LOWER YAKIMA RIVER
Geographic Response Plan
(YAK-GRP)
LOWER YAKIMA RIVER

Geographic Response Plan

(YAK-GRP)

June 2017
**Spill Response Contact Sheet**

### Required Notifications for Oil Spills & Hazardous Substance Releases

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<td>- Washington Ops Office</td>
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<td>- RCRA/CERCLA Hotline</td>
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<td>- Public Affairs</td>
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<td>- Command Center</td>
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<td>NRC Environmental Services</td>
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<td>NWFF Environmental</td>
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<td>Archaeology &amp; Historic Preservation</td>
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<tr>
<td>Dept. of Ecology HQ (Lacey)</td>
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<tr>
<td>- Central Region Spill Response</td>
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</tr>
<tr>
<td>Dept. of Fish and Wildlife</td>
<td>(360) 696-6211</td>
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<tr>
<td>- Oil Spill Team</td>
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</tr>
<tr>
<td>- Emergency HPA Assistance</td>
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<tr>
<td>Dept. of Health (Drinking Water)</td>
<td>(800) 521-0323</td>
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<tr>
<td>- After normal business hours</td>
<td>(877) 481-4901</td>
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<tr>
<td>Dept. of Natural Resources</td>
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<td>Dept. of Transportation</td>
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<td>State Parks &amp; Rec Commission</td>
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<td>(509) 854-1725</td>
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<tr>
<td>City of Grandview</td>
<td>(509) 882-9200</td>
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<tr>
<td>City of Mabton</td>
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<td>City of Moslee</td>
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<td>City of Prosser</td>
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<tr>
<td>City of Richland</td>
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<td>City of Selah</td>
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<td>City of Sunnyside</td>
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<td>City of Union Gap</td>
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<td>City of Wapato</td>
<td>(509) 877-2343</td>
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<tr>
<td>City of West Richland</td>
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<td>City of Yakima</td>
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<tr>
<td>City of Zillah</td>
<td>(509) 829-5151</td>
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<tr>
<td>Town of Naches</td>
<td>(509) 653-2647</td>
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<tr>
<td>Benton County Emergency Management</td>
<td>(509) 628-0333</td>
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<tr>
<td>Benton County Sheriff (Prosser)</td>
<td>(509) 786-5615</td>
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<tr>
<td>Yakima County Sheriff</td>
<td>(509) 574-2500</td>
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<tr>
<td>Yakima Valley Emergency Management</td>
<td>(509) 574-1900</td>
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* Contact Numbers staffed 24-hour/day
Before you print this document

Chapter 4 with appendices (pages 29-488) and Appendix 6A (page 503) of this document are provided in “landscape” page orientation; all other chapters and appendices are oriented in “portrait.” The appendices in Chapter 4 (pages 119-488) have been designed for duplex printing (front and back side of paper), “open to top” configuration.
Purpose and Use of this Plan

This Geographic Response Plan (GRP) constitutes the federal and state on-scene coordinators’ orders during the initial phase of an oil spill response in the planning area. It’s meant to aid the response community during the initial phase of an oil spill, from the time a spill occurs until a Unified Command is established. The plan prioritizes tactical response strategies based on locations where spills might occur, and the proximity and relative priority of those locations to sensitive natural, cultural, and economic resources. By using this document it’s hoped that immediate and proper action can be taken to reduce oil’s impact on sensitive resources.
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CHAPTER 1

Introduction

This plan focuses on sensitive resource protection after an oil spill on or near the water occurs. It serves as the federal and state on-scene-coordinators’ orders during the initial phase of an oil spill response in the planning area. It has been approved by Regional Response Team 10 and the Chairs and Co-Chairs of the Northwest Area Committee. Geographic Response Plans (GRPs) are living documents that can be revised at any time based on new information from comments and lessons learned from drills and spills. These changes are typically reflected as interim updates on the website for each GRP until they are fully incorporated into the plan during a future update. We value your input and hope that you’ll let us know how the plan might be improved. Please submit comments online at http://www.rrt10nwac.com/Comment. Comments may also be emailed to GRPs@ecy.wa.gov or submitted by mail using the form and information provided in the appendix of this chapter.

The Lower Yakima River GRP planning area (YAK-GRP) encompasses approximately 676 square miles, and boarders the Middle Columbia River McNary Pool GRP to the southeast, and the proposed Upper Yakima River GRP (YAKU-GRP) to the northwest. It includes a 127 mile reach of the Yakima River, from the Highway I-182/US 12 Bridge at river mile (RM) 4.25 in West Richland, upstream to RM 131.25, above the Roza Diversion Dam (RM 128). The planning area resides within Water Resource Inventory Area Rock-Glade (WRIA 31), Lower Yakima (WRIA 37), Naches (WRIA 38), Upper Yakima (WRIA 39), and Alkali-Squilchuck (WRIA 40). The communities of Benton City, Grandview, Granger, Moxee, Prosser, Selah, Union Gap, Wapato, West Richland, and Yakima are located within the boundaries of this planning area, as well as portions of Benton, Kittitas, and Yakima counties. The northeastern part of the Yakama Nation reservation also falls within this plan's boundaries.

Additional information about the planning area, including physical features, hydrology, climate and winds, tides and currents, and oil spill risks, can be found in Chapter 2 (Site Description). Information about potential response options in the planning area can be found in Chapter 3 (Response Options and Considerations). The bulk of this plan is contained in Chapter 4 (Response Strategies and Priorities). It provides information on tactical response strategies and the order they should be implemented, based on Potential Oil Spill Origin Points (POSOPs) and the proximity and relative priority of sensitive resources near those point locations. Area and sector maps and information on staging areas and boat launch locations are also provided in that chapter.

**Control and Containment of an Oil Spill are a Higher Priority than the Implementation of GRP Response Strategies**
If in the responder’s best judgment, control and containment at or near the source of a spill isn’t feasible, or if the source is controlled and contained but oil has spread out beyond initial containment, then the priorities laid out in Section 4.3 of this plan should take precedence until a Unified Command is formed. Oil spill response priorities, beyond those described in this plan, should rely on aerial observations and spill trajectory modeling. A booming strategy listed as a high priority in Section 4.3 would not necessarily be implemented if a spill trajectory did not warrant action in that area; however, the priority tables should be followed until oil spill trajectory information becomes available. During an incident, modifications to the deployment priorities provided in Section 4.3 of this plan may be made if approved by the Incident Commander, Unified Command, or are identified as necessary by the Environmental Unit.

The downstream movement of oil and the time it takes to mobilize response resources to deploy GRP strategies must always be considered when setting strategy implementation priorities. The strategies discussed in this plan have been designed for use with oils that float on water and may not be suitable for other petroleum products or hazardous substances. For information about non-floating oil spill response, refer to the Non-Floating Oil Spill Response Tool in the Northwest Area Contingency Plan (NWACP), Section 9412. For hazardous substance spills, refer to the NWACP, Chapter 7000. For policy on gasoline and flammable liquid spills refer to the NWACP, Section 4622.

Information meant to support initial Environmental Unit functions can be found in Chapter 6 of this plan (Resources at Risk). Chapter 6 and its appendix provide information about the type and location of natural and economic resources in the area. Specific information about the location of cultural sites in the planning area was taken into consideration in the development of this plan but, because of the confidential nature of the material, details about cultural and historic sites aren’t included in this document.

1.1 GRP CHAPTERS AND APPENDICES

Chapter 1 Introduction
Appendix 1A Comments, Corrections, or Suggestions
Chapter 2 Site Descriptions
Chapter 3 Response Options and Considerations
Chapter 4 Response Strategies and Priorities
Appendix 4A Response Strategies
Appendix 4B Notification Strategies
Appendix 4C Staging Area Locations
Appendix 4D Boat Launch Locations
Chapter 5 Reserved
Chapter 6 Resources at Risk
Appendix 6A List of Economic Resources in Area

1.2 GEOGRAPHIC RESPONSE PLAN DEVELOPMENT PROCESS

GRPs are part of the Northwest Area Contingency Plan, just developed and revised separately. The plans are prepared through the efforts of, and in cooperation with, Washington Department of
Ecology, Oregon Department of Environmental Quality, Idaho Bureau of Homeland Security, U.S. Coast Guard, U.S. Environmental Protection Agency, as well as other state and federal agencies, tribes, local governments, natural resource trustees, response organizations, emergency responders, and communities. GRPs are developed through workshops, field work, and meetings. Participants identify resources that may be at risk of injury from spills and work to develop oil spill response or notification strategies to reduce the chance of injury to those resources.

After compiling information on sensitive resources in the area, site visits are conducted to gather data and determine if spill response strategies near those resources should be added, modified, or deleted. In this, the anticipated effectiveness of existing strategies are reviewed, modifications made as determined necessary, potentially unsafe or ineffective strategies removed, and new strategies added to the plan. Unfortunately, the dynamics of marine and inland water environments, and the present limitations of response technology, make the development of strategies for all sensitive resource locations impracticable. A draft plan is produced after site visits are completed, and made available for public review and comment before a final version of the GRP is produced and published. A responsiveness summary is also published that addresses public comments received during the GRP update and development process.

1.3 STANDARDIZED RESPONSE LANGUAGE

In order to avoid confusion in response terminology, this plan uses standard National Interagency Incident Management System, Incident Command System (NIIMS ICS) terminology.

1.4 TERMINOLOGY AND DEFINITIONS

The glossary provided in Section 1910 of the NWACP and other sections of the area plan with glossaries independent of Section 1910 should be used when seeking the meaning of terms used in this plan.
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APPENDIX 1A

Comments, Corrections, or Suggestions

Geographic Response Plans (GRPs) are living documents that can be revised at any time based on new information from comments and lessons learned from drills and spills. These changes are typically reflected as interim updates on the websites for each GRP until they are fully incorporated into the plan during a future update.

We value your input and hope that you will submit comments on how this plan might be improved. If you have any questions or comments, suggestions for improvement, or find errors in this document please submit comments online at http://www.rrt10nwac.com/Comment, email them to us at GRPs@ecy.wa.gov, or forward them via U.S. Mail to the following agencies:

United States Environmental Protection Agency
Region 10
Office of Environmental Cleanup
1200 Sixth Avenue
Room ECL-116
Seattle, WA 98101

Washington State Department of Ecology
Spill Prevention, Preparedness, and Response (GRPs)
P.O. Box 47600
Olympia, WA 98504-7600

The form on the following page of this attachment can be used to submit comments by mail. Contact information is requested so that we can give you a call if more information or comment clarification is needed.

