
	<b>Section 404 Permit Application</b>		 DAVID EVANS AND ASSOCIATES INC.
	Document Number: J1-000-RGL-PMT-DEA-00002-00		
	Rev.: B	Rev. Date: October 13, 2017	

## Section 404 / 10 Permit Application

# Joint Permit Application

This is a joint application, and must be sent to both agencies, who administer separate permit programs. Alternative forms of permit applications may be acceptable; contact the Corps and DSL for more information.

Date Stamp



**U.S. Army Corps of Engineers  
Portland District**



**Oregon Department of State  
Lands**

Corps Action ID Number

DSL Number

## (1) APPLICANT AND LANDOWNER CONTACT INFORMATION

	Applicant	Property Owner (if different)	Authorized Agent (if applicable) <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Contractor
Contact Name	Caroline Burda	Fort Chicago Holdings II, LLC	Attn: Derik Vowels
Business Name	Jordan Cove LNG, LLC	125 Central Avenue, Suite 380 Coos Bay, OR 97420	David Evans and Associates, Inc.
Mailing Address 1	5615 Kirby, Suite 500	APCO Coos Properties, LLC.	2100 SW River Parkway
Mailing Address 2		PO Box 300	
City, State, Zip	Houston, TX 77005	Coos Bay, OR 97420	Portland, OR 97201
Business Phone	713-400-2800		503-223-6663
Cell Phone			
Fax			
Email	caroline.burda@jordanco velng.com		derik.vowels@deainc.com

## (2) PROJECT INFORMATION

### A. Provide the project location.

Project Name Jordan Cove Energy Project	Tax Lot # See Figures 1.2-1 to 1.2-9	<a href="#">Latitude &amp; Longitude*</a> Latitude: 43.425346 (approximate) Longitude: 124.16767 (approximate)	
Project Address / Location South of Trans Pacific Parkway; West of US Highway 101.	City (nearest) North Bend	County Coos	
Township 25S	Range 13W	Section Various	Quarter/Quarter Various

Brief Directions to the Site  
See Figure 1.1

### B. What types of waterbodies or wetlands are present in your project area? (Check all that apply.)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> River / Stream                      | <input checked="" type="checkbox"/> Non-Tidal Wetland | <input type="checkbox"/> Lake / Reservoir / Pond |
| <input checked="" type="checkbox"/> Estuary or Tidal Wetland | <input type="checkbox"/> Other                        | <input type="checkbox"/> Pacific Ocean           |

**(2) PROJECT INFORMATION**

Waterbody or Wetland Name**	River Mile	<u>6<sup>th</sup> Field HUC Name</u>	<u>6<sup>th</sup> Field HUC (12 digits)</u>
Coos Bay	7.3		

**C. Indicate the project category. (Check all that apply.)**

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Commercial Development                 | <input checked="" type="checkbox"/> Industrial Development | <input type="checkbox"/> Residential Development |
| <input type="checkbox"/> Institutional Development              | <input type="checkbox"/> Agricultural                      | <input type="checkbox"/> Recreational            |
| <input checked="" type="checkbox"/> Transportation              | <input type="checkbox"/> Restoration                       | <input type="checkbox"/> Bank Stabilization      |
| <input checked="" type="checkbox"/> Dredging                    | <input type="checkbox"/> Utility lines                     | <input type="checkbox"/> Survey or Sampling      |
| <input checked="" type="checkbox"/> In- or Over-Water Structure | <input type="checkbox"/> Maintenance                       | <input type="checkbox"/> Other:                  |

\* In decimal format (e.g., 44.9399, -123.0283)

\*\* If there is no official name for the wetland or waterway, create a unique name (such as "Wetland 1" or "Tributary A").

**(3) PROJECT PURPOSE AND NEED****Provide a statement of the purpose and need for the overall project.**

The Project is a market-driven response to the burgeoning and abundant natural gas supply in the US Rocky Mountain and Western Canada markets, and the growth of international demand, particularly in Asia.

The overall Project purpose and need is to construct a natural gas liquefaction and deep-water export terminal capable of receiving and loading ocean-going LNG carriers, in order to export natural gas derived from a point near the intersections of the GTN Pipeline system and Ruby Pipeline system.

The Pipeline receipt point near the intersection of the GTN Pipeline system and Ruby Pipeline system is strategically located to give reliable and secure supplies of natural gas from two natural gas supply basins – one in the U.S. Rocky Mountains (through the existing Ruby Pipeline) and a second in western Canada (through the existing GTN Pipeline) – capable of delivering volumes of at least 1,200,000 Dth/d in order to support export of 7.8 mtpa of LNG.

PCGP held an open season for transportation service on the Pipeline in July of 2017. PCGP has executed precedent agreements totaling 96% of the Pipeline's capacity.

**(4) DESCRIPTION OF RESOURCES IN PROJECT AREA****A. Describe the existing physical and biological characteristics of each wetland or waterway. Reference the wetland and waters delineation report if one is available. Include the list of items provided in the instructions.****1. INTRODUCTION**

For the sake of providing clarity, this introduction includes a limited summary of project-specific nomenclature used throughout this application. Project components are described in detail in Section 6 (Attachment A) of this Joint Permit Application (JPA).

**Jordan Cove Energy Project, LP ("JCEP")** – project proponent to construct the LNG Terminal.

**Pacific Connector Gas Pipeline, LP ("PCGP")** – project proponent to construct the natural gas transmission pipeline (the "Pipeline").

**LNG Terminal** – the Liquefied Natural Gas ("LNG") Terminal is composed of Ingram Yard, the Access and Utility Corridor, and the South Dunes site. The LNG Terminal includes all building infrastructure, machinery, utilities, and other project components associated with the receipt, liquefaction, storage, and loading of LNG onto ocean-going LNG carriers for export.

**JCEP Project Area** – the limits of disturbance associated with all permanent and temporary impacts resulting from construction of the LNG Terminal, including temporary construction sites and mitigation sites.

**JCEP Project Vicinity** – the JCEP Project Area and the general area beyond, as shown in Figure 1.1.

#### (4) DESCRIPTION OF RESOURCES IN PROJECT AREA

**Ingram Yard** – the portion of the LNG Terminal site that will house permanent LNG Terminal facilities, including LNG tanks and liquefaction equipment

**Access Channel** – the in-water area to be dredged that will provide LNG vessel access from the Federal Navigation Channel (“FNC”) to the marine slip. The area will also include a material off-loading facility (“MOF”) and temporary materials barge berth.

