map formats of at least 1:24000 (1" = 2000') detail (listed in order of preference):

- GIS shapefiles: The shapefiles must depict the boundaries of all project areas and extent of aquatic
  resources impacted. Each shape should be attributed with the extent/type of aquatic resources
  impacted. Features and boundaries should be accurate to within 33 feet (10 meters). Identify
  datum/projection used and if possible, provide map with a North American Datum of 1983 (NAD38) in
  the California Teale Albers projection in feet.
- Google KML files saved from Google Maps: My Maps or Google Earth Pro. Maps must show the
  boundaries of all project areas and extent/type of aquatic resources impacted. Include URL(s) of maps.
  If this format is used include a spreadsheet with the object ID and attributed with the extent/type of
  aquatic resources impacted.
- Other electronic format (CAD or illustration format) that provides a context for location (inclusion of landmarks, known structures, geographic coordinates, or USGS DRG or DOQQ). Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
- Aquatic resource maps marked on paper USGS 7.5 minute topographic maps or Digital Orthophoto
  Quarter Quads (DOQQ) printouts. Maps must show the boundaries of all project areas and extent/type
  of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and
  attributed with the extent/type of aquatic resources impacted.
- 2. <u>Photo-Documentation:</u> Include a unique identifier, date stamp, written description of photo details, and latitude/longitude (in decimal degrees) or map indicating location of photo. Successive photos should be taken from the same vantage point to compare pre/post construction conditions.

Reg. Meas. ID: 413214 Place ID: 835173

File No: 17-048

	REPORT AND	NOTIFICATION COVER SHEET
Project:	TransPacific Tele	communications Cable Hub
Permittee:	Tyco Electronics	s Subsea Communications LLC
Reg. Meas. ID:	413214	Place ID: 835173
		File No: 17-048

Report Type Submitted					
	Part A – Project Reporting				
Report Type	☐ Annual Report				
	Part B - Project Status Notifications				
Report Type	□ Commencement of Construction				
Report Type	☐ Request for Notice of Completion of Discharges Letter	5075			
Report Type	☐ Request for Notice of Project Complete Letter				
	Part C - Conditional Notifications and Reports				
Report Type	☐ Accidental Discharge of Hazardous Material Report				
Report Type	☐ Violation of Compliance with Water Quality Standards Report				
Report Type	☐ In-Water Work/Diversions Water Quality Monitoring Report				
Report Type	☐ Modifications to Project Report				
Report Type	☐ Transfer of Property Ownership Report				
Report Type	☐ Transfer of Long-Term BMP Maintenance Report				

TransPacific Telecommunications Cable Hub Attachment C

Reg. Meas. ID: 413214 Place ID: 835173 File No: 17-048

"I certify under penalty of law that I have personally exain this document and all attachments and that, based or responsible for obtaining the information, I believe that aware that there are significant penalties for submitting imprisonment."	on my inquiry of those individuals immediately the information is true, accurate, and complete. I am
Print Name <sup>1</sup>	Affiliation and Job Title
Signature	Date
Signature	Date
<sup>1</sup> STATEMENT OF AUTHORIZATION (include application was submitted)	if authorization has changed since
	act in my behalf as my representative in the uest, supplemental information in support of this
	× 2
Permittee's Signature	Date
*This Report and Notification Cover Sheet must representative and included with all written subn	