Please use the GRP Field Report Form for providing information on GRP strategy field visits or the testing of response strategies. The form is available online at http://www.ecy.wa.gov/programs/spills/preparedness/GRP/Form-GRPFieldReport.pdf. Additional information on Geographic Response Plans is available at http://www.rrt10nwac.com/GRP.
GRP Comment Form

Today's Date: ____________________________
Your Name: ______________________________
Title: ________________________________
Company/Agency: _________________________
Address: ________________________________
City: _________________________________
State/Province: _________________________ Zip: ________________________________
Email: ________________________________ Ph: ______________________________
GRP Page Number: ________________ Section or Paragraph: _______________________
Comment(s): ______________________________

Mail Completed Form to:
US Environmental Protection Agency
Region 10
Office of Environmental Cleanup
1200 Sixth Avenue Room ECL-116
Seattle, WA 98101

Washington State Department of Ecology
Spills Program (GRPs)
P.O. Box 47600
Olympia, WA 98504-7600
CHAPTER 2

Site Description

2.1 CHAPTER INTRODUCTION

This chapter provides an overview of the area’s physical features, hydrology, climate and winds, and tides and currents in the Lower Yakima River GRP planning area, and an oil spill risk assessment in Section 2.6. The Lower Yakima River GRP boarders the Middle Columbia River McNary Pool GRP to the southeast, and the proposed Upper Yakima River GRP to the northwest. From the Highway I-182/US 12 Bridge at river mile (RM) 4.25 in West Richland, the planning area follows the Yakima River upstream to RM 131.25, above the Roza Diversion Dam at RM 128. The planning area covers about 676 square miles and resides within Water Resource Inventory Area Rock-Glade (WRIA 31), Lower Yakima (WRIA 37), Naches (WRIA 38), Upper Yakima (WRIA 39), and Alkali-Squilchuck (WRIA 40). The communities of Benton City, Grandview, Granger, Moxee, Prosser, Selah, Union Gap, Wapato, West Richland, and Yakima are located within the boundaries of this planning area, as well as the northeastern corner of reservation lands for the Yakama Nation, and portions of Benton, Kittitas, and Yakima counties.

2.2 PHYSICAL FEATURES

The physical features of the area now known as eastern and central Washington and Oregon were greatly influenced by volcanic activity, which built up a stratum of mud, ash, and lava in the geologic column during the Eocene (55.8-33.9 million years ago), Oligocene (33.9-23 million years ago), and Miocene (23-5.3 million years ago) Epochs. Basalt flows, known as the Columbia River Basalt Group, then covered the area in layers, forming a strong foundation of basaltic rock at least one mile thick. Subsequent lava and ash eruptions raised the Cascade Mountains during the Miocene Epoch, after which the mountains began to lift, when hundreds of volcanoes erupted during the Pleistocene Epoch (2.6 million – 11,700 years ago). As the mountains rose, the Yakima, Snake, and Columbia Rivers carved out deep gorges. Towards the end of the Pleistocene (~16,000-14,000 years ago) the Missoula floods battered these gorges over 100 times when the glacial dam forming Glacial Lake Missoula was repeatedly breached, releasing high velocity debris-filled waters to a height of 900 feet and scouring the landscape with a discharge of 10 million cubic feet per second. This series of events has been described as one of the greatest flood occurrences in the history of the earth.

The geologic composition of the Yakima Basin limits the amount of sediment transported downriver. Erosional and depositional forces still play a major role in the life of the river, although

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1 http://www.ucmp.berkeley.edu/cenozoic/cenozoic.php
2 http://hugefloods.com/Basalt.html
eroded material from the Cascades largely replaces what is swept away. Over time, through erosion and deposition, the Yakima River has frequently changed its course over the wide floodplain.\(^5\) The main channel has shifted to the north and south of its present location as the flow varied seasonally over the eons.

Water from both the Yakima and Naches Rivers is of critical importance to the region. The majority of the Yakima Valley is comprised of a shrub-steppe landscape which is common in dryer soil locations away from water areas. River banks and shoreline habitats exhibit wetland characteristics with vegetation in the bottom lands that include: cottonwood, willow, hawthorn, wild rose chokecherry, serviceberry and other deciduous plants.\(^6\) Riparian habitat in the planning area is also rich in fish, including salmon, and wildlife including migratory birds and native species.

An abundance of water and wildlife created an ideal environment for human habitation. The land surrounding the Yakima and Naches Rivers provides ample evidence that humans have been present in the area for thousands of years. The oldest evidence is a Clovis-style projection point discovered on the pre-reservoir shoreline of Cle Elum Lake was dated to approximately 11,500 years ago.\(^7\) The first inhabitants of the Yakima Basin were believed to have been nomads who established temporary hunting, fishing, or gathering camps between 11,000 and 4,500 BCE. Over time, native peoples began to become more reliant on fish and other resources in the area. Archaeological evidence from about 3,000 BCE suggests that people harvesting salmon, starting living in shallow pithouses along the rivers in the area, while continuing to visit hunting and fishing camps located elsewhere. By 1,900 BCE, pithouses were widely used by an increasingly large population with a heavier reliance on salmon fishing. More permanent accommodations had been established by 1000 CE, as evidenced by winter villages with pithouses and large longhouses. The winter villages evolved into major settlements where inhabitants lived in circular houses with conical roofs.\(^8\) One major village on the Lower Yakima River, called “tsikik” or “spring,” had an estimated population of 2,000. These early inhabitants of the Yakima River Basin were the ancestors of the tribes and bands that remain in the area today.

Europeans and Americans had begun exploring the coasts and trading in the Pacific Northwest in the 18\(^{th}\) century with trade items being transported inland into the Yakima River Basin during that period by Native Americans. First contact between Euro-Americans and Native Americans in the region occurred in 1805 when the Lewis and Clark Expedition traveled down the Snake River and into the Columbia River, stopping at the confluence with the Yakima River.\(^9\) By the early 19\(^{th}\) century Euro-Americans were entering the area as explorers and fur traders, after which military, missionaries, and settlers arrived, establishing towns by the latter half of the century.

The United States of America wished to secure access to the region’s natural resources for the benefit of its growing population. In 1854 and 1855 the Washington Territory Governor, Isaac

\(^{5}\) [http://www.yakimacounty.us/DocumentCenter/Home/View/1005 (4-1)]

\(^{6}\) [http://www.yakimacounty.us/DocumentCenter/View/1118 (2-13)]

\(^{7}\) [https://www.usbr.gov/pn/programs/yrbwep/reports/FPEIS/fpeis.pdf (3-94)]

\(^{8}\) [https://www.usbr.gov/pn/programs/yrbwep/reports/FPEIS/fpeis.pdf (3-95)]

\(^{9}\) Lewis, 1992 [http://frontiers.loc.gov/cgi-bin/query
Stevens, traveled across what is now Washington State to negotiate and sign treaties with every
Native American tribe.\(^{10}\) Several treaties were signed at Camp Stevens, in the Walla Walla Valley,
including the Yakima Treaty, which united 14 tribes and bands into the Yakama Nation on June 9,
1855.\(^{11}\) The Confederated Tribes of the Umatilla signed the Walla Walla Treaty that same day, and
the Nez Perce Tribe signed a treaty two days later.\(^{12}\)

The Euro-American population in the valley grew quickly after the treaties were signed. Yakima
County was established in 1865 and the original Yakima City was founded in 1883.\(^{13}\) Northern
Pacific Railroad installed rail lines four miles north of Yakima City, inspiring many local business
owners to move their buildings closer to the terminal, thereby establishing North Yakima, which
was incorporated in 1886.\(^{14}\) The “North” was eventually dropped and the city is now just known as
Yakima, while the original, “Old Town,” is known as Union Gap.

Due to the low amount of annual rainfall in the area, irrigation is and has been critically important
to the development of farmlands in the Yakima Valley. The first irrigation ditch was installed as
early as 1853.\(^{15}\) Private irrigation ventures that diverted water from the Yakima and Naches Rivers
continued through the early 1900’s. Later, the state and federal governments became involved in
irrigation systems. In hopes that agriculture in the valley might flourish.\(^{16}\) The United States
government’s newly established Bureau of Reclamation (USBR) began the Yakima Project in 1905,
building infrastructure to capture and direct the movement of water in an efficient manner.\(^{17}\) The
Yakima Project eventually led to the construction of nine dams and two power plants in the area.

During the second half of the twentieth century, the perennial struggle over water among various
interest groups became increasingly bitter. All water rights in the area had been assigned, making
the acquisition of water to meet future demands for municipal and domestic needs difficult.\(^{18}\)
Controversy over water was exacerbated by the impacts to native habitat and wildlife caused by
massive withdrawals of water for agriculture and other economic endeavors.\(^{19}\) Now, a complex
system of water rights is used to guide the appropriation of water in the Yakima River. In 2012,
The Yakima Basin Integrated Water Resource Management Plan was developed between the U.S.
Bureau of Reclamation, Washington Department of Ecology, the Confederated Tribes and Bands of
the Yakama Nation, and other federal, state, county, and municipal stakeholders.\(^{20}\) The
management plan established the framework for current and future actions so the water needs of
all stakeholders might be met. The plan includes elements related to fish passages, fish habitat

\(^{10}\) Glowen (nd) http://www.narhist.ewu.edu/native_americans/timelines/timeline_wars_treaties.html
\(^{11}\) https://www.usbr.gov/pn/programs/yrbwep/reports/FPEIS/fpeis.pdf (3-94)
\(^{12}\) Glowen (nd) http://www.narhist.ewu.edu/native_americans/timelines/timeline_wars_treaties.html
\(^{13}\) https://www.usbr.gov/pn/programs/yrbwep/reports/FPEIS/fpeis.pdf (3-95)
\(^{14}\) Great Yakima Chamber of Commerce http://www.wagenweb.org/yakima/history.html
\(^{15}\) Great Yakima Chamber of Commerce http://www.wagenweb.org/yakima/history.html
\(^{16}\) https://www.usbr.gov/pn/programs/yrbwep/reports/tm/1watres.pdf
\(^{17}\) http://www.usbr.gov/pn/programs/yrbwep/reports/FPEIS/fpeis.pdf
\(^{19}\) http://www.ecy.wa.gov/programs/wr/cwp/YBIP.html
enhancements, modification and operation of existing structures, surface water storage, groundwater storage, enhanced water conservation, and market-based reallocation.21

Today, the effective management of water rights has helped make the Yakima Valley one of the most productive and diversified farming regions in the nation.22 Production includes fruit tree crops (apple, cherry, and pear), alfalfa, hops, mint, grapes, green beans, peas, and corn. Many believe that the Yakima and Naches Rivers, and their associated riparian ecosystems, are integral to the region’s quality of life. Water also provides economic benefits from tourism and recreation. Fly-fishing is popular on the Yakima River; the state’s only “Blue Ribbon” trout stream.23 Wildlife viewing, kayaking, and rafting are also popular recreational activities in the planning area.