**Access and Utility Corridor** – a corridor connecting Ingram Yard and the South Dunes site, which will provide temporary construction and permanent access roads and facilities, and will include the Fire Department Facility, underground utilities, and gas feed to the LNG Terminal.

**South Dunes Site** - the portion of the LNG Terminal site that will house temporary construction and permanent facilities including a Workforce Housing Facility, metering station, administrative building, and the Southwest Oregon Regional Safety Center (“SORSC”), which will provide emergency response services for the facility and the southern Oregon region.

**Trans Pacific Parkway and U.S. Highway 101 (“US-101”) Intersection Widening** – the asymmetrical widening of Trans Pacific Parkway to the north and US-101 to the west to provide safe ingress/egress for construction traffic, by creating a left-turn lane from Trans Pacific Parkway onto northbound US-101, and a right-turn lane from US-101 onto Trans Pacific Parkway.

**APCO Sites 1 and 2** – two vacant sites on North Point, separated by a mudflat, that will be used for dredge material disposal and construction material laydown.

**Temporary Construction Sites** – additional sites outside of the immediate project construction footprint, which will provide space for construction staging, temporary equipment laydown, and employee park & rides. These areas include the Port Laydown site, Roseburg, Boxcar Hill, Myrtlewood and Ride and Mill Casino Park and Rides and APCO Site.

**Meteorological Station** - a permanent facility consisting of a tower located on the west side of the lagoon on the North Spit, used to measure wind speed, direction, and other weather data to provide weather information to the LNG Terminal facility and to support ship navigation.

**Kentuck Project Site** – approximately 100-acre proposed mitigation and habitat restoration site associated with the LNG Terminal and the Pipeline

**Eelgrass Mitigation Site** – approximately 9.3-acre proposed mitigation site for unavoidable eelgrass impacts associated with dredging of the access channel.

**HMT** – for the purpose of Clean Water Act (CWA) compliance, federal jurisdiction extends to the High Tide Line (HTL) in tidal waters. For the purpose of Oregon State Removal-Fill Act compliance, state jurisdiction extends to Highest Measured Tide (HMT). JCEP has received concurrence from DSL establishing HMT at elevation 10.26 feet North American Vertical Datum of 1988 (“NAVD 88”). To simplify impact calculations and accounting, and to minimize potential confusion arising from slightly different jurisdictional boundaries, JCEP has chosen to measure impacts in tidal waters up to the higher, more conservative HMT for both federal and state purposes.

## 2. WETLANDS

Historically, wetlands in the JCEP Project vicinity consisted of interdunal freshwater wetlands and tidal salt marsh. However, considerable development and land alteration have occurred in much of the proposed JCEP Project Area over the past century or so. Current-day freshwater wetlands being impacted by the proposed LNG Terminal consist of a combination of remnant wetlands surrounded by adjacent fill material and new wetlands that formed on top of fill.

Wetland delineations were conducted throughout the JCEP Project Area in February and March of 2013 and in June and December of 2016. Additional wetland delineations were conducted at the temporary construction sites during 2017.

Table 4.1, below, summarizes the wetland delineations conducted within the JCEP Project Area and Preliminary Jurisdictional Determinations (“JDs”) received from the U.S. Army Corps of Engineers

#### (4) DESCRIPTION OF RESOURCES IN PROJECT AREA

("USACE") to date. The Preliminary JDs received to date are provided in Attachments C.1 to C.3. The wetland delineation reports and wetland determination technical memos detailing the location, hydrology, and dominant vegetation species for wetlands throughout the JCEP Project Area are provided in Attachment C.5 to C.8 where JDs have not yet been granted. Since it's been multiple years since some of the JDs have been issued, new or revised JDs are being requested for wetlands as outlined in the technical memo provided in Attachment C.9. Figures 4.1-1 to 4.1-7 show delineated wetlands within the JCEP Project Vicinity. Wetland impact quantities are provided in the Bulk Upload Template, Table 4-2. Functional assessments of these wetlands are included in the Compensatory Wetland Mitigation Plan (Attachment J). Wetlands throughout the various portions of the JCEP Project Area are summarized in the following section.

##### Ingram Yard

Tidal wetlands are generally lacking at the slip location and nearby shoreline; however, they occur within the Henderson Property located to the west of Ingram Yard. Tidal wetlands to be impacted by the Project at Ingram Yard consist of limited areas of salt marsh that transition to a relatively narrow bench of intertidal and shallow subtidal mudflat that drops off abruptly where it meets the FNC. The hydrogeomorphic ("HGM") class of wetlands to be impacted is "estuarine fringe," which extends down to a depth of 2 meters (6.6 feet) or approximately mean daily lower tide. No HGM class is provided for resources below the 2-meter depth. Cowardin classes of site resources include estuarine, intertidal, unconsolidated shore, regularly flooded (E2USN), and estuarine, subtidal, unconsolidated bottom, subtidal (E1UBL).

Most of the freshwater wetlands on upland areas of Ingram Yard are of the depressional HGM class, with hydrology primarily driven by the regional groundwater table. Based on the Cowardin classification system, these wetlands are the following classes: PEMA (palustrine emergent), PEMF (palustrine forested), and PSS and PSSC (palustrine scrub-shrub). Vegetation types include forested, scrub-shrub, and herbaceous communities. Plant communities are dominated by native species, with varying amounts of non-native species present.

##### Access and Utility Corridor

Freshwater emergent wetlands identified within the Access and Utility Corridor are characterized as Cowardin class PSSC, PFOC, and PEMF. Similar to the wetlands at Ingram Yard, the HGM class of these wetlands is depressional, with hydrology primarily driven by the regional groundwater table. Vegetation consists of forested, scrub-shrub, and herbaceous plant communities.

##### South Dunes Site

Tidal wetlands at the South Dunes site are located along the eastern and western shoreline of Jordan Cove (the water body) and at the southeastern tip of the South Dunes site. Wetlands adjacent to Jordan Cove are classified as estuarine intertidal emergent (i.e., salt marsh) based on the Cowardin system. These features are classified as estuarine wetlands based on the HGM system. Wetlands on the southeastern tip of the site consist of tidal marsh, as noted in the Wetlands J& H Technical Memo (Attachment C.10).