# Part A – Project Reporting

Report Type	Annual Report
Report Purpose	Notify the Los Angeles Water Board staff of Project status during both the active discharge and post-discharge monitoring periods.
When to Submit	Annual reports shall be submitted each year on the anniversary of the Project effective date. Annual reports shall continue until a Notice of Project Complete Letter is issued to the Permittee.
Report Contents	The contents of the annual report shall include the topics indicated below for each project period. Report contents are outlined in Annual Report Topics below.
	During the Active Discharge Period
	Topic 1: Construction Summary
	<ul> <li>Topic 2: Mitigation for Temporary Impacts Status</li> <li>Topic 3: Compensatory Mitigation for Permanent Impacts Status</li> </ul>
	<ul> <li>During the Post-Discharge Monitoring Period</li> <li>Topic 2: Mitigation for Temporary Impacts Status</li> <li>Topic 3: Compensatory Mitigation for Permanent Impacts Status</li> </ul>
	Annual Report Topics (1-3)
Annual Report Topic 1	Construction Summary
When to Submit	With the annual report during the Active Discharge Period.
Report Contents	<ol> <li>Project progress and schedule including initial ground disturbance, site clearing and grubbing, road construction, site construction, and the implementation status of construction storm water best management practices (BMPs). If construction has not started, provide estimated start date and reasons for delay.</li> <li>Map showing general Project progress.</li> <li>If applicable:         <ol> <li>Summary of Conditional Notification and Report Types 6 and 7 (Part C below).</li> <li>Summary of Certification Deviations. See Certification Deviation Attachment for further information.</li> </ol> </li> </ol>
Annual Report Topic 2	Mitigation for Temporary Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post- Discharge Monitoring Period.

Report Contents	Planned date of initiation and map showing locations of mitigation for temporary impacts to waters of the state and all upland areas of temporary disturbance which could result in a discharge to waters of the state.  If mitigation for temporary impacts has already commenced, provide a map.
	2. If mitigation for temporary impacts has already commenced, provide a map and information concerning attainment of performance standards contained in the restoration plan.
Annual Report Topic 3	Compensatory Mitigation for Permanent Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post- Discharge Monitoring Period.
Report Contents	*If not applicable report N/A.  Part A. Permittee Responsible  1. Planned date of initiation of compensatory mitigation site installation.  2. If installation is in progress, a map of what has been completed to date.  3. If the compensatory mitigation site has been installed, provide a final map and information concerning attainment of performance standards contained in the compensatory mitigation plan.
	Part B. Mitigation Bank or In-Lieu Fee  1. Status or proof of purchase of credit types and quantities.  2. Include the name of bank/ILF Program and contact information.  3. If ILF, location of project and type if known.

# Part B – Project Status Notifications

Report Type	Commencement of Construction
Report Purpose	Notify Los Angeles Water Board staff prior to the start of construction.
When to Submit	Must be received at least seven (7) days prior to start of initial ground disturbance activities.
Report Contents	<ol> <li>Date of commencement of construction.</li> <li>Anticipated date when discharges to waters of the state will occur.</li> <li>Project schedule milestones including a schedule for onsite compensatory mitigation, if applicable.</li> </ol>

Report Type	Request for Notice of Completion of Discharges Letter			
Report Purpose	Notify Los Angeles Water Board staff that post-construction monitoring is required and that active Project construction, including any mitigation and permittee responsible compensatory mitigation, is complete.			
When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities.			
Report Contents	<ol> <li>Status of storm water Notice of Termination(s), if applicable.</li> <li>Status of post-construction storm water BMP installation.</li> <li>Pre- and post-photo documentation of all Project activity sites where the discharge of dredge and/or fill/excavation was authorized.</li> <li>Summary of Certification Deviation discharge quantities compared to initial authorized impacts to waters of the state, if applicable.</li> <li>An updated monitoring schedule for mitigation for temporary impacts to waters of the state and permittee responsible compensatory mitigation during the post-discharge monitoring period, if applicable.</li> </ol>			

Report Type	Request for Notice of Project Complete Letter
Report Purpose	Notify Los Angeles Water Board staff that construction and/or any post- construction monitoring is complete, or is not required, and no further Project activity is planned.
When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents	Part A: Mitigation for Temporary Impacts  1. A report establishing that the performance standards outlined in the restoration plan have been met for Project site upland areas of temporary disturbance which could result in a discharge to waters of the state.
	2. A report establishing that the performance standards outlined in the restoration plan have been met for restored areas of temporary impacts to waters of the state. Pre- and post-photo documentation of all restoration sites.