2.3 HYDROLOGY

The Yakima River originates in the Cascade Range as an outlet from Keechelus Lake at the Keechelus Dam (~RM 215), about 8 miles southeast of Snoqualmie Pass. Outflows from Bumping, Kachess, Rimrock, and Cle Elum Lakes are also dam controlled, and feed into the Yakima River through tributary rivers and creeks downstream. The dams and lakes (reservoirs) are managed by USBR as part of the larger Yakima Project, which provides irrigation water for a narrow strip of fertile land that extends for 175 miles on both sides of the Yakima River. The irrigable lands presently being served total approximately 464,000 acres. The total water holding capacity among the five reservoirs is 1,065,670 acre-feet.24 Water is typically stored in the reservoirs during winter months and released in the summer, reducing or contributing to water flow in the Yakima River. Mountain snowpack, known as the “sixth reservoir,” also plays a crucial role in recharging the lakes during warmer periods.

The Yakima Project is separated into seven divisions: Storage, Kittitas, Tieton, Sunnyside, Roza, Kennewick and Wapato. Four of those divisions fall within the area boundaries of this plan, including:

1. The Roza Division is located on the Yakima River at river mile 127.9. The Roza Diversion Dam marks the upstream border of the Roza Division, which is managed by the USBR, and provides water to approximately 27,000 acres. The Roza power plant, one of the two power plants in the planning area, is located within this division. The Roza power plant provides electricity for nearby irrigation pumps.25

21 ECY http://www.ecy.wa.gov/programs/wr/cwp/YBIP.html
22 Great Yakima Chamber of Commerce http://www.wagenweb.org/yakima/history.html
2. The Wapato Division begins at the Wapato Diversion Dam (RM 106.7) and is operated by the U.S. Bureau of Indian Affairs (USBIA) with support from the Yakama Nation. This division irrigates approximately 136,000 acres.

3. The Sunnyside Division begins at the Sunnyside Diversion Dam (RM 103.8) and ends near Benton City, it provides irrigation to approximately 99,000 acres of land in the lower Yakima Valley. The division is managed by four separate irrigation districts: Sunnyside Valley Irrigation District, Grandview Irrigation District, Benton Irrigation District, and the Zillah Irrigation District.  

4. The Kennewick Division begins at the Chandler Diversion Dam, (RM 47.1) and is managed by the USBR as one irrigation district. This division provides water to 19,171 acres of irrigable land. The second of two power plants, the Chandler Pumping and Generating Plant, is located within the division and is also operated by USBR. The plant provides electricity for the Bonneville Power Administration’s grid. A ten-mile canal leading from the Chandler Diversion Dam directs water to the plant.

The planning area resides within Water Resource Inventory Area Rock-Glade (WRIA 31), Lower Yakima (WRIA 37), Naches (WRIA 38), Upper Yakima (WRIA 39), and Alkali-Squilchuck (WRIA 40). Much of central Washington is arid, receiving less than 20 inches of rain annually. Precipitation typically occurs during the winter months when overall water demands are the lowest. During the summer, snow pack is gone, there is little rain, and naturally low stream flows are dependent on groundwater inflow. This means that groundwater and surface water are least available when water demands are the highest.

- **Rock-Glade** (WRIA 31): This watershed comprises the southern portion of Benton County, eastern side of Klickitat County, and southeast corner of Yakima County. It’s bounded by the Columbia River to the east and south. Rock Creek and Glade Creek are included in this area.

- **Lower Yakima** (WRIA 37): This watershed comprises portions of Benton, Klickitat, and Yakima Counties. A significant portion of the Yakama Nation Reservation also resides within this area. The Yakima River extends through the watershed to its confluence with the Columbia River near Richland, WA.

- **Naches** (WRIA 38): This watershed comprises portions of Kittitas and Yakima Counties. The Naches River extends through the area to its confluence with the Yakima River in Yakima, WA. The Tieton River is also located within this area. It extends from uplands above Clear Lake and Rimrock Lake, downstream to its confluence with the Naches River near Naches, WA.

- **Upper Yakima** (WRIA 39): This watershed comprises portions of Kittitas and Yakima Counties. The Yakima River extends through the area from Keechelus Lake below the reservoir.

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Snoqualmie Pass, downstream to Selah, WA. The Kachess, Cle Elum, and Teanaway Rivers are also included in this watershed.

**Alkali-Squilchuck (WRIA 40):** This watershed comprises the northern section of Benton County, southeastern Chelan County, eastern Kittitas County, and northeastern Yakima County. Bounded by the Columbia River to the east, the watershed extends from Squilchuck Creek, downstream through the Hanford Reservation to Richland. Alkali Creek, Cummings Canyon Creek, Squilchuck Creek, and Stemilt Creek are included in this area.

### 2.4 CLIMATE AND WINDS

The climate of the Yakima River Basin is greatly influenced by a substantial change in elevation between the upper and lower sections of the Yakima River. The upstream extent of the river at the Keechelus Dam is at an elevation of 2,449 feet. From there, the river drops 2,109 feet in elevation before joining the Columbia River in Richland at an elevation of 340 feet. The Yakima River is situated on the east side of the Cascade Mountain Range which has an elevation in excess of 8,000 feet.27

Clouds enter Washington from the Pacific Ocean to the west and rise to cross the Cascades. They release the majority of their water at higher elevations in order to make it over the mountain barrier. Typically, 140 inches of precipitation falls every year near the five reservoirs in the Upper Yakima River. Little rain is left for the eastern side of the Cascades and the Yakima River Valley, which only receives an average of ten inches of precipitation annually.28 Precipitation primarily occurs as drizzle or intermittent rains in December and January with extended periods of cloudiness.29 A few regional storms with showers occur in winter but heavy rain is rare. The climate in the Yakima River Valley is semi-arid; hot in the summer and cold in the winter. Between the cities of Yakima and Richland, low temperatures average 21°F to 27°F in December, while highest temperatures in both locations average 88°F in July.

Prevailing winds in the area are typically from the southwest or west, but northeasterly winds generally persist in fall and winter months.30 Wind velocities usually range from 4-12 mph, with 13-24 mph winds occurring 15-24% of the time. Winds in excess of 25 mph occur about 2% of the time. When high velocity winds do occur they are usually associated with rapidly moving weather systems entering the area from the west or southwest. The likelihood of winds over 80 mph is rare; about once every 100-years. Winds between 60-70 mph might occur once every 50-years or so, while wind events with speeds up to 50 mph can be expected every other year.

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30 Western Regional Climate Center http://www.wrcc.dri.edu/narratives/WASHINGTON.htm
2.5 TIDES AND CURRENTS

Although there are no tidally influenced locations within this planning area, the dramatic difference in seasonal precipitation has historically created large swings in flow rates in the Yakima and Naches Rivers which, in turn, influence river currents. The Yakima River’s flow is now moderated by the presence of reservoirs, dams, and other irrigation infrastructure. The reservoirs managed by the Yakima Project have reduced winter flows by storing water within lake reservoirs, and have increased summer flow rates by releasing water back into the river. From spring through fall, diversion dams and other irrigation measures are used extensively on the river to direct the flow of water. USBR and local irrigation districts determine when and how much water is allowed to pass through any given area. The lowest flow rates on the Yakima River typically occur during the late summer, autumn, and winter months. Higher flows usually occur during the spring snow melt.

2.6 RISK ASSESSMENT

The Lower Yakima River is plentiful in natural, cultural, and economic resources, all at risk of injury from oil spills. Potential oil spill risks include, but are not limited to, road transportation, rail transportation, aircraft, recreational boating, and other oil spill risks. This section briefly discusses these risks and how they could impact this planning area.

Road Systems: Vehicle traffic on roadways pose an oil spill risk in areas where they run adjacent to the shorelines, or cross over lakes, rivers, creeks, and ditches that drain into the Yakima River. The most significant highway in the area is Interstate 82 (I-82). It parallels the river along much of its length, and crosses over it four times within the boundaries of this planning area. The interstate also crosses the Naches River at one location. There are many primary, secondary and tertiary routes that also parallel the Yakima River, including Highway 12, 22, 24, 97, 223, and 225. In the City of Yakima, Highway 12 splits from I-82 and extends in a northwesterly direction, parallel to the Naches River in many areas, crossing over it at one location.

A vehicle spill onto one of these bridges or roadways can cause fuel or oil to flow from hardened surfaces into the Yakima River or its tributaries. Commercial trucks can contain hundreds to thousands of gallons of fuel and oil, especially fully loaded tank trucks, and may carry almost any kind of cargo, including hazardous waste or other materials that might injure sensitive resources if spilled. Smaller vehicle accidents pose a risk as well, a risk commensurate to the volume of fuel and oil they carry.

Rail Transportation and Facilities: Rail companies transport oil via manifest trains in this area. Manifest trains include: up to four locomotives, a mix of non-oil merchandise cars, and one or more 714-barrel (29,998 gallon) capacity USDOT-approved tank cars carrying refined oil products, such as diesel, lubrication oil, or gasoline. These trains may include

emptied tank cars, each with residual quantities of up to 1,800 gallons of crude oil or petroleum products. Every train locomotive typically holds a few hundred gallons of engine lubrication oil, plus saddle tanks that each have an approximate capacity of 5,000 gallons of diesel fuel. Manifest trains may also transport biological oils and non-petroleum chemicals.

The BNSF Yakima Subdivision runs adjacent to the Yakima River along much of its length, crossing the river four times within the planning area. BNSF track also runs adjacent to the Naches River between Yakima and Naches, parallel to Highway 12, crossing the river at one location. In addition to BNSF, five other railroad companies own or operate track in the area, including: Central Washington Railroad, Tri-City Railroad Company, Union Pacific, Yakima Central Railway, and Yakima Valley Trolleys.

Yakima Valley Trolleys is a non-profit organization (501-C3) that works to preserve America’s last intact, early 20th Century, interurban electric railroad. It’s considered a living history museum that also provides transit services to the public.33

**Aircraft:** The Yakima Air Terminal-McAllister Field is the largest airport in the planning area. It’s owned by the City of Yakima and used for commercial and general aviation services. There are several smaller airports and helipads in the planning area, close to the river. The potential exists for aircraft failures during inbound or outbound flights that could result in the Yakima River or one of its tributary streams.