Freshwater wetlands in upland areas of the South Dunes site are classified as palustrine aquatic bed (PABH), palustrine emergent (PEM and PEMA), and palustrine scrub-shrub (PSS). These features are classified as depressional based on the HGM system, and hydrology is primarily driven by the regional groundwater table. Vegetation is characterized by scrub-shrub and herbaceous communities, and the presence of non-native and invasive species varies by wetland. As detailed in Attachment C.4, wetlands F and G are regulated by Oregon Department of Environmental Quality ("DEQ") under National Pollutant Discharge Elimination System ("NPDES") Permit No. 101499 and Solid Waste Permit No. 1142, and therefore are not subject to regulation under Section 404, per 33 Code of Federal Regulations ("CFR") 328.3(a)(8). These water bodies were designed to be sludge ponds to provide waste treatment for a mill that formerly occupied the property.

##### APCO Sites 1 and 2

Tidal and freshwater wetlands at APCO Sites 1 and 2 mostly occur outside of the JCEP Project Area, and therefore are generally outside the wetland delineation study boundary for these sites. The source

#### (4) DESCRIPTION OF RESOURCES IN PROJECT AREA

of wetland hydrology at delineated wetlands is primarily a function of either tidal exchange with Coos Bay (in tidal wetlands) or precipitation (in freshwater wetlands).

Tidal wetlands between APCO Site 1 and APCO Site 2 are classified as estuarine intertidal emergent (i.e., salt marsh) based on the Cowardin system. These features would be classified as estuarine wetlands based on the HGM system. These wetlands transition to intertidal mudflats.

Freshwater wetlands on the west, north, and east sides of the sites are classified as palustrine scrub-shrub wetlands based on the Cowardin system and as slope wetlands based on the HGM system. These extend off-site and transition to tidal wetlands. Freshwater wetlands in upland, central portions of the site are characterized as palustrine scrub-shrub wetlands based on the Cowardin system and as depressional wetlands based on the HGM system.

A wetland survey performed in July 2017 along the north shore of APCO Site 2 confirmed that no wetlands are present within the proposed corridor where the temporary dredge line will be placed, see Attachment C.8.

##### **Kentuck Project Site**

Tidal wetlands which are located along the edge of Coos Bay adjacent to the Kentuck Project site include estuarine intertidal emergent wetlands (i.e., salt marsh) based on the Cowardin system. These features are classified as estuarine wetlands based on the HGM system.

Emergent wetlands at the Kentuck Project site primarily consist of non-native lawn grasses and invasive species, as a result of the site's prior use as a golf course. Some native species are present. Portions of the Kentuck Project site, south of Golf Course Lane, also contain forested wetlands. Hydrology for wetlands at the Kentuck Project site is driven by a seasonally high groundwater table. Wetlands at the Kentuck Project site are classified as PEM and PFO based on the Cowardin system and as slope/flats based on the HGM system.

##### **Temporary Construction Sites and Meteorological Station**

Wetland surveys have been conducted at the Boxcar Hill site, the Port Laydown site, Myrtlewood Offsite Park & Ride, the Meteorological Station and access road, and along Trans Pacific Parkway north of the LNG Terminal site. The status of subsequent wetland determination memos and delineation reports are summarized below in Table 4.1.

Wetlands delineated at the Boxcar Hill site are freshwater and classified as palustrine scrub-shrub/emergent (PSS/PEM) according to the Cowardin classification system, and as depressional according to the HGM system. Hydrology is driven by a high groundwater table associated with sandy soils. Vegetation is characterized by shrubs with an emergent understory.

Freshwater wetlands delineated at the Port Laydown site are characterized as palustrine scrub-shrub/emergent (PSS/PEM) according to the Cowardin classification system, and as depressional based on the HGM system. These wetlands are also dominated by shrub vegetation with an emergent understory. Hydrology is derived from groundwater as well as saturation from runoff. At the Myrtlewood Offsite Park & Ride, wetlands with emergent, scrub-shrub, and forested components are located outside the site, but no wetlands were found within the site boundaries.

At the Mill Casino parking and laydown area, a wetland delineation will be undertaken when JCEP obtains access to the site from its owner, the Coquille Indian Tribe Trust, to perform environmental surveys.

**(4) DESCRIPTION OF RESOURCES IN PROJECT AREA****Table 4.1. Summary of Wetland Delineations and Jurisdictional Determinations as of 10/10/2017**

<b>USACE ID #</b>	<b>Prepared by</b>	<b>Report Title Description</b>	<b>Geographic Coverage</b>	<b>Jurisdictional Determination (JD)</b>
NWP-2012-441	DEA*	Linerboard/Mill Site	Linerboard/Mill Site (South Dunes)	March 13, 2014 (Attachment C.1)
NWP-2012-441	SHN**	Jordan Cove Energy Project, March 2013	Roseburg Property, Trans Pacific Parkway west of causeway and at US-y 101 intersection, northern end of US-101 bridge over Coos Bay	March 13, 2014 (Attachment C.1)
NWP-2012-441	SHN	Jordan Cove Energy Project, March 2013 (Revised)	Roseburg Property, Trans Pacific Parkway west of causeway and at US-y 101 intersection, northern end of US-101 bridge over Coos Bay	March 13, 2014 (Attachment C.1)
NWP-2012-441	DEA	APCO Coos Properties, April 2013	APCO Sites 1 and 2	March 13, 2014 (Attachment C.1)
NWP-2012-441	DEA	APCO Coos Properties, May 2013 (revised)	APCO Sites 1 and 2	March 13, 2014 (Attachment C.1)
NWP-2012-441	DEA	Kentuck Slough Golf Course Wetland Delineation (2009) and Reissuance (2016)	Kentuck Mitigation Project Site	March 13, 2014 (Attachment C.1)
NWP-2012-441	DEA	Kentuck Mitigation Site Expanded Area	Kentuck Project site south of Golf Course Lane, including irrigation pond	October 28, 2014 (Attachment C.2)
NWP-2016-265	DEA	Boxcar Hill Delineation Report, February 2017	Boxcar Hill site temporary construction site	March 16, 2017 (Attachment C.3)
N/A	DEA	Port Stockpile Site Delineation Report	Port Stockpile Site (aka Port Laydown site)	Attachment C.5
N/A	DEA	Trans Pacific Parkway Lagoon to Boxcar Delineation Report	Trans Pacific Parkway north of LNG Terminal site	Attachment C.6
N/A	DEA	Myrtlewood Determination Memo	Myrtlewood Offsite Park & Ride	Attachment C.7
N/A	DEA	APCO Wetland Determination Memo	Temporary Dredge Line at APCO Site 2	Attachment C.8

\*DEA = David Evans and Associates, Inc.

