



**City of Hoquiam**  
609 8th Street  
Hoquiam, WA 98550



**Washington State Department of Ecology**  
300 Desmond Drive SE  
Lacey, WA 98503

September 30, 2016

The City of Hoquiam and the Washington State Department of Ecology—the co-lead agencies—are issuing the Final Environmental Impact Statement (Final EIS) for the proposed expansion of the existing bulk liquid storage terminal owned by Westway Terminal Company LLC (the applicant). The Westway Expansion Project (proposed action) would expand the existing bulk liquid storage terminal to receive crude oil by train, and store and load crude oil onto tank vessels at Terminal 1 of the Port of Grays Harbor in Hoquiam, Washington, for shipment.

The EIS was prepared in accordance with the Washington State Environmental Policy Act (SEPA) and the City of Hoquiam Municipal Code. The purpose of the EIS is to evaluate the potential environmental impacts of constructing and operating the proposed action.

The following resource areas were evaluated in the EIS.

- Earth (including earthquake/tsunami risk)
- Air
- Water
- Plants
- Animals
- Energy and Natural Resources
- Noise and Vibration
- Land and Shoreline Use
- Aesthetics, Light, and Glare
- Recreation
- Historic and Cultural Preservation
- Tribal Resources
- Public Services and Utilities
- Hazardous Materials
- Rail Traffic
- Vehicle Traffic and Safety
- Vessel Traffic
- Environmental Health and Safety (spills, fires and explosions)
- Economics, Social Policy, and Cost-Benefit Analysis per Hoquiam Municipal Code

During the Draft EIS scoping phase, many areas of concern associated with the proposed action were identified. These issues were considered and subsequently addressed in the Draft EIS. The Draft EIS evaluated the impacts from construction, onsite operations, and offsite rail and vessel transport related to the proposed action, as well as the contribution of the proposed action to cumulative environmental impacts. The Draft EIS also identified proposed mitigation measures for adverse environmental impacts of the proposed action. In addition to the proposed action, the no-action alternative was also evaluated.

The Draft EIS was released for public comment on August 31, 2015. All comments received during the 90-day comment period—August 31 to November 30, 2015—were reviewed, compiled, and considered in the development of the Final EIS. All comments and responses to those comments are presented in the Final EIS.

The Final EIS builds on the Draft EIS and includes additional information, updated and additional analyses, and recent changes to regulations. No new or more significant impacts were identified as a

result of these updates. The Final EIS identifies proposed mitigation measures to address adverse environmental impacts of the proposed action. In some cases, implementation of mitigation measures would reduce but not completely eliminate the potential for significant adverse impacts. These remaining impacts are highlighted in the Final EIS as *potential unavoidable and significant adverse impacts* and are found in the following resource areas: Environmental Health and Safety (spill/fire/explosion), Noise, Tribal Resources, and Vehicle Traffic and Safety.

The Final EIS will be used as an information resource by local and state agencies who will be making permit decisions for the proposed action. The City of Hoquiam will be the first agency to take action on the proposal through consideration of the application for a required shoreline substantial development permit. Construction of the proposed action could begin once all required permits and plans are issued.

Questions about this Final EIS may be directed to:

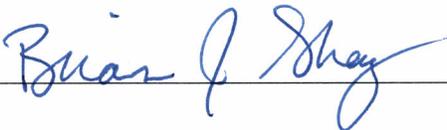
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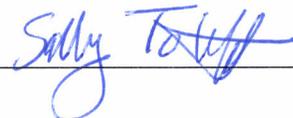
Thank you for your interest in the Westway Expansion Project environmental review process.

Sincerely,

Brian Shay, City Administrator, City of Hoquiam

Date: 9/30/2016 Signature: 

Sally Toteff, Southwest and Olympic Regional Director, Washington State Department of Ecology

Date: 9/30/2016 Signature: 

## **Project Title**

Westway Expansion Project

## **Description of Proposed Action and Alternatives**

Westway Terminal Company LLC (the applicant) is proposing to develop 7 acres of its 16-acre site<sup>1</sup> as an expansion to its bulk liquids storage facility to allow for receiving, storing, and loading crude oil for transport. Crude oil would be transported to the project site by rail and from the project site by tank vessel. Proposed facilities would include up to five storage tanks, expanded rail spurs and unloading facilities, vessel loading equipment, and pipelines connecting the storage tanks with the rail unloading and vessel loading areas.