**Recreational Boating:** Accidents involving recreational water craft on the Yakima River have the potential to result in spills of a few gallons of gasoline up to hundreds of gallons of diesel fuel. Examples of such accidents might include vessel collisions, allisions, groundings, fires, sinking, or explosions. Bilge discharges and mishaps during boat refueling operations are generally the most typical types of oil spills to occur.

**Other Spill Risks:** Other potential oil spill risks in the area include fuel storage areas (including waste oil storage), road run-off during rain events, on-shore or near shore activities where heavy equipment is being operated or stored, mechanical failures at dams or power generating facilities, and the migration of spilled oil through soil on lands adjacent to the river or its tributary streams.

### 2.7 REFERENCES


33 [http://www.yakimavalleytrolleys.org/future.html](http://www.yakimavalleytrolleys.org/future.html)


# CHAPTER 3

## Spill Response Options and Considerations

### Waterbody

<table>
<thead>
<tr>
<th>Waterbody</th>
<th>Location</th>
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<td>Creeks</td>
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<td>Lakes</td>
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<td>Pool Area formed by Dam</td>
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<td>Tidally Influenced Areas</td>
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<td>Wetland Area(s)</td>
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<td>Intermittent Streams (Seasonal Flow)</td>
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### Potential Response Options

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<td>Aerial/Vessel Surveillance Activities</td>
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<tr>
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<td>Collection for Skimming Operations (Note: 1)</td>
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<td>Vessel Based Skimming Operations (Note: 2)</td>
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<td>Shoreside Cleanup Activities (Note: 5)</td>
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<td>In-Situ Burning Areas not pre-approved (Note: 8)</td>
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<td>Dispersant Use Areas not pre-approved(Note: 9)</td>
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### Considerations

<table>
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<tr>
<td>Shoreside Access can be Limited by Geography</td>
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<tr>
<td>Shoreside Access can be Limited by Private Property</td>
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<td>State or National Wildlife Refuge/Recreation Area</td>
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<td>Threatened/Endangered Terrestrial Species (Note: 6)</td>
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<td>Recreational Boat Traffic</td>
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<td>Interstate Highway Corridor</td>
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<td>Oil Pipeline(s) in Area</td>
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**Note 1**: Collection for Skimming Operations response options should include use of enhanced skimming using a U-boom, V-boom, or J-boom configuration in waters large enough for boats to maneuver (e.g., lake, large river).

**Note 2**: Vessel Based Skimming Operations response options should include use of advancing skimmers: weir, belt, brush, drum, or other skimmer types.

**Note 3**: Shore Based Skimming Operations response options should include use of fixed skimmers: weir, belt, brush, drum, or other skimmer types.

**Note 4**: Shoreline Protection should include the deployment of response strategies (boom) to divert and collect oil off of the water before shoreline areas are impacted, or deflect and exclude oil away from shoreline areas. These strategies include those published in this document (GRP response strategies), those provided in other plans (e.g., facility contingency plans), and “ad-hoc” strategies developed during the spill itself. A culvert block or underflow dam might be installed to aid in the recovery of spilled oil in small streams or those with intermittent flow.

**Note 5**: Shoreside Cleanup options depend on safe and efficient access to locations and the type of river, creek, or stream bank present. Potential activities could include flooding, flushing, manual removal, vacuum, mechanical removal, sorbents, vegetation cutting, mechanical tilling/aeration, and/or sediment reworking/surf washing.

**Note 6**: More information available in Chapter 6. Response and cleanup in these areas may require coordination with Federal or State Fish and Wildlife staff to reduce disturbances to upland species.

**Note 7**: This sheet doesn’t represent all locations where Tribes and Tribal Nations have lands or areas of specific interest (including lands established by treaty or rights to Usual and Accustomed areas). Early coordination with tribal governments is highly recommended during a response, regardless of the spill location or potential impact areas.

**Note 8**: These areas are not pre-approved for the use of in-situ burning. Refer to the Northwest Area Contingency Plan for the dispersant Policy.

**Note 9**: These areas are not pre-approved for the use of dispersants. Refer to the Northwest Area Contingency Plan for the dispersant policy.

Figure 3-1. Response Options and Considerations Area
LOWER YAKIMA RIVER
Geographic Response Plan

(YAK-GRP)

CHAPTER 4
Response Strategies and Priorities

June 2017
Before you print this document

This chapter and its appendices, as well as the appendix at the end of Chapter 6, are provided in “landscape” page orientation. The detailed 2-page information sheets for each pool’s response strategies, notification strategies, staging areas, and boat launch locations in appendices 4A though 4D (pages 119-488) have been designed for duplex printing (front and back side of paper), “open to top” configuration.
4.1  CHAPTER INTRODUCTION

This chapter provides information on GRP response strategies and the order they should be implemented, based on Potential Oil Spill Origin Points (POSOPs) and the proximity and relative priority of sensitive resources near those point locations. Area maps, sector maps, and information on staging areas and boat launch locations are also provided in this chapter. During a spill incident, GRP response strategies should be implemented as soon as possible. Unless circumstances unique to a particular spill situation dictate otherwise, the priority tables in Section 4.3 should be used to decide the order that GRP strategies are deployed. The downstream movement of oil and the time it takes to mobilize response resources to deploy GRP strategies must always be considered when setting implementation priorities. Information on resources at risk, sensitive areas, and flight restrictions can be found in Chapter 6 of this plan. Information on shoreline countermeasures can be found in the Northwest Area Shoreline Countermeasures Manual (NWACP Section 9420). The Northwest Area Contingency Plan (NWACP) is available online at http://www.rrt10nwac.com/NWACP/Default.aspx.

The GRP strategies provided in this chapter have been created to reduce spilled oil's impact on sensitive resources. They are not everything that should or could be done during a response to lessen the chance of injury to natural, cultural, and economic resources at risk from oil spills. Control and containment of an oil spill is always a higher priority than the implementation of GRP response strategies. Although designed to be implemented during the initial phase of an oil spill, GRP strategies may continue to be used throughout a response at the discretion of the Incident Commander, Unified Command, or the Environmental Unit.

4.1.1  On-site Considerations

Before Deploying a GRP Strategy (Questions to Ask)

- Are conditions safe?  Response managers and responders must first determine if efforts to implement a response strategy would pose an undue risk to worker safety or the public, based on conditions present during the time of the emergency.  No strategy should be implemented if doing so would threaten public safety or present an unreasonable risk to the safety of responders.

- Has initial control and containment been sufficiently achieved?  Control and containment of the spill at or near the source are always higher priorities than the deployment of GRP response strategies, especially when concurrent response activities are not possible.

- How far downstream or out into the river environment is the spilled oil likely to travel before response personnel will be ready and able to deploy GRP response strategies?
• Are permits required? Consult the Northwest Area Contingency Plan Permit Summary Table (NWACP Section 9401) for information specific to your location and circumstance.

• Will equipment or vehicles need to be staged on or near a roadway? If so, traffic control may be required. Contact the Washington State Patrol, or local, county, municipality, or tribal police for assistance. At minimum, Washington Department of Transportation (WSDOT) guidelines for work zone traffic control should be followed when working on or near a roadway.

  o Benton County Sheriff (509) 735-6555
  o City of Yakima Police (509) 575-6200
  o Kittitas County Sheriff (509) 962-7525
  o Washington State Patrol District #3 (509) 575-2320
  o Washington State Patrol District #5 (360) 449-7909
  o Yakama Nation Public Safety (509) 865-5121 x4200
  o Yakima County Sheriff (509) 574-2500

**During Strategy Implementation (Things to Remember)**

• On-scene conditions (weather, currents, tides, waves, river speed, and debris) may require that strategies be modified in order to be effective. There is a significant chance that weather and conditions experienced at a particular strategy location during an actual spill event will be different from that when data was gathered during field visits. Response managers and responders must remain flexible and modify the strategies provided in this chapter as needed to meet the challenges experienced during an actual response.

• Certain strategies may call for access points or staging areas that are not easily reached at all times of the year or in all conditions.

• The GRP response strategies provided in this chapter were designed for use with persistent heavy oils that float on water and may not be suitable for other petroleum products or hazardous substances. For information about non-floating oil responses, refer to the Non-Floating Oil Spill Response Tool in the Northwest Area Contingency Plan (NWACP), Section 9412.
**After Strategy Implementation (Things to Understand)**

- Oil containment boom should be maintained and periodically monitored to ensure its effectiveness. Changes in river or current speed will likely require modifications to boom deflection angles (see Table 4.1). Depending on conditions, some booming strategies may require around-the-clock tending.
**Water Speed and Boom Deflection Angle**

Measure the speed that water is moving by anchoring a line with two floating markers/buoys attached that are spaced 100 feet apart. Time the movement of floating debris between the two buoys, and then use Table 4.1 to estimate the water speed based on the travel time of the debris between the two buoys. You can also measure 100 feet along a straight portion of river bank or shoreline, and time the movement of debris between those points, but this method is generally less accurate than using the buoys. The maximum boom deflection angle is also provided in the table, based on the water speed measurements.

**Table 4.1: Water Speed Drift Measurement Table**

<table>
<thead>
<tr>
<th>Time to Drift 100 Feet (seconds)</th>
<th>Velocity (ft/sec)</th>
<th>Velocity (m/sec)</th>
<th>Velocity (knots)</th>
<th>Max Boom Deflection Angle (degrees)</th>
<th>Boom required for 100-foot Profile to Current (feet)</th>
<th>Anchors needed if Placed Every 50 feet (number)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>16.7</td>
<td>5.1</td>
<td>10.00</td>
<td>4.0</td>
<td>1,429</td>
<td>30</td>
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<tr>
<td>8</td>
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<td>7.50</td>
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<td>8.0</td>
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<td>15</td>
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<td>3.00</td>
<td>13.5</td>
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<td>1.3</td>
<td>2.50</td>
<td>16.3</td>
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<td>3.3</td>
<td>1.0</td>
<td>2.00</td>
<td>20.5</td>
<td>286</td>
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<tr>
<td>40</td>
<td>2.5</td>
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<td>27.8</td>
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<td>60</td>
<td>1.7</td>
<td>0.5</td>
<td>1.00</td>
<td>44.4</td>
<td>143</td>
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<tr>
<td>&gt;86</td>
<td>≤1.2</td>
<td>≤0.35</td>
<td>≤0.70</td>
<td>90.0</td>
<td>100</td>
<td>3</td>
</tr>
</tbody>
</table>

*Source: Oil Spill Response in Fast Currents. A Field Guide. U.S. Coast Guard Research and Development Center. October, 2001*
4.1.2 Historical River Flow Ranges

Table 4.1.2 provides historical river outflow data which was obtained for both the Yakima and Naches Rivers using the U.S. Bureau of Reclamation’s Hydromet database of automated data from a network of hydrologic and meteorologic monitoring stations located throughout the Pacific Northwest (2016). Information on outflow, and other performance measures, can be found online at https://www.usbr.gov/pn/hydromet/. Outflow is recorded in cubic feet per second (cfs). Table 4.1 provides information that can be used to calculate river velocities based on the time it takes a floating object to drift 100 feet downstream from any given point in a river or creek. Additional information on calculating river velocities can be found in the Northwest Area Contingency Plan Section 9302.