\*\*SHN = SHN Engineers and Geologists, Inc.

## **(4) DESCRIPTION OF RESOURCES IN PROJECT AREA**

### **3. MUDFLATS**

Mudflat resources within the JCEP Project Area are described in the wetland delineation reports for the JCEP Project Area that are included in Attachments C.1 to C.8 and Figures 4.1-1 to 4.1-7. Quantities for impacts to mudflats are provided in the Bulk Upload Template (Table 4.2). Mudflats throughout the various portions of the JCEP Project Area are briefly summarized in the following section.

#### **Ingram Yard**

The JCEP Project Area will affect mudflats in the area of the proposed access channel. Mudflats adjacent to the proposed access channel consist of unvegetated sand to mud substrates in the shallowest intertidal areas, which are regularly inundated by brackish water and are influenced by tidal flux, resulting in cycles of saturation and exposure. These transition along a relatively narrow bench through shallow subtidal areas and vegetated shallows, before dropping off abruptly at the adjacent FNC. Plant life is not typically abundant along these intertidal mudflats and adjacent shallow subtidal areas.

#### **South Dunes Site**

The estuarine intertidal emergent wetlands along Jordan Cove transition into a larger expanse of sparsely vegetated and unvegetated mudflats within Jordan Cove. These areas would not be disturbed by activities associated with the Project.

#### **Trans Pacific Parkway/US-101 Intersection Widening**

The in-water work area associated with the Trans Pacific Parkway/US-101 Intersection Widening consists of intertidal mudflats characterized by mud and sand, with some limited algae growth. A portion of habitat below HMT includes riprap and roadway embankment. This area was part of the open estuarine environment of Coos Bay until it was built up by placement of fill material during construction of the roadways.

#### **Kentuck Project Site**

Vegetated and unvegetated intertidal mudflats exist on the estuary side of the dike separating the Kentuck Project site from Coos Bay.

### **4. VEGETATED SHALLOWS**

Vegetated shallows within the JCEP Project Area are characterized by eelgrass that occurs throughout the lower bay, typically straddling the boundary between intertidal mudflats and shallow subtidal areas. Vegetated shallows occur at the proposed access channel. The eelgrass in this area tends to be less dense and in smaller patches than is found in the broader flats in the upper and lower bay. Areas of vegetated shallows also occur on the western and eastern sides of the entrance to Jordan Cove. A fringing band of eelgrass is located within vegetated shallows along the north side of APCO Sites 1 and 2. Eelgrass also occurs within the area surrounding the proposed Eelgrass Mitigation site. Additional areas of vegetated shallows exist within Coos Bay at the mouth of Kentuck Slough in the vicinity of the Temporary Dredge Transfer Line.

Vegetated shallows within the JCEP Project Area where a JD or concurrence has not been issued are described in the wetland delineation reports that are included as Attachments C.1 to C.8. Quantities for impacts to vegetated shallows are provided in the Bulk Upload Template (Table 4-2).

### **5. DEEP SUBTIDAL**

A portion of the access channel and the entire footprint of the four areas to be dredged adjacent to the FNC for navigation reliability are located in deep subtidal habitat (i.e., below -15 MLLW). The substrate in these areas consists primarily of unvegetated sand and rock.

### **6. FLOODPLAINS**

Portions of the JCEP Project Area lie within the 100-year floodplain. The areas of the JCEP Project Area lying within the 100-year floodplain are summarized below and detailed in Figure 4.1-8.

#### **(4) DESCRIPTION OF RESOURCES IN PROJECT AREA**

##### **Ingram Yard and South Dunes Site**

According to Federal Emergency Management Agency (“FEMA”) Flood Insurance Rate Maps (“FIRMs”) 41011C0167E and 41011C0186E, effective March 17, 2014, the majority of the LNG Terminal site is located within FEMA Flood Hazard Zone X, which denotes areas of minimal flood hazard. Portions of the South Dunes site adjacent to Jordan Cove are located in Flood Hazard Zone AE, elevation 12 feet, which represents areas that are subject to the 1 percent annual chance flood (100-year flood, or base flood) where the 12-foot base flood elevation is the water-surface elevation of the 1 percent annual chance flood. The area at the southern tip of the South Dunes site and the easternmost portion of the South Dunes site abutting Haynes Inlet to the east of the railroad right-of-way are also located in Flood Hazard Zone AE, base elevation 12 feet.

##### **APCO Sites 1 and 2**

According to FEMA FIRM Panel 41011C0186E, effective March 17, 2014, the upland portions of the fill pads at APCO Site 1 and APCO Site 2, where most of the disturbance associated with the JCEP Project Area would occur, are located outside of the 100-year floodplain. The intertidal mudflat between APCO Site 1 and APCO Site 2, where a temporary construction bridge will be placed, is in Zone AE, base flood elevation 12 feet. The area along the northern and western shoreline of APCO 2 is in Zone AE, base flood elevation 12 feet. The area of APCO Site 1 at the foot of the railroad bridge is in Zone AE, base flood elevation 12 feet, and is an “area of undetermined flood hazard.”

##### **Kentuck Project Site**

Based on FEMA FIRM Panels 41011C0187E and 41011C0195E, effective March 17, 2014, nearly the entire Kentuck Project site is located within Flood Hazard Zone AE, base flood elevation 12 feet. Small upland areas along the southern and eastern boundaries of the Kentuck Project site are outside of the 100-year floodplain.

##### **Temporary Construction Sites**

According to FIRM Panel 41011C0180E, effective March 17, 2014, the entire Myrtlewood Offsite Park & Ride and most of the work area below the road bed at the Trans Pacific Parkway/US-101 Intersection Widening are located within Flood Hazard Zone AE, base flood elevation 12 feet. Roughly half of the Mill Casino Offsite Park & Ride is located in Flood Hazard Zone AE, base flood elevation 13 feet, per FIRM Panel 41011C0189E. The Boxcar Hill, Port Laydown, and Meteorological Station sites are outside of the 100-year floodplain.