Under the no-action alternative, none of the proposed facilities would be constructed and the applicant would continue to operate its existing facility. For the purpose of evaluating impacts, the no-action alternative includes planned infrastructure improvements that have already been funded or are expected to be permitted prior to 2017 and assumes continued future growth and development in the region over the subsequent 20 years.

## **Location**

The proposed action would occur on the existing Westway facility (project site), located between Terminals 1 and 2 of the Port of Grays Harbor (Port) in Hoquiam, Washington, just north of where the Chehalis River empties into Grays Harbor.

## **Proponent**

Westway Terminal Company LLC

## **Co-Lead Agencies**

City of Hoquiam and Washington State Department of Ecology

## **Responsible Officials**

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City of Hoquiam  
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Hoquiam, WA 98550  
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<sup>1</sup> The additional 9 acres of the project site are already developed.

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### **Contact Persons**

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### **Required Permits, Approvals, and Plans**

The following permits and/or approvals would be required for the proposed action.

#### **City**

- City of Hoquiam Critical Areas Review for fish and wildlife habitat and geologically hazardous areas
- City of Hoquiam Shoreline Substantial Development Permit
- City of Hoquiam Conditional Land Use Permit
- City of Hoquiam Building Permit
- City of Hoquiam Grade and Fill Permit
- City of Hoquiam Fire Department Approval
- City of Hoquiam Demolition Permit
- City of Aberdeen Utility Services Agreement
- City of Aberdeen Critical Areas Review for fish and wildlife habitat and geologically hazardous areas
- City of Aberdeen Building Permit
- City of Aberdeen Grade and Fill Permit

- City of Aberdeen Fire Department Approval

**State**

- Washington State Department of Ecology National Pollutant Discharge Elimination System Construction Stormwater General Permit
- Washington State Department of Ecology Resource Conservation and Recovery Act Notice of Registration Update
- Washington State Olympic Region Clean Air Agency Approval Order
- Washington State Department of Ecology National Pollutant Discharge Elimination System Industrial Stormwater Permit
- Washington State Department of Ecology Spill Prevention Plan
- Washington State Department of Ecology Spill Contingency Plan
- Washington State Department of Ecology Facility Operations Manual
- Washington State Department of Ecology Oil Handling Facility Training and Certification Report
- Washington State Department of Ecology Oil Handling Facility Safe and Effective Threshold Report

**Federal**

- U.S. Environmental Protection Agency Facility Response Plan
- U.S. Environmental Protection Agency Spill Prevention Control and Countermeasure Plan
- U.S. Coast Guard Facility Response Plan
- U.S. Coast Guard Letter of Intent
- U.S. Coast Guard Oil Spill Response Plan
- U.S. Coast Guard Facility Security Plan and Facility Security Assessment
- U.S. Coast Guard Operations Manual Update

## Environmental Impact Statement Authors and Principal Contributors

This document has been prepared under the direction of the co-lead agencies. Key authors and topics are listed below.

<b>Author</b>	<b>Topic(s)</b>
ICF International 710 Second Avenue, Suite 550 Seattle, WA 98104 (206) 801-2800	Environmental impact statement and community affairs lead. Existing conditions and impact analyses for earth, air quality, water, plants, animals, energy and natural resources, noise and vibration, land use, aesthetics and light and glare, recreation, public services and utilities, historical and cultural resources, tribal resources, vehicle traffic and safety, rail traffic, vessel traffic, oil spill modeling, environmental health and safety, economics, social policy, and cost-benefit analysis. Mitigation refinement in coordination with co-lead agencies.
AnchorQEA 412 SW 6th Ave, Suite 550 Portland, OR 97205 (503) 670-1108	Environmental health and safety
Coast and Harbor Engineering 110 Main Street, Suite 103 Edmonds, WA 98020 (425) 778-6243	Tsunami risk assessment
DKS Associates 720 SW Washington Street, Suite 500 Portland, OR 97205 (503) 243-3500	Vehicle traffic modeling
WolfRAMPANT, LLC 8307 66th Avenue NW Gig Harbor, WA 98332 (206) 782-4308	Vessel traffic
VTD Rail Consulting, Tom White 6707 230th Street SW Mountlake Terrace, WA 98043 (425) 345-6337	Rail modeling, rail traffic
ECONorthwest 1218 3rd Avenue, Suite 1709 Seattle, WA 98101 (206) 388-0083	Economic modeling