Table 4.2: Historical River Streamflow Ranges

<table>
<thead>
<tr>
<th>2006-2016 Monthly Average Outflow in Cubic Feet per Second (cfs)</th>
<th>Yakima River below Roza Dam</th>
<th>Naches River near Yakima</th>
<th>Yakima River at Prosser</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>972</td>
<td>1,195</td>
<td>3,297</td>
</tr>
<tr>
<td>February</td>
<td>933</td>
<td>1,141</td>
<td>2,725</td>
</tr>
<tr>
<td>March</td>
<td>1,047</td>
<td>1,469</td>
<td>3,205</td>
</tr>
<tr>
<td>April</td>
<td>1,685</td>
<td>2,350</td>
<td>3,808</td>
</tr>
<tr>
<td>May</td>
<td>2,168</td>
<td>3,737</td>
<td>5,167</td>
</tr>
<tr>
<td>June</td>
<td>1,652</td>
<td>3,420</td>
<td>3,679</td>
</tr>
<tr>
<td>July</td>
<td>1,780</td>
<td>1,313</td>
<td>969</td>
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<tr>
<td>August</td>
<td>1,888</td>
<td>567</td>
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<td>September</td>
<td>584</td>
<td>1,562</td>
<td>668</td>
</tr>
<tr>
<td>October</td>
<td>737</td>
<td>749</td>
<td>1,035</td>
</tr>
<tr>
<td>November</td>
<td>1,070</td>
<td>1,021</td>
<td>2,251</td>
</tr>
<tr>
<td>December</td>
<td>789</td>
<td>901</td>
<td>3,190</td>
</tr>
<tr>
<td>Annual Averages</td>
<td>1,275</td>
<td>1,619</td>
<td>2,555</td>
</tr>
</tbody>
</table>
Figure 4-1: Mean Monthly Outflow for the Yakima and Naches Rivers
4.2 AREA OVERVIEW MAPS

The following maps provide a geographic overview of the Yakima River GRP planning area. Sector maps in Section 4.4 of this chapter provide more detail on the location of response strategies, notification strategies, staging areas, boat launch locations, and Potential Oil Spill Origin Points (POSOPs). Detailed information for each location can be found in the matrices of Section 4.5 or in the chapter appendices. Priority tables for potential oil spill origin points can be found in Section 4.3.2.

The following area maps are provided, by pool, for reference:

- Response Strategy Locations
- Notification Strategy Locations
- Staging Areas
- Boat Launch Locations
- Potential Oil Spill Origin Points
Figure 4-2: Response Strategy Locations
Figure 4-3: Notification Strategy Locations
Figure 4-4: Staging Area Locations
Figure 4-5: Boat Launch Locations

Sources: Esri, HERE, DeLorme, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan,
Figure 4-6: Potential Oil Spill Origin Point Locations
4.3 STRATEGY AND RESPONSE PRIORITIES

4.3.1 General Response Priorities

The following list provides the order of response priorities after an oil spill in the planning area.

- **Safety is always the number one priority.** Do not implement GRP strategies or take actions that will unduly jeopardize public, worker, or personal safety.
- Notify local public health and safety personnel.
- Control and contain the source of the spill; mobilize resources to the spill location. Source control and containment are always a higher priority than the implementation of GRP strategies.
- Determine the priority or order GRP strategies should be implemented based on the location of the spill or affected area. Priorities based on POSOPs are included in this chapter and should be used unless the situation or circumstances dictate otherwise (see Section 4.3.2).
- As response resources become available, implement the GRP Strategies in order of priority or as necessary based on the scenario, trajectory, or conditions of the day.
- Permits may be required. Consult the Northwest Area Contingency Plan Permit Summary Table ([NWACP Section 9401](https://example.com)) for information.

4.3.2 Strategy Priorities based on Potential Oil Spill Origin Points

Potential Oil Spill Origin Points (POSOPs) are geographic locations that have a defined list of response strategy implementation priorities provided in a table within Section 4.3. The placement of each POSOP is often based on spill risks in the area. Occasionally POSOPs are generalized to ensure implementation priorities are developed throughout an entire planning area.

These points are displayed on area overview and sector maps as red boxes. In establishing response priorities during a response, or selecting an appropriate POSOP, the downstream and/or tidal movement of spilled oil and the time it takes to mobilize and deploy response resources must be considered. Generally, GRP strategies should first be implemented downstream, well beyond the furthest extent of the spill, with deployments continuing upstream towards the spill source and in some cases slightly beyond. PSOPs are alphabetically designated.
The following tables provide the strategy implementation order for Potential Oil Spill Origin Points in the Lower Yakima River GRP: points YAK-A through YAK-M. The priority tables provided in this section were developed using a combination of variables, including: notification time, travel time for responders and equipment, average and seasonal flow rates, average winds, deployment time, proximity to the spill source, trustee input, the relative priority of the resources at risk, and other considerations. Because oil spilled in this planning area may be carried downstream and impact an adjacent GRP area, these priority tables include several strategies from the Middle Columbia River McNary Pool GRP (MCR-M-GRP). The 2-pagers for those strategies have also been included in Appendix 4A for convenience.

Source control and containment are a higher priority than GRP strategy implementation
Table 4.3: YAK-A (~RM 131.2) – Potential Oil Spill Origin Point Table

<table>
<thead>
<tr>
<th>Implementation Priority</th>
<th>Strategy Number</th>
<th>Sector Map</th>
<th>Strategy Matrix</th>
<th>Strategy Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>2</td>
<td>YAK-122.2M</td>
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<td>101</td>
<td>351</td>
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<td>4</td>
<td>YAK-128.05R</td>
<td>58</td>
<td>101</td>
<td>353</td>
</tr>
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<td>5</td>
<td>YAK-129.4R</td>
<td>58</td>
<td>102</td>
<td>355</td>
</tr>
<tr>
<td>6</td>
<td>YAK-129.8L</td>
<td>58</td>
<td>102</td>
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<td>7</td>
<td>YAK-130.6L</td>
<td>58</td>
<td>102</td>
<td>359</td>
</tr>
</tbody>
</table>
Table 4.4: YAK-B (~RM 121.8) – Potential Oil Spill Origin Point Table

<table>
<thead>
<tr>
<th>Implementation Priority</th>
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<th>Sector Map</th>
<th>Strategy Matrix</th>
<th>Strategy Details</th>
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</thead>
<tbody>
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<td>60</td>
<td>98</td>
<td>329</td>
</tr>
<tr>
<td>2</td>
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<td>59</td>
<td>98</td>
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<tr>
<td>3</td>
<td>YAK-114.3L</td>
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<td>4</td>
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<tr>
<td>5</td>
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<td>99</td>
<td>337</td>
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<td>YAK-116.8L</td>
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<td>99</td>
<td>339</td>
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<tr>
<td>7</td>
<td>YAK-117.2R</td>
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<td>100</td>
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<td>9</td>
<td>YAK-119.1R</td>
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<td>100</td>
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<td>10</td>
<td>YAK-121.3L</td>
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<td>101</td>
<td>347</td>
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</table>
Table 4.5: YAK-C (~Naches RM 10.7) – Potential Oil Spill Origin Point Table

<table>
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<th>Implementation Priority</th>
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<th>Sector Map</th>
<th>Strategy Matrix</th>
<th>Strategy Details</th>
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<td>NACH-10.0L</td>
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<td>8</td>
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Table 4.6: YAK-D (~Naches RM 3.7) – Potential Oil Spill Origin Point Table

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<th>Sector Map</th>
<th>Strategy Matrix</th>
<th>Strategy Details</th>
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<tr>
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<td>YAK-115.0L</td>
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Table 4.7: YAK-E (~RM 114.4) – Potential Oil Spill Origin Point Table

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Table 4.8: YAK-F (~RM 107.2) – Potential Oil Spill Origin Point Table

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<td>YAKWAP-106.2</td>
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<td>105</td>
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<td>YAK-107.1L</td>
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## Table 4.9: YAK-G (~RM 93.1) – Potential Oil Spill Origin Point Table

<table>
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Table 4.10: YAK-H (~RM 82.65) – Potential Oil Spill Origin Point Table

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Table 4.11: YAK-I (~RM 59.8) – Potential Oil Spill Origin Point Table

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Table 4.12: YAK-J (~RM 45.6) – Potential Oil Spill Origin Point Table

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Table 4.13: YAK-K (~RM 29.8) – Potential Oil Spill Origin Point Table

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<td>YAK-20.4L</td>
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<td>76</td>
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### Table 4.14: YAK-L (~RM 23.7) – Potential Oil Spill Origin Point Table

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Table 4.15: YAK-M (~RM 8.5) – Potential Oil Spill Origin Point Table

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<th>Strategy Details</th>
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<td>2</td>
<td>M-334.3M**</td>
<td>MCR-M-GRP</td>
<td>MCR-M-GRP</td>
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<td>M-334.5L**</td>
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<td>MCR-M-GRP</td>
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<td>YAK-8.5R</td>
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<td>72</td>
<td>167</td>
</tr>
</tbody>
</table>

** Denotes Response Strategies from an adjacent GRP Planning Area
Figure 4-7: Sector Map YAK-1

Legend:
- **Response Strategy Locations**
- **Awareness Strategy Locations**
- **Potential Oil Spill Points**

Legend:
- **Boat Launch Locations**
- **Staging Area Locations**

Sectors:
- Sector YAK-1
- Sector YAK-2
- Sector YAK-3

Notations:
- YAK-A
- YAK-B
- YAK-C
- YAK-120.6L
- YAK-129.4L
- YAK-128.05R
- NACH-9.55L
- NACH-9.55L-N
- NACH-9.2L
- NACH-10.5L
- BL-NACH-10.5L

Source:

Note:
Staging Area and Boat Launch symbols are offset to prevent overlapping.
Figure 4-8: Sector Map YAK-2

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.
Figure 4-9: Sector Map YAK-3

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.
Figure 4-10: Sector Map YAK-4

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.
Figure 4-11: Sector Map YAK-5
Figure 4-12: Sector Map YAK-6
Figure 4-13: Sector Map YAK-7
Figure 4-14: Sector Map YAK-8

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCan, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.
Figure 4-15: Sector Map YAK-9

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri Staging Area and Boat Launch symbols are offset to prevent overlapping.
Figure 4-16: Sector Map YAK-10
4.5 MATRICES

4.5.1 Naming Conventions (Short Names)
Each strategy, staging area, and boat launch location in this document has been given a unique “Short Name” which includes one to six letters denoting the associated waterbody. Following the letters are numbers that specify the location. On rivers or other linear waterbodies, the location is named by river mile: the distance from the mouth of the river or creek upstream to the site location. Some short names indicate whether the site is located on river right, river left, or mid-river by an “R”, “L” or “M” after the river mile. On lakes, the numbers indicate the location by shoreline mile, typically starting at the northernmost point and increasing clockwise around the lake. In marine areas, the numbers do not have a geographic meaning. Notification strategies are indicated by an “-N” at the end of the name. Staging Areas and Boat Launches are indicated by the prefix “SA” or “BL”.