#### **7. FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES**

As indicated in Box 7 below, three federally listed anadromous fish species are known to be present within the estuarine environment of Coos Bay, and they use various habitats within the bay for portions of their life cycle. Oregon Coast coho salmon, southern Distinct Population Segment (“DPS”) green sturgeon, and southern DPS Pacific eulachon were federally listed as threatened under the Endangered Species Act (“ESA”) in 2008, 2006, and 2010, respectively. Critical habitat was designated within Coos Bay for coho salmon in February 2008 and for southern DPS green sturgeon in October 2009. Section 7 consultation will be undertaken with the National Marine Fisheries Service (“NMFS”). A biological assessment (“BA”) will be prepared by FERC following completion of an Applicant Prepared BA in the fourth quarter of 2017.

#### **8. CULTURAL RESOURCES**

A cultural resources report has been submitted to FERC as part of JCEP’s application to FERC under Section 3 of the Natural Gas Act. The application was filed on 9/21/2017. Under the National Historic Preservation Act (“NHPA”), FERC is responsible for initiating consultation under Section 106 of the NHPA.

#### **(4) DESCRIPTION OF RESOURCES IN PROJECT AREA**

##### **B. Describe the existing navigation, fishing and recreational use of the waterway or wetland.**

###### **1. NAVIGATION**

Coos Bay is the second largest estuary in Oregon and is used by deep-draft commercial ships and barges, a commercial fishing fleet, and recreational boats. The FNC adjacent to the LNG Terminal site, which is maintained by USACE, is generally 300 feet wide and currently has a navigational depth of -37 Mean Lower Low Water ("MLLW"). Annual commercial ship traffic into and out of the Oregon International Port of Coos Bay (the "Port") has declined in recent years from a high of 310 deep-draft vessel calls at the Port in 1988 to 52 in 2016. The Port is also visited, by conservative estimates, by 50 tug/barge units per year, with 14 tug/barge units requesting pilotage during 2016 as per data from the Coos Bay Pilots Association.

###### **2. FISHING**

Commercial fisheries within the Coos Bay estuary include clams, bait fish, and ghost and mud shrimp (used for fishing bait), along with crabbing from September through December. There are no commercial fisheries for vertebrate fish species in any of the estuarine or freshwater habitats of Coos Bay. Commercial ocean fisheries include boats (trollers and trawlers) targeting albacore tuna, sablefish, salmon, groundfish, Dungeness crab, clams, and pink shrimp. Oregon Department of Fish and Wildlife (ODFW) data on pounds and values of commercially caught fish and shellfish landed in Charleston, Oregon in 2016 indicate that shellfish fisheries (predominantly crab, shrimp, and clams) are of substantial economic importance to the Coos Bay area, exceeding \$18.8 million in value in 2016.

###### **3. RECREATION**

The primary recreational activities taking place within the Coos Bay estuary include boating, fishing, waterfowl hunting, bird watching, clamming, and crabbing. Recreational boating takes place throughout Coos Bay, although most originates primarily near the towns of Charleston and Empire, where there are boat ramps. There is also a marina complex in Charleston. In addition to the Charleston boat ramp (approximately 13.25 miles from the LNG Terminal site) and Empire boat ramp (approximately 4.75 miles from the LNG Terminal site), recreational boaters operating within the JCEP Project Area vicinity use the BLM North Spit boat ramp (approximately 0.75 mile from the LNG Terminal site) to access the bay. A system of water trails for canoeists and kayakers exists throughout the sloughs and rivers draining into the bay. The water trails closest to the LNG Terminal site are approximately 1 mile northeast in North Slough and Haynes Inlet east of the Central Oregon and Pacific Railroad Bridge crossing Coos Bay. Jordan Cove and the section of Coos Bay south of the LNG Terminal site are not part of the water trail system.

The main recreational catch species of fish in and around Coos Bay include coho and Chinook salmon. Other recreational catch species include American shad, shiner perch, redbait surf perch, striped sea perch, white sea perch, pile perch, black rockfish, lingcod, Cabezon, red Irish lord, Pacific staghorn sculpin, surf smelt, Pacific herring, Pacific tomcod, kelp and rock greenling, blue and cooper rockfish, halibut, and white sturgeon. Much of the recreational angling for salmon in Coos Bay occurs in late summer and fall, usually beginning in late summer at jetty areas and moving up the bay as fish move upstream. Recreational fishing for sturgeon occurs between the railroad bridge and the McCullough Bridge, and also above the McCullough Bridge. Recreational crabbing and clamming bring year-round tourist income to the region. Crabbing occurs in the main channel areas, largely from the Bureau of Land Management ("BLM") boat ramp on the North Spit (west of the JCEP Project Area) to the mouth of the bay, and typically is done around slack tides. The main areas for recreational clamming and crabbing in the bay are located along the west side of the South Slough near Charleston, along the North Spit; at Fossil and Pigeon points; near Haynes Inlet, North Slough, and Glasgow; and along the east side of the upper bay. The west shore of the bay at Jordan Cove contains sand/mudflats, eelgrass beds, and a fringe of salt marsh that provide habitat for recreationally important ghost shrimp and mud shrimp. These shrimp are recreationally harvested at a number of locations throughout the bay, and are popular among fishermen for use as bait.

**(5) PROJECT SPECIFIC CRITERIA AND ALTERNATIVES ANALYSIS**

**Describe project-specific criteria necessary to achieve the project purpose. Describe alternative sites and project designs that were considered to avoid or minimize impacts to the waterway or wetland.**

JCEP submitted Resource Report 10 to FERC in September 2017. Resource Report 10 details the reasonable alternatives to siting the JCEP Project Area at its current location in Coos Bay. The alternatives analysis will be supplemented to reflect comments received from USACE on August 21, 2017, as it pertains to the USACE 404(b)(1) guidelines for evaluating alternatives, and will be provided to USACE as Attachment B of this JPA at a later date.