## **Date of Draft Environmental Impact Statement Issuance**

August 31, 2015

## **Date Draft Environmental Impact Statement Comments Were Due**

November 30, 2015

## **Date and Place of Draft Environmental Impact Statement Public Meetings**

October 1, 2015, 1:00 to 9:00 p.m., at the Satsop Business Park, Flextech Building, 150 Technology Way, Elma, WA 98541

October 8, 2015, 1:00 to 9:00 p.m., at the D&R Theatre, 205 South I Street, Aberdeen, WA 98520

## **Date of Final Environmental Impact Statement Issuance**

September 30, 2016

## **Availability of the Final Environmental Impact Statement**

The document is posted on the Washington State Department of Ecology web site: <http://www.ecy.wa.gov/geographic/graysharbor/terminals.html>. To obtain a printed copy or CD of the Final EIS (for the cost of production), follow the instructions provided at <http://www.ecy.wa.gov/services/disclosure/disclose.html>.

The document is also available as a reference at the following locations:

- Washington State Department of Ecology  
300 Desmond Drive SE, Lacey, WA 98503
- City of Hoquiam  
609 8th Street, Hoquiam, WA 98550
- Hoquiam Timberland Library  
420 7th Street  
Hoquiam, WA 98550-3616

## **Next Actions**

The City of Hoquiam will be the first agency required to take action on the proposal through consideration of the application for a shoreline substantial development permit. The City is required to publish two public notices, followed by a 30-day comment period after which it has 120 days to make a decision on the application (i.e., whether to issue or deny the permit). Construction of the proposed action could begin as soon as all required permits and approvals are issued.

## **Previous Environmental Documents**

Prior environmental review was conducted for the Westway Terminal Expansion Project, including the following documents.

- Environmental Checklist with attachments, February 20, 2013
- Shoreline Substantial Development Permit Application, December 3, 2012

- Conditional Land Use Permit Application, December 3, 2012

Prior environmental review also was conducted for the original facility, Raw Material Tank Farm Project, including the following document.

- Environmental Checklist with attachments, November 27, 2008

When appropriate, prior environmental documents were considered in the preparation of this EIS.

### **Location of Background Information**

All materials incorporated by reference and supporting technical memoranda are available for review at the following location.

Washington State Department of Ecology  
300 Desmond Drive SE  
Lacey, WA 98503

# **WESTWAY EXPANSION PROJECT**

## **FINAL ENVIRONMENTAL IMPACT STATEMENT**

City of Hoquiam  
609 8th Street  
Hoquiam, WA 98550

Washington State Department of Ecology  
300 Desmond Drive SE  
Lacey, WA 98503

**September 2016**

City of Hoquiam and Washington State Department of Ecology. 2016.  
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September. Hoquiam and Lacey, WA.

# VOLUME 1

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## Acronyms and Abbreviations

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°C	degrees Celsius
°F	degrees Fahrenheit
µg/m <sup>3</sup>	micrograms per cubic meter
AGP	Ag Processing, Inc.
ALLSITES	Facility/Site Identification System Listing
AMC	Aberdeen Municipal Code
API	American Petroleum Institute
applicant	Westway Terminal Company, LLC
AR-AFFF	alcohol-resistant aqueous film-forming foam
ASIL	acceptable source impact level
ATB	articulated tug-barge
BMP	best management practice
BNSF	BNSF Railway Company
Btu	British thermal unit
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Federal Comprehensive Environmental Response, Compensation, and Liability Information System
CFR	Code of Federal Regulations
cfs	cubic feet per second
Chehalis	Confederated Tribes of the Chehalis Reservation
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
CSCSL NFA	Confirmed and Suspected Contaminated Sites – No Further Action
CSZ	Cascadia Subduction Zone
CTC	Centralized Traffic Control
CWCOG	Cowlitz-Wahkiakum Council of Governments
DAHP	Washington State Department of Archaeology & Historic Preservation
dBA	A-weighted decibels
DNL	day-night sound level
DPM	diesel particulate matter
DPS	distinct population segment
Ecology	Washington State Department of Ecology
EIS	environmental impact statement
EMS	emergency medical services

EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
ESHB	Engrossed Substitute House Bill
FAST Act	Fixing America’s Surface Transportation Act
FEMA	Federal Emergency Management Agency
FINDS	Facility Index System/Facility Registry System
FR	Federal Register
FRA	Federal Railroad Administration
FRA/FTA Manual	Transit Noise and Vibration Impact Assessment
FTA	Federal Transit Administration
g	gravity
GHCOG	Grays Harbor Council of Governments
GHG	greenhouse gas
GIS	geographic information system
GMA	Growth Management Act
GRP	geographic response plan
HMC	Hoquiam Municipal Code
Hz	hertz
IMPLAN	Impact Analysis for Planning Model
IPCC	Intergovernmental Panel on Climate Change
kg CO <sub>2</sub> per mmBtu	kilograms of carbon dioxide per million British thermal unit
kHz	kilohertz
Ldn	day-night sound level
Leq	equivalent sound level
Leq [h]	hourly equivalent sound level
LOS	level of service
LUST	leaking underground storage tank
MANIFEST	Hazardous Waste Manifest Information
MHHW	mean higher high water
MLLW	mean lower low water
MMTCO <sub>2</sub> e	million metric tons of carbon dioxide equivalent
MP	milepost
mph	miles per hour
M <sub>w</sub>	moment magnitude scale
N <sub>2</sub> O	nitrous oxide
NAAQS	national ambient air quality standards
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
NIMS	National Incident Management System

nm	nautical miles
NO <sub>2</sub>	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NO <sub>x</sub>	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NTSB	National Transportation Safety Board
O <sub>3</sub>	ozone
OPA 90	Oil Pollution Act of 1990
PGA	peak ground acceleration
PHMSA	Pipeline and Hazardous Materials Safety Administration
PM10	particulate matter with a diameter of 10 micrometers or less
PM2.5	particulate matter of 2.5 micrometers or less
Port	Port of Grays Harbor
ppb	parts per billion
proposed action	Westway Expansion Project
PS&P	Puget Sound & Pacific Railroad
PUD	Public Utility District
QIN	Quinault Indian Nation
Quinault	Quinault Indian Nation
RCRA	Resource Conservation and Recovery Act Information
RCW	Revised Code of Washington
REG project	REG (formerly Imperium Terminal Services) Expansion Project
SEL	sound exposure level
SEPA	State Environmental Policy Act
SMA	Shoreline Management Act
SO <sub>2</sub>	sulfur dioxide
SOSC	State-On-Scene Coordinator
SQER	small quantity emission rate
SQG	small quantity generator
SR	State Route
SR 105	State Route 105
SR 109	State Route 109
SR 507	State Route 507
SR 520	State Route 520
TMDL	total maximum daily load
TPC	train performance calculator
TWC	Traffic Warrant Control
U.S.C	United States Code

UP	Union Pacific
US 101	US Highway 101
US 12	US Highway 12
USACE	U. S. Army Corp of Engineers
USCG	U.S. Coast Guard
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VCP	Voluntary Cleanup Program
VdB	velocity decibels
VHF	very high frequency
VOC	volatile organic compound
WAC	Washington Administrative Code
WDFW	Washington Department of Fish and Wildlife
WISAARD	Washington Information System for Architectural and Archaeological Records Database
WNHP	Washington Natural Heritage Program
WRIA	Watershed Resources Inventory Area
WSDOT	Washington State Department of Transportation
WUTC	Washington Utilities and Transportation Commission

## Appendices

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