Associated river body short name designations used within the Yakima include:

- NACH = Naches River
- SULFC-0.3 = Sulphur Creek Canal
- YAK = Yakima River
- YAKCC = Chandler Canal
- YAKMC = Marion Drain (Canal)
- YAKSC = Sunnyside Canal
- YAKTC = Taylor Canal
- YAWAP = Wapato Canal
### 4.5.2 Response Strategy Matrices

<table>
<thead>
<tr>
<th>Strategy Name</th>
<th>Location</th>
<th>Strategy Type</th>
<th>Boom Length</th>
<th>Boat Req?</th>
<th>Staging Area</th>
<th>Resources At Risk</th>
<th>Comments</th>
<th>Sector Map (Page #)</th>
<th>Strategy Details (Page#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NACH-0.1R</td>
<td>Confluence of the Naches River with the Yakima 46.63015 -120.51490</td>
<td>Collection Boom 600ft</td>
<td>Yes</td>
<td>Onsite</td>
<td>Must drive around barriers to access the Yakima Greenway Trail at 6th and Gordon, park along trail, no facilities</td>
<td>Habitat and Waterfowl, Public Recreation Site/Area, Sensitive Resources</td>
<td>Launch from BL-YAK-116.7L, Harlan Landing. Yakima River has extreme variability in seasonal flow</td>
<td>59</td>
<td>131</td>
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<tr>
<td>NACH-2.7R</td>
<td>Old Union Screen water intake 46.62720 -120.56688</td>
<td>Exclusion Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite</td>
<td>Stage on dirt/gravel drive or field, no facilities.</td>
<td>Riparian Habitat, Water Intakes</td>
<td>Go through gate, cut the chain if needed (not the locks), but notify Yakima City Water 509-575-6177. Naches River has extreme variability in seasonal flow</td>
<td>59</td>
<td>133</td>
</tr>
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<td>NACH-2.75R</td>
<td>Cowiche Creek water intake 46.62765 -120.56906</td>
<td>Exclusion Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite</td>
<td>Stage on gravel drive or field, no facilities.</td>
<td>Riparian Habitat, Water Intakes</td>
<td>Go through gate, cut the chain if needed (not the locks), but notify Yakima City Water 509-575-6177. Naches River has extreme variability in seasonal flow</td>
<td>59</td>
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<td>NACH-3.05R</td>
<td>Fruitvale Canal off Clover Lane 46.62896 -120.57393</td>
<td>Exclusion Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite</td>
<td>Stage on gravel drive or field, no facilities.</td>
<td>Economic Resource, Water Intakes</td>
<td>Go through gate, cut the chain if needed (not the locks), but notify Yakima City Water 509-575-6177. Naches River has extreme variability in seasonal flow</td>
<td>59</td>
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<td>Staging Area</td>
<td>Resources At Risk</td>
<td>Comments</td>
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<td>Strategy Details (Page#)</td>
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<td>NACH-5.95L</td>
<td>Long Lane at Dike 46.65086 -120.61757</td>
<td>Collection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Go through locked gate, room for parking in field or on the dike road which is accessible by a small vac truck</td>
<td>Riparian Habitat</td>
<td>Cut the lock on the gate to access the dike road, should be fine for a small vac truck. Naches River has extreme variability in seasonal flow</td>
<td>59</td>
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<td>Exclusion</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite Can stage on the side of the road, or if you get in the gate there is a field with room for staging</td>
<td>Water Intakes</td>
<td>Water intake is at the end of the dike road but accessible from Long Lane through a locked gate (bring bolt cutters). Naches River has extreme variability in seasonal flow. Water intake may or may not be close-able.</td>
<td>59</td>
<td>141</td>
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<td>Eschbach Park and Congdon Screens 46.68352 -120.65387</td>
<td>Exclusion</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite Cut chain (not locks) to drive to gravel/dirt field near water intake by river’s edge. Bathrooms at Eschbachs Park</td>
<td>Public Recreation Site/Area, Sensitive Resources, Water Intakes, Wildlife Refuge</td>
<td>Naches River has extreme variability in seasonal flow</td>
<td>59</td>
<td>143</td>
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<td>NACH-9.2L</td>
<td>City of Yakima Wastewater Treatment Plant Naches R 46.68691 -120.65454</td>
<td>Collection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Park in WDFW parking area, room for staging, but call City of Yakima Water to get inside fence to access dike road</td>
<td>General Fish and Wildlife Resources, Riparian Habitat</td>
<td>Naches River has extreme variability in seasonal flow</td>
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<tr>
<td>NACH-9.55L</td>
<td>Gleed Screens and Water Intake 46.69164 -120.65349</td>
<td>Collection</td>
<td>Boom 100 ft, Sorbent 100 ft</td>
<td>No</td>
<td>Onsite Gravel parking area inside fence 1155sqft</td>
<td>Fish Screens, Water Intakes</td>
<td>Bring bolt cutters for locked gates. Naches River has extreme variability in seasonal flow</td>
<td>58</td>
<td>147</td>
</tr>
<tr>
<td>NACH-9.85L</td>
<td>Yakima City Water Intake 46.69547 -120.65414</td>
<td>Collection</td>
<td>Boom 200 ft</td>
<td>No</td>
<td>Onsite Gravel parking area of 3200sqft.</td>
<td>Water Intakes</td>
<td>Naches River has extreme variability in seasonal flow</td>
<td>58</td>
<td>149</td>
</tr>
<tr>
<td>NACH-10.0L</td>
<td>Water Intake/Fish Screen City of Yakima 46.69772 -120.65592</td>
<td>Exclusion</td>
<td>Boom 100 ft, Sorbent 100 ft</td>
<td>No</td>
<td>Onsite Pull off on Hwy-12 is short and narrow (50'x10'), only room for two vehicles</td>
<td>Fish Screens, Water Intakes</td>
<td>Park at pull off along US Hwy-12, Naches River has extreme variability in seasonal flow</td>
<td>58</td>
<td>151</td>
</tr>
<tr>
<td>NACH-10.15L</td>
<td>Side Channel Inlet to City of Yakima Water Intake 46.69967 -120.65894</td>
<td>Exclusion</td>
<td>Boom 100 ft, Sorbent 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-NACH-10.5L, a WDFW 5400 sq ft gravel parking area</td>
<td>Riparian Habitat, Water Intakes</td>
<td>Naches River has extreme variability in seasonal flow. Hand launch at BL-NACH-10.5L. If unable to get back upstream, take out downstream at the City of Yakima water intake NACH-10.0L or the next water intake NACH-9.55L</td>
<td>58</td>
<td>153</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
<td>Comments</td>
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<tr>
<td>SULFC-0.3</td>
<td>Sulphur Creek Canal 46.24401 -120.02004</td>
<td>Collection Boom 200 ft, Sorbent 1ft</td>
<td>No</td>
<td>Onsite Park at Sunnyside State Wildlife Recreation Area to the southwest of the strategy location.</td>
<td>State Protected Area/Lands</td>
<td>Park at Sunnyside State Wildlife Recreation Area to the southwest of the strategy location.</td>
<td>63</td>
<td>155</td>
<td></td>
</tr>
<tr>
<td>YAK-6.2R</td>
<td>Southern end of Riverside Dr 46.27232 -119.31577</td>
<td>Exclusion Boom 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-8.75L gravel park and portable bathroom (seasonal)</td>
<td>Recreational Use Area, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-8.75L</td>
<td>67</td>
<td>163</td>
<td></td>
</tr>
<tr>
<td>YAK-7.85L</td>
<td>Van Giesen St at Jones Road 46.29433 -119.32306</td>
<td>Collection Boom 400 ft</td>
<td>Yes</td>
<td>Onsite Staging area has 3400 sq ft dirt/gravel area for parking off road</td>
<td>Recreational Use Area, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch upstream at BL-YAK-8.75L</td>
<td>67</td>
<td>165</td>
<td></td>
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<tr>
<td>YAK-8.5R</td>
<td>W Van Giesen St Bridge 46.29726 -119.33345</td>
<td>Collection Boom 300 ft</td>
<td>Yes</td>
<td>Onsite There is an access gate at end of culdesac on S 35th Ave. Parking beside bridge and along riverside, no bathrooms</td>
<td>Economic Resource, General Fish and Wildlife Resources, Riparian Habitat</td>
<td>Launch at BL-YAK-8.75L Parking and portable toilets (seasonal)</td>
<td>67</td>
<td>167</td>
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<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req</td>
<td>Staging Area</td>
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<tr>
<td>YAK-8.75L</td>
<td>Hyde Road Boat Launch 46.30059 -119.33130</td>
<td>Collection</td>
<td>Boom 600ft</td>
<td>Yes</td>
<td>Onsite Stage at SA-YAK-8.75L, gravel parking on side of road and portable bathrooms (seasonal)</td>
<td>Boat Launch/Ramp, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch onsite at BL-YAK-8.75L single gravel ramp.</td>
<td>67</td>
<td>169</td>
</tr>
<tr>
<td>YAK-10.9L</td>
<td>Horseshoe Lake - Downstream End 46.32392 -119.34289</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Remote Field, accessible by dirt road</td>
<td>General Fish and Wildlife Resources, Riparian Habitat</td>
<td>Launch at BL-YAK-8.75L, Hyde Road Boat Launch, in low flow it may be necessary to hand launch on site and reduce length of boom to 300'</td>
<td>67</td>
<td>171</td>
</tr>
<tr>
<td>YAK-11.25L</td>
<td>Horseshoe Lake - upstream end 46.32021 -119.34834</td>
<td>Collection</td>
<td>Boom 600ft</td>
<td>Yes</td>
<td>Onsite Field, accessible by dirt road</td>
<td>General Fish and Wildlife Resources, Riparian Habitat</td>
<td>Launch at BL-YAK-8.75L, Yakima River has extreme variability in seasonal flow, in low flow it may be necessary to hand launch on site and reduce length of boom to 300'</td>
<td>67</td>
<td>173</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
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<tr>
<td>YAK-11.5R</td>
<td>Shore off of N 46th Ave 46.31476 -119.34967</td>
<td>Deflection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-8.75L, if low water stage on river left near strategy location 46.314901, -119.350449</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Yakima River has extreme variability in seasonal flow. Launch at BL-YAK-8.75L, unless low water conditions and then may need to hand launch from river left near 46.314901, -119.350449 across from strategy location</td>
<td>67</td>
<td>175</td>
</tr>
<tr>
<td>YAK-13.3L</td>
<td>Left fork at Twin Bridges Road 46.32713 -119.37499</td>
<td>Deflection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-16.25L (in low water conditions you may be able to stage off N Snively Rd at Twin Bridges)</td>