**(6) PROJECT DESCRIPTION**

**A. Briefly summarize the overall project including work in areas both in and outside of waters or wetlands..**

**B. Describe work within waters and wetlands**

**C. Construction Methods. Describe how the removal and/or fill activities will be accomplished to minimize impacts to waters and wetlands.**

**D. Describe source of fill material and disposal location if known**

See Attachment A.1: Project Description – Section 6 Narrative for a discussion of the overall project, including work in areas both in and outside of waters or wetlands. A more detailed discussion of work outside of waters and wetlands is provided in Resource Report 1 issued to FERC in September 2017 (Attachment A.2).

A summary of activities which may impair water quality and subsequent plans or practices to manage potential impacts are summarized in Attachment G.

**E. Construction timeline.**

**What is the estimated project start date?** 1<sup>st</sup> half of 2019

**What is the estimated project completion date?** 1<sup>st</sup> half of 2024

**Is any of the work underway or already complete?** ☐ Yes ☒ No  
**If yes, describe.**

N/A

**E. Fill Volumes and Dimensions** (if more than 4 impact sites, include a summary table as an attachment)

**See Table 4-2, Bulk Upload Template**

Wetland / Waterbody Name *	Fill Dimensions					Duration of Impact**	Material***
	Length (ft.)	Width (ft.)	Depth (ft.)	Area (sq.ft. or ac.)	Volume (c.y.)		

**F. Total Fill Volumes and Dimensions**

<b>See Table 4-2, Bulk Upload Template</b>			
<b>Fill Impacts to Waters</b>	<b>Length (ft.)</b>	<b>Area (sq. ft or ac.)</b>	<b>Volume (c.y.)</b>

<b>(6) PROJECT DESCRIPTION</b>							
Total Fill to Wetlands							
Total Fill Below Ordinary High Water							
Total Fill Below <a href="#">Highest Measured Tide</a>							
Total Fill Below <a href="#">High Tide Line</a>							
Total Fill Below <a href="#">Mean High Water Tidal Elevation</a>							
G. Removal Volumes and Dimensions (if more than 4 impact sites, include a summary table as an attachment)							
See Table 4-2, Bulk Upload Template							
Wetland / Waterbody Name*	Removal Dimensions					Duration of Impact**	Material***
	Length (ft.)	Width (ft.)	Depth (ft.)	Area (sq. ft. or ac.)	Volume (c.y.)		
H. Total Removal Volumes and Dimensions							
See Table 4-2, Bulk Upload Template; Table 6-2 Proposed Dredged Material Management for Construction Activities							
Removal Impacts to Waters		Length (ft.)		Area (sq. ft or ac.)		Volume (c.y.)	
Total Removal to Wetlands							
Total Removal Below Ordinary High Water							
Total Removal Below <a href="#">Highest Measured Tide</a>							
Total Removal Below <a href="#">High Tide Line</a>							
Total Removal Below <a href="#">Mean High Water Tidal Elevation</a>							
<p>* If there is no official name for the wetland or waterway, create a unique name (such as "Wetland 1" or "Tributary A").</p> <p>** Indicate the days, months or years the fill or removal will remain. Enter "permanent" if applicable. For DSL, permanent removal or fill is defined as being in place for 24 months or longer.</p> <p>*** Example: soil, gravel, wood, concrete, pilings, rock etc.</p>							

<b>(7) ADDITIONAL INFORMATION</b>			
Are there any <a href="#">state</a> or <a href="#">federally</a> listed species on the project site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Is the project site within designated or proposed critical habitat?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
Is the project site within a national <a href="#">Wild and Scenic River</a> ?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
Is the project site within the <a href="#">100-year floodplain</a> ?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
* If yes to any of the above, explain in Block 4 and describe measures to minimize adverse effects to these resources in Block 5.			
Is the project site within the <a href="#">Territorial Sea Plan (TSP) Area</a> ?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
* If yes, attach TSP review as a separate document for DSL.			
Is the project site within a designated <a href="#">Marine Reserve</a> ?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown
* If yes, certain additional DSL restrictions will apply.			
Will the overall project involve construction dewatering or ground disturbance of one acre or more?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
* If yes, you may need a 1200-C permit from the Oregon Department of Environmental Quality (DEQ).			
Is the fill or dredged material a carrier of contaminants from on-site or off- site spills?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unknown

**(7) ADDITIONAL INFORMATION**

Has the fill or dredged material been physically and/or chemically tested? ☒ Yes ☐ No ☐ Unknown

\*If yes, explain in Block 4 and provide references to any physical/chemical testing report(s).

Has a cultural resource (archaeological) survey been performed on the project area? ☒ Yes ☐ No ☐ Unknown

\* If yes, provide a copy of the survey with this application. Do not describe any resources in this document.

Identify any other federal agency that is funding, authorizing or implementing the project.

Agency Name	Contact Name	Phone Number	Most Recent Date of Contact
Federal Energy Regulatory Commission	John Peconom	(202) 502-6352	8/9/2017
National Marine Fisheries Service	Chuck Wheeler	(541) 957-3379	10/2/2017
US Coast Guard	LCDR Laura Springer	(503) 240- 2594	9/19/2017

List other certificates or approvals/denials required or received from other federal, state or local agencies for work described in this application. For example, certain activities that require a Corps permit also require [401 Water Quality Certification](#) from Oregon DEQ.

Approving Agency	Certificate/ approval / denial description	Date Applied
DEQ	401 WQ Certification	TBD
US Army Corps of Engineers – Civil Works	408 Approval	TBD
National Marine Fisheries Service	ESA Authorization	TBD

Other DSL and/or Corps Actions Associated with this Site (Check all that apply.)

- ☐ Work proposed on or over lands owned by or leased from the Corps
- ☒ State owned waterway DSL Waterway Lease #
- ☒ Other Corps or DSL Permits Corps # NWP-2017-41/2 DSL # 60528
- ☐ Violation for Unauthorized Activity Corps # DSL #
- ☒ Wetland and Waters Delineation Corps # NWP-2012-441; NWP-2016-265 DSL #
- ☒ A wetland / waters delineation has been completed (if so, provide a copy with the application)
- ☒ The Corps has approved the wetland / waters delineation within the last 5 years
- ☒ DSL has approved the wetland / waters delineation within the last 5 years

**(8) IMPACTS, RESTORATION/REHABILITATION, COMPENSATORY MITIGATION**

**A. Describe unavoidable environmental impacts that are likely to result from the proposed project. Include permanent, temporary, direct, and indirect impacts.**

See Table 4-2 for detail on the extent of unavoidable permanent impacts to wetlands and waters resulting from construction of the LNG Terminal.