# Part B: Permittee Responsible Compensatory Mitigation

- **3.** A report establishing that the performance standards outlined in the compensatory mitigation plan have been met.
- **4.** Status on the implementation of the long-term maintenance and management plan and funding of endowment.
- 5. Pre- and post-photo documentation of all compensatory mitigation sites.
- 6. Final maps of all compensatory mitigation areas (including buffers).

# Part C: Post-Construction Storm Water BMPs

- 7. Date of storm water Notice of Termination(s), if applicable.
- 8. Report status and functionality of all post-construction BMPs.

# Part C – Conditional Notifications and Reports

Report Type	Accidental Discharge of Hazardous Material Report
Report Purpose	Notifies Los Angeles Water Board staff that an accidental discharge of hazardous material has occurred.
When to Submit	Within five (5) working days following the date of an accidental discharge. Continue reporting as required by Los Angeles Water Board staff.
Report Contents	<ol> <li>The report shall include the OES Incident/Assessment Form, a full description and map of the accidental discharge incident (i.e. location, time and date, source, discharge constituent and quantity, aerial extent, and photo documentation). If applicable, the OES Written Follow-Up Report may be substituted.</li> <li>If applicable, any required sampling data, a full description of the sampling</li> </ol>
	methods including frequency/dates and times of sampling, equipment, locations of sampling sites.
	3. Locations and construction specifications of any barriers, including silt curtains or diverting structures, and any associated trenching or anchoring.

Report Type	Violation of Compliance with Water Quality Standards Report
Report Purpose	Notifies Los Angeles Water Board staff that a violation of compliance with water quality standards has occurred.
When to Submit	The Permittee shall report any event that causes a violation of water quality standards within three (3) working days of the noncompliance event notification to Los Angeles Water Board staff.
Report Contents	The report shall include: the cause; the location shown on a map; and the period of the noncompliance including exact dates and times. If the noncompliance has not been corrected, include: the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and any monitoring results if required by Los Angeles Water Board staff.

Report Type	In-Water Work and Diversions Water Quality Monitoring Report
Report Purpose	Notifies Los Angeles Water Board staff of the completion of in-water work.
When to Submit	Within three (3) working days following the completion of in-water work.  Continue reporting in accordance with the approved water quality monitoring plan.
Report Contents	As required by the approved water quality monitoring plan.

Report Type	Modifications to Project Report

Report Purpose	Notifies Los Angeles Water Board staff if the Project, as described in the application materials, is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority.
When to Submit	If Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority.
Report Contents	A description and location of any alterations to Project implementation.  Identification of any Project modifications that will interfere with the Permittee's compliance with the Order.

Report Type	Transfer of Property Ownership Report
Report Purpose	Notifies Los Angeles Water Board staff of change in ownership of the Project or Permittee-responsible mitigation area.
When to Submit	At least 10 working days prior to the transfer of ownership.
Report Contents	<ol> <li>A statement that the Permittee has provided the purchaser with a copy of this Order and that the purchaser understands and accepts:         <ul> <li>a. the Order's requirements and the obligation to implement them or be subject to administrative and/or civil liability for failure to do so; and</li> <li>b. responsibility for compliance with any long-term BMP² maintenance plan requirements in this Order.</li> </ul> </li> <li>A statement that the Permittee has informed the purchaser to submit a written request to the Los Angeles Water Board to be named as the permittee in a revised order.</li> </ol>

Report Type	Transfer of Long-Term BMP Maintenance Report
Report Purpose	Notifies Los Angeles Water Board staff of transfer of long-term BMP maintenance responsibility.
When to Submit	At least 10 working days prior to the transfer of BMP maintenance responsibility.
Report Contents	A copy of the legal document transferring maintenance responsibility of post- construction BMPs.

<sup>&</sup>lt;sup>2</sup> Best Management Practices (BMPs) is a term used to describe a type of water pollution or environmental control.