<td>Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-16.25L, single lane. In low water conditions it may be possible to hand launch a boat from shore near the intersection of N Snively Road and N Twin Bridges Road in West Richland.</td>
<td>66</td>
<td>177</td>
</tr>
<tr>
<td>YAK-14.0R</td>
<td>N Yakima River Drive 46.32968 -119.38628</td>
<td>Deflection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-16.25L (in low water conditions try the empty lot near 80331 N Yakima River Dr West Richland)</td>
<td>Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-16.25L, single lane. In low water conditions you may be able to hand launch on site via the empty lot near 80331 N Yakima River Dr. West Richland, 99353</td>
<td>66</td>
<td>179</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
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<tr>
<td>YAK-14.1L</td>
<td>Backwater area upstream of Snively Rd 46.33131 -119.38795</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-16.25L (in low water conditions try the empty lot near 80331 N Yakima River Dr West Richland)</td>
<td>Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-16.25L, single lane. In low water conditions you may be able to hand launch on river right via the empty lot near 80331 N Yakima River Dr. West Richland, 99353</td>
<td>66</td>
<td>181</td>
</tr>
<tr>
<td>YAK-15.15R</td>
<td>Yakima River, River Mile 15.15 46.34472 -119.39073</td>
<td>Deflection</td>
<td>Boom 500ft</td>
<td>Yes</td>
<td>Remote SA-YAK-16.25L lots of parking, a porta-potty, and heavy seasonal use.</td>
<td>Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch on site at BL-YAK-16.25L, single lane.</td>
<td>66</td>
<td>183</td>
</tr>
<tr>
<td>YAK-16.25L</td>
<td>Snively Road WDFW BL 46.36021 -119.39733</td>
<td>Collection</td>
<td>Boom 800ft</td>
<td>Yes</td>
<td>ONSite SA-YAK-16.25L lots of parking, a porta-potty, and heavy seasonal use</td>
<td>Great Blue Heron, Recreational Use Area, Salmonid Concentrations and Habitat, Waterfowl Concentrations</td>
<td>Launch on site at BL-YAK-16.25L, single lane</td>
<td>66</td>
<td>185</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
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<tr>
<td>YAK-18.35R</td>
<td>N. Harrington Road water access site 46.37962 -119.42282</td>
<td>Collection</td>
<td>Boom 900ft</td>
<td>Yes</td>
<td>Remote Stage at the Horn Rapids Boat Launch SA-YAK-18.7L, paved parking, bathrooms, dumpster, other amenities nearby.</td>
<td>Fish Screens, Migratory Bird Populations, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at the Horn Rapids Boat Launch BL-YAK-18.7L, 2 lanes, 8 degree grade.</td>
<td>66</td>
<td>187</td>
</tr>
<tr>
<td>YAK-18.8L</td>
<td>Horn Rapids Park 46.37765 -119.43456</td>
<td>Deflection</td>
<td>Boom 500ft</td>
<td>Yes</td>
<td>Onsite Stage at the Horn Rapids Boat Launch SA-YAK-18.7L, paved parking, bathrooms, dumpster, other amenities nearby</td>
<td>County Park, Migratory Bird Populations, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at the Horn Rapids Boat Launch BL-YAK-18.7L, 2 lanes, 8 degree grade</td>
<td>66</td>
<td>189</td>
</tr>
<tr>
<td>YAK-20.4L</td>
<td>Yakima River, River Mile 20.4 46.35753 -119.44520</td>
<td>Deflection</td>
<td>Boom 500ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-18.7L Horn Rapids Park but you can drive to a parking lot on Reservation Road by the site.</td>
<td>Backwater Habitat, County Park, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-18.7L Horn Rapids Park. Concrete plank ramp with 8 degree grade, lots of paved parking with lights. Horn Rapids Park has campground with power, potable water, and additional restrooms.</td>
<td>66</td>
<td>191</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
<td>Comments</td>
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<tr>
<td><strong>YAK-22.7L</strong></td>
<td>Horns Rapid Park, Reservation Rd water access site 46.33734 -119.48056</td>
<td>Collection</td>
<td>Boom 500 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-18.7L Horn Rapids Park but you can drive to a parking lot on Reservation Road by the site</td>
<td>County Park, Downstream Habitat, General Fish and Wildlife Resources, Sensitive Resources Nearby</td>
<td>Launch at BL-YAK-18.7L Horn Rapids Park. Concrete plank ramp with 8 degree grade, lots of paved parking with lights. Horn Rapids Park has campground with power, potable water, and additional restrooms</td>
<td>66</td>
<td>193</td>
</tr>
<tr>
<td><strong>YAK-25.2R</strong></td>
<td>Intersection of Demoss Road and Ruppert Road 46.31274 -119.47257</td>
<td>Collection</td>
<td>Boom 500 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-29.6L Benton City boat launch, parking and portapotty</td>
<td>Backwater Area, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and portapotty.</td>
<td>66</td>
<td>195</td>
</tr>
<tr>
<td><strong>YAK-26.9R</strong></td>
<td>N Demoss at Songbird Island 46.29140 -119.47137</td>
<td>Deflection</td>
<td>Boom 600 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-29.6L Benton City boat launch, parking and portapotty</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and portapotty.</td>
<td>65</td>
<td>197</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
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<td>YAK-28.1L</td>
<td>Side Channel near N River Road 46.27338 -119.47863</td>
<td>Deflection Boom</td>
<td>300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-29.6L Benton City boat launch, parking and porta potty.</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.</td>
<td>65</td>
<td>199</td>
</tr>
<tr>
<td>YAK-29.15R</td>
<td>Kiona Pump Station 46.25996 -119.47228</td>
<td>Exclusion Boom</td>
<td>100ft</td>
<td>No</td>
<td>Onsite Stage onsite at pump station. Paved parking area and concrete roadway.</td>
<td>Public Health and Safety, Water Intakes</td>
<td>Contact BOR at 509-406-3031 to gain access to facility but bring bolt cutters to use if necessary.</td>
<td>65</td>
<td>201</td>
</tr>
<tr>
<td>YAK-29.55L</td>
<td>Benton City Park 46.25543 -119.47379</td>
<td>Deflection Boom</td>
<td>200ft</td>
<td>Yes</td>
<td>Onsite Stage at SA-YAK-29.6L large gravel parking lot, potable water, porta potty, and trash pick up.</td>
<td>Public Recreation Site/Area, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch onsite at BL-YAK-29.6L. Yakima River has extreme variability in seasonal flows</td>
<td>65</td>
<td>203</td>
</tr>
<tr>
<td>YAK-29.8R</td>
<td>Kiona Bridge on 1st Street 46.25257 -119.47625</td>
<td>Collection Boom</td>
<td>500ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-29.6L the Benton City boat launch, paved parking and porta potty.</td>
<td>County Park, General Fish and Wildlife Resources, Recreational Shoreline Area, Sensitive Resources Nearby</td>
<td>Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.</td>
<td>65</td>
<td>205</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
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<td>YAK-32.2L</td>
<td>Side Channel near W Old Inland Empire Hwy 46.27180 -119.51320</td>
<td>Deflection</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-29.6L the Benton City boat launch, paved parking and porta potty.</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.</td>
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<tr>
<td>YAK-32.45L</td>
<td>Benton Irrigation District 46.27500 -119.51751</td>
<td>Exclusion</td>
<td>Boom 200ft, Sorbent 200ft</td>
<td>No</td>
<td>Onsite Paved parking, water, power, and bathroom inside pump station</td>
<td>Fish Ladder(s), Pump Station, Sensitive Resources, Water Intakes</td>
<td>There is a notification strategy for the facility to close gates and shut off pumps but deploy boom regardless. Yakima River has extreme variability in seasonal flow</td>
<td></td>
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<tr>
<td>YAK-32.9L</td>
<td>Side channel near Kiona Canal 46.27660 -119.52786</td>
<td>Deflection</td>
<td>Boom 600ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-29.6L the Benton City boat launch, paved parking and porta potty.</td>
<td>Backwater Habitat, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-29.6L Benton City boat launch. Single concrete ramp, 4 degree grade, large gravel parking area, potable water, trash and porta potty.</td>
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<td><strong>Strategy Name</strong></td>
<td><strong>Location</strong></td>
<td><strong>Strategy Type</strong></td>
<td><strong>Boom Length</strong></td>
<td><strong>Boat Req?</strong></td>
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<td>YAK-35.95L</td>
<td>Just upstream of the Chandler Power Plant 46.26411 -119.59087</td>
<td>Collection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Stage onsite at SA-YAK-35.95L</td>
<td>General Fish and Wildlife Resources, Power Generation, Recreational Shoreline Area</td>
<td>Launch a small boat onsite, may need to hand launch depending on water level. Gravel road to shore with shallow angle at bank. Depending on water level a small trailer may be usable, flat sandy bottom near shore.</td>
<td>65</td>
<td>213</td>
</tr>
<tr>
<td>YAK-41.9L</td>
<td>Side channel near W 119 Pr NW 46.23073 -119.67861</td>
<td>Deflection</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-47.65R, parking, potable water, power, lights, trash pickup, bathrooms, covered spaces and 4G.</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-47.65R, double concrete ramp 8 degree grade.</td>
<td>65</td>
<td>215</td>
</tr>
<tr>
<td>YAK-42.9L</td>
<td>Side Channel near Chandler Canal 46.22423 -119.69526</td>
<td>Deflection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote SA-YAK-46.5L has no amenities. Call City of Prosser to gain access.</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-46.5L, dirt ramp, 1 lane 8 degree grade. Ok to launch small trailer in high water, sandy beach in low water conditions, may need to hand launch.</td>
<td>64</td>
<td>217</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
<td>Comments</td>
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<tr>
<td>YAK-46.2L</td>
<td>Yakama Nation Fish Hatchery 46.21378 -119.75920</td>
<td>Exclusion</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite Call Yakama Nation at 509-865-5121 to gain access to hatchery property</td>
<td>Fish Hatchery</td>
<td>Dirt gravel road access to the river through hatchery land</td>
<td>64</td>
<td>219</td>
</tr>
<tr>
<td>YAK-47.2R</td>
<td>Wine Country Road Bridge 46.20985 -119.77591</td>