Impacts to other environmental resources are detailed in Resource Report 2 and 3, issued to FERC on 9/21/17 (Attachment A.3 and A.4 respectively).

**(8) IMPACTS, RESTORATION/REHABILITATION, COMPENSATORY MITIGATION**

**B. For temporary removal or fill or disturbance of vegetation in waterways, wetlands or riparian (i.e., streamside) areas, discuss how the site will be restored after construction.**

During construction, a number of methods will be utilized to minimize the impacts of removal and fill on waterways and wetlands. Following completion of construction, areas of temporary disturbance to wetland and upland areas will be restored to pre-project conditions to the extent practicable. Methods used to minimize the temporary wetland and tidal waters impacts to the greatest extent practicable and avoid permanent wetland impacts are detailed in the Erosion and Sediment Control Plan (ESCP) (Attachment G) and Site Restoration Plan (Attachment I), and include the following.

1. Areas disturbed by construction of the Project facilities will be stabilized with temporary erosion controls until construction is complete, unless covered by equipment, gravel or other covering. Following construction, the site will be final graded, and BMPs will be applied to prevent erosion and associated impacts to wetlands and waterways.
2. While construction of permanent facilities at the LNG Terminal site is not anticipated beyond the toe of the fill slope, perimeter site preparation activities, installation and maintenance of erosion and sediment control measures and ground improvements adjacent to the toe of slope may cause settlement or temporary disturbances beyond the toe of slope.
3. Following excavation activities, all exposed areas, including exposed slopes, will be stabilized with an approved seed mixture specified as being capable of surviving in highly permeable, xeric regimes, binding loose sand, and withstanding burial and deflation from aeolian processes.
4. All work within the Coos Bay estuary, including construction of the MOF, dredging of the access channel and removal of the berm, and dredging associated with the navigation reliability improvements and eelgrass mitigation site, will be performed during the ODFW in water work window (October 1 to February 15).
5. Upon completion of dredging operations, any temporary in-water and upland facilities will be removed. Slurry and decant water pipelines will be removed, and any areas disturbed by these pipelines will be restored to pre-construction conditions.
6. The APCO 1 site and other permanent or long-term disposal sites will be stabilized using an approved seed mix to minimize windblown sand from being deposited on roads, upland habitats, and waterways.
7. At temporary construction sites, grades will be restored to pre-project conditions and the sites will be revegetated with an approved seed mixture.
8. Following compaction during ground improvements, the top 3 feet of affected wetland areas will be returned to original elevations and can be loosened or scarified to allow planting of vegetation. Soils will be amended as needed, and hydrophytic vegetation will be replanted.

Proposed conservation and mitigation actions that would be implemented as part of the Project to compensate for the loss of eelgrass and unvegetated mudflat habitat are expected to more than offset the losses incurred during Project construction. Mitigation details are provided in the Project Compensatory Wetland Mitigation Plan (Attachment J).

**Compensatory Mitigation**

**C. Proposed mitigation approach. Check all that apply:**

☒ Permittee-  
responsible Onsite  
Mitigation

☒ Permittee-  
responsible Offsite  
mitigation

☐ Mitigation Bank or  
in-lieu fee program

☐ Payment to Provide  
(not approved for use  
with Corps permits)

**(8) IMPACTS, RESTORATION/REHABILITATION, COMPENSATORY MITIGATION**

**D. Provide a brief description of mitigation approach and the rationale for choosing that approach. If you believe mitigation should not be required, explain why.**

Mitigation for unavoidable impacts to Section 404-regulated resources is addressed in the Compensatory Wetland Mitigation Plan (CWMP), which describes the proposed Kentuck Project site and Eelgrass Mitigation Site (see Attachment J).

**Mitigation Bank / In-Lieu Fee Information:**

Name of mitigation bank or in-lieu fee project: N/A

Type of credits to be purchased: N/A

If you are proposing permittee-responsible mitigation, have you prepared a compensatory mitigation plan?

☒ Yes. Submit the plan with this application and complete the remainder of this section.

☐ No. A mitigation plan will need to be submitted (for DSL, this plan is required for a complete application).

**Mitigation Location Information (Fill out only if permittee-responsible mitigation is proposed)**

Mitigation Site Name/Legal Description Kentuck Mitigation Site; Eelgrass Mitigation Site		Mitigation Site Address  N/A	Tax Lot #  Kentuck - 25s12w06c lot 100, 25s13w12a lot 100, and 25s13w1d lot 400; Eelgrass - N/A	
County  Coos		City  North Bend		Latitude & Longitude (in DD.DDDD format) varies
Township 25	Range Kentuck - 12 West, 13 west; Eelgrass: 13 West	Section Kentuck - 12W section 6 and 7; 13W section 1 and 2; Eelgrass: 13W Section 8		Quarter/Quarter varies

**(9) ADJACENT PROPERTY OWNERS FOR PROJECT AND MITIGATION SITE**

<b>Pre-printed mailing labels</b> <input type="checkbox"/> of adjacent property owners attached	<b>Project Site Adjacent Property Owners</b> See Attachment K	<b>Mitigation Site Adjacent Property Owners</b>
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**Contact Name**  
**Address 1**  
**Address 2**  
**City, ST ZIP Code**

**Contact Name**  
**Address 1**  
**Address 2**  
**City, ST ZIP Code**

**Contact Name**  
**Address 1**  
**Address 2**  
**City, ST ZIP Code**

**Contact Name**  
**Address 1**  
**Address 2**  
**City, ST ZIP Code**

**Contact Name**  
**Address 1**  
**Address 2**  
**City, ST ZIP Code**

**Contact Name**  
**Address 1**  
**Address 2**  
**City, ST ZIP Code**

**Contact Name**  
**Address 1**  
**Address 2**  
**City, ST ZIP Code**

**Contact Name**  
**Address 1**  
**Address 2**  
**City, ST ZIP Code**

**(10) CITY/COUNTY PLANNING DEPARTMENT LAND USE AFFIDAVIT  
(TO BE COMPLETED BY LOCAL PLANNING OFFICIAL)**

I have reviewed the project described in this application and have determined that:

- ☐ This project is not regulated by the comprehensive plan and land use regulations.
- ☐ This project is consistent with the comprehensive plan and land use regulations.
- ☐ This project will be consistent with the comprehensive plan and land use regulations when the following local approval(s) are obtained:
- ☐ Conditional Use Approval
  - ☐ Development Permit
  - ☐ Other Permit (see comment section)
- ☐ This project is not consistent with the comprehensive plan. Consistency requires:
- ☐ Plan Amendment
  - ☐ Zone Change
  - ☐ Other Approval or Review (see comment section)

An application ☐ has ☐ has not been filed for local approvals checked above.

Local planning official name (print)	Title	City / County (circle one)
--------------------------------------	-------	----------------------------

Signature	Date
-----------	------


Comments:

**(11) COASTAL ZONE CERTIFICATION**

If the proposed activity described in your permit application is within the [Oregon coastal zone](#), the following certification is required before your application can be processed. A public notice will be issued with the certification statement, which will be forwarded to the Oregon Department of Land Conservation and Development (DLCD) for its concurrence or objection. For additional information on the Oregon Coastal Zone Management Program, contact DLCD at 635 Capitol Street NE, Suite 150, Salem, Oregon 97301 or call 503-373-0050.


**CERTIFICATION STATEMENT**

I certify that, to the best of my knowledge and belief, the proposed activity described in this application complies with the approved Oregon Coastal Zone Management Program and will be completed in a manner consistent with the program.

Print /Type Name	Title
T. DIOCEE	UP LNG PROJECTS
Signature	Date
	10/23/17

**(12) SIGNATURES**

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and, to the best of my knowledge and belief, this information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities. By signing this application I consent to allow Corps or DSL staff to enter into the above-described property to inspect the project location and to determine compliance with an authorization, if granted. I hereby authorize the person identified in the authorized agent block below to act in my behalf as my agent in the processing of this application and to furnish supplemental information in support of this permit application. I understand that the granting of other permits by local, county, state or federal agencies does not release me from the requirement of obtaining the permits requested before commencing the project. I understand that payment of the required state processing fee does not guarantee permit issuance. To be considered complete, the fee must accompany the application to DSL. The fee is not required for submittal of an application to the Corps.

<b>Fee Amount Enclosed</b>	\$
<b>Applicant Signature</b>	
Print Name	Title
J. Diocee	VP LNG PROJECTS
Signature	Date
	10/23/17
<b>Authorized Agent Signature</b>	
Print Name	Title
Signature	Date
<b>Landowner Signature(s)</b>	
<b>Landowner of the Project Site (if different from applicant)</b>	
Print Name	Title
As required by FERC, PCGP must obtain an easement across all properties affected by the Pipeline (through negotiations or condemnation) prior to construction.	
Signature	Date
<b>Landowner of the Mitigation Site (if different from applicant)</b>	
Print Name	Title
Signature	Date
<b>Department of State Lands, Property Manager (to be completed by DSL)</b>	
If the project is located on <u>state-owned submerged and submersible lands</u> , DSL staff will obtain a signature from the Land Management Division of DSL. A signature by DSL for activities proposed on state-owned submerged/submersible lands only grants the applicant consent to apply for a removal-fill permit. A signature for activities on state-owned submerged and submersible lands grants no other authority, express or implied and a separate proprietary authorization may be required.	
Print Name	Title
Signature	Date

**(13) ATTACHMENTS**

- ☒ **Drawings (items in bold are required)**
- ☒ **Location map with roads identified**
  - ☐ U.S.G.S topographic map
  - ☒ **Tax lot map**
  - ☒ **Site plan(s)**
  - ☒ **Cross section drawing(s)**
  - ☒ **Recent aerial photo**
  - ☐ Project photos
  - ☐ Erosion and Pollution Control Plan(s), if applicable
  - ☒ **DSL/Corps Wetland Concurrence letter and map, if approved and applicable**
- ☒ Pre-printed labels for adjacent property owners (Required if more than 5)
- ☒ Restoration plan or rehabilitation plan for temporary impacts
- ☒ Mitigation plan
- ☒ Wetland functional assessment and/or stream functional assessment
- ☒ Alternatives analysis
- ☐ Biological assessment (if requested by Corps project manager during pre-application coordination.)
- ☐ Stormwater management plan (may be required by the Corps or DEQ)
- ☒ Other:
- |                                     |                                  |
|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | Dredged Material Management Plan |
| <input checked="" type="checkbox"/> | PSET Letters; Design Details     |

**Send Completed form to:**

**U.S. Army Corps of Engineers**  
**ATTN: CENWP-OD-GP**  
**PO Box 2946**  
**Portland, OR 97208-2946**  
**Phone: 503-808-4373**

**Counties:**  
**Baker, Clackamas,**  
**Clatsop, Columbia,**  
**Gilliam, Grant, Hood**  
**River, Jefferson, Lincoln,**  
**Malheur, Marion, Morrow,**  
**Multnomah, Polk,**  
**Sherman, Tillamook,**  
**Umatilla, Union,**  
**Wallowa, Wasco,**  
**Washington, Wheeler,**  
**Yamhill**

**OR**

**U.S. Army Corps of Engineers**  
**ATTN: CENWP-OD-GE**  
**211 E. 7<sup>th</sup> AVE, Suite 105**  
**Eugene, OR 97401-2722**  
**Phone: 541-465-6868**

**Counties:**  
**Benton, Coos, Crook,**  
**Curry, Deschutes,**  
**Douglas Jackson,**  
**Josephine, Harney,**  
**Klamath, Lake, Lane,**  
**Linn**

**Send Completed form to:****DSL - West of the Cascades:**

**Department of State Lands**  
**775 Summer Street NE, Suite 100**  
**Salem, OR 97301-1279**  
**Phone: 503-986-5200**

**OR**

**DSL - East of the Cascades:**

**Department of State Lands**  
**1645 NE Forbes Road, Suite 112**  
**Bend, Oregon 97701**  
**Phone: 541-388-6112**

**Send all Fees to:**

**Department of State Lands**  
**775 Summer Street NE, Suite 100**  
**Salem, OR 97301-1279**  
**Pay by Credit Card by Calling 503-986-5253**