<td>Deflection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-47.65R has lots of parking, potable water, power, lights, trash pickup, bathrooms, covered spaces</td>
<td>Economic Resource, Sensitive Resources</td>
<td>Launch at BL-YAK-47.65R, double concrete ramp 8 degree grade.</td>
<td>64</td>
<td>221</td>
</tr>
<tr>
<td>YAK-47.65R</td>
<td>Riverfront Park boat launch 46.20396 -119.77738</td>
<td>Collection</td>
<td>Boom 600ft</td>
<td>Yes</td>
<td>Onsite Stage at SA-YAK-47.65R, lots of parking, potable water, power, lights, trash pickup, bathrooms, covered spaces</td>
<td>City Park, Recreational Use Area, Sensitive Resources</td>
<td>Launch onsite at BL-YAK-47.65R, double concrete ramp 8 degree grade. Yakima River has extreme variability in seasonal flow</td>
<td>64</td>
<td>223</td>
</tr>
<tr>
<td>YAK-55.3M</td>
<td>Side Channel Inlet Near Euclid Bridge 46.21752 -119.92026</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.</td>
<td>Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering Waterfowl</td>
<td>Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.</td>
<td>63</td>
<td>225</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
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<tr>
<td>YAK-55.4R</td>
<td>Side Channel Near Euclid Bridge 46.21881 -119.92236</td>
<td>Deflection Boom</td>
<td>300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.</td>
<td>Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering Waterfowl</td>
<td>Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.</td>
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<tr>
<td>YAK-59.8L</td>
<td>Mabton Bridge boat launch 46.23185 -119.99995</td>
<td>Collection Boom</td>
<td>700ft</td>
<td>Yes</td>
<td>Onsite SA-YAK-59.8L, large gravel parking lot, no amenities, WDFW aquatic lands open to hunting, Discover Pass required</td>
<td>Boat Launch/Ramp, Great Blue Heron Rookeries, Recreational Fishery, Sensitive Resources, State Protected Area/Lands, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch onsite at BL-YAK-59.8L single gravel ramp 4 degree grade. Yakima River has extreme variability in seasonal flows</td>
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<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
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<tr>
<td>YAK-60.2R</td>
<td>Mabton West Lateral Drain 46.23203 -120.00823</td>
<td>Exclusion</td>
<td>Boom 100 ft, Sorbent 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.</td>
<td>Bird Habitat, Creek Habitat, Great Blue Heron Rookeries, Sensitive Resources Nearby</td>
<td>Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.</td>
<td>63</td>
<td>231</td>
</tr>
<tr>
<td>YAK-60.45R</td>
<td>Horseshoe Lake Entrance 46.23412 -120.01277</td>
<td>Exclusion</td>
<td>Boom 100 ft, Sorbent 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.</td>
<td>Backwater Habitat, Bird Habitat, Great Blue Heron Rookeries, Wintering Waterfowl</td>
<td>Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.</td>
<td>63</td>
<td>233</td>
</tr>
<tr>
<td>YAK-61.2L</td>
<td>Sunnyside Wildlife Recreation Area Canal 46.23847 -120.02422</td>
<td>Exclusion</td>
<td>Boom 100 ft, Sorbent 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-59.8L Mabton Bridge, large gravel lot, no amenities.</td>
<td>Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations</td>
<td>Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade.</td>
<td>63</td>
<td>235</td>
</tr>
<tr>
<td>YAK-63.8L</td>
<td>Horseshoe Pond Entrance 46.24770 -120.06158</td>
<td>Exclusion</td>
<td>Boom 100 ft, Sorbent 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tri</td>
<td>Backwater Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations</td>
<td>Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.</td>
<td>63</td>
<td>237</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
<td>Comments</td>
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<tr>
<td>YAK-65.2L</td>
<td>Bounds Pond Canal 46.25226 -120.07576</td>
<td>Exclusion</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tribal land</td>
<td>Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-66.8R, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.</td>
<td>63</td>
<td>239</td>
</tr>
<tr>
<td>YAK-65.7L</td>
<td>Unnamed Pond Entrance 46.25549 -120.08522</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tribal land</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-66.8 (1.1mi upstream from strategy location)</td>
<td>63</td>
<td>241</td>
</tr>
<tr>
<td>YAK-66.85R</td>
<td>Backwater near Bond Road primitive boat launch. 46.24358 -120.08304</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Onsite Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tribal land</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Sensitive Resources, Tribal Lands/Resource s, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat</td>
<td>Launch at BL-YAK-66.8R, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.</td>
<td>63</td>
<td>245</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
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<tr>
<td>YAK-66.8R</td>
<td>Bond Road primitive boat launch. 46.24287 -120.08302</td>
<td>Collection</td>
<td>Boom 600ft</td>
<td>Yes</td>
<td>Onsite Stage onsite at SA-YAK-66.8 R dirt field with no amenities, contact the Yakama Nation 360-280-6073</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat</td>
<td>Launch onsite at BL-YAK-66.8R a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.</td>
<td>63</td>
<td>243</td>
</tr>
<tr>
<td>YAK-69.0R</td>
<td>Backwater area downstream of South Drain 46.25622 -120.10403</td>
<td>Exclusion</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailer-ed small boats during high water, hand launch only with low water conditions.</td>
<td>63</td>
<td>247</td>
</tr>
<tr>
<td>YAK-69.3R</td>
<td>South Drain 46.25857 -120.10719</td>
<td>Exclusion</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939</td>
<td>Creek Habitat, Great Blue Heron Rookeries, Riparian Area, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.</td>
<td>63</td>
<td>249</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
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<tr>
<td>YAK-69.5R</td>
<td>Satus Creek 46.26137 -120.11074</td>
<td>Exclusion</td>
<td>Boom 200 ft, Sorbent 200 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939</td>
<td>Creek Habitat, Great Blue Heron Rookeries, Riparian Area, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.</td>
<td>63</td>
<td>251</td>
</tr>
<tr>
<td>YAK-70.25L</td>
<td>S. Emerald Road backwater area 46.26442 -120.10389</td>
<td>Exclusion</td>
<td>Boom 300 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-66.8R, dirt field, no amenities, contact the Yakama Nation 509-945-2939 when working on tribal land</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-66.8R Bond Road, a primitive launch which should work for trailered small boats during high water, hand launch only with low water conditions.</td>
<td>63</td>
<td>253</td>
</tr>
<tr>
<td>YAK-74.9L</td>
<td>Emerald Road backwater area 46.29699 -120.09968</td>
<td>Exclusion</td>
<td>Boom 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.</td>
<td>62</td>
<td>255</td>
</tr>
<tr>
<td>YAK-77.05R</td>
<td>Coulee Drain and backwater area 46.29641 -120.12516</td>
<td>Exclusion</td>
<td>Boom 200 ft, Sorbent 200 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities</td>
<td>Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade. Notify the Yakama Nation at 360-280-6073 when working on tribal land.</td>
<td>62</td>
<td>257</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
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<tr>
<td>YAK-77.5R</td>
<td>Satus Longhouse Road backwater area 46.30465 -120.12979</td>
<td>Exclusion</td>
<td>Boom 1ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.</td>
<td>62</td>
<td>259</td>
</tr>
<tr>
<td>YAK-78.0L</td>
<td>3073 Emerald Rd backwater area 46.31422 -120.13454</td>
<td>Deflection</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.</td>
<td>62</td>
<td>261</td>
</tr>
<tr>
<td>YAK-80.55R</td>
<td>Toppenish Creek and Chausee Rd backwater area 46.32417 -120.16843</td>
<td>Exclusion</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities</td>
<td>Backwater Habitat, Creek Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.</td>
<td>62</td>
<td>263</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
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<tr>
<td>YAK-82.8L</td>
<td>Granger Public Works boat launch 46.33539 -120.19587</td>
<td>Collection</td>
<td>Boom 500ft</td>
<td>Yes</td>
<td>Onsite SA-YAK-82.8L large gravel parking area with no facilities</td>
<td>Boat Launch/Ramp, Economic Resource, Great Blue Heron Rookeries, Recreational Fishery, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch onsite at BL-YAK-82.8L single concrete ramp at 7 degree grade.</td>
<td>62</td>
<td>265</td>
</tr>
<tr>
<td>YAK-84.1R</td>
<td>Connie Road backwater area N 46.34821 -120.21409</td>
<td>Exclusion</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.</td>
<td>62</td>
<td>267</td>
</tr>
<tr>
<td>YAK-84.6R</td>
<td>Connie Road backwater area 46.35421 -120.22398</td>
<td>Exclusion</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.</td>
<td>62</td>
<td>269</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
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<tr>
<td>YAK-85.1L</td>
<td>Backwater area near 700 Ruehl Way 46.35464 -120.21346</td>
<td>Deflection Boom</td>
<td>200 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-82.8L, large gravel parking area, no access issues (not gated), but no amenities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at YAK-82.8L Granger Public Works boat launch, Single lane concrete ramp, 7 degree grade.</td>
<td>62</td>
<td>271</td>
</tr>
<tr>
<td>YAK-87.0L</td>
<td>Side channel near 15340 Yakima Valley Hwy 46.38045 -120.22748</td>
<td>Deflection Boom</td>
<td>300 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
<td>62</td>
<td>273</td>
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<tr>
<td>YAK-87.55L</td>
<td>Drain and backwater near 14682 Yakima Valley Hwy 46.38533 -120.23615</td>
<td>Exclusion Boom</td>
<td>100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
<td>62</td>
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<tr>
<td>YAK-88.75L</td>
<td>Backwater area near 310 Railroad Ave E, Zillah 46.39199 -120.24818</td>
<td>Exclusion Boom</td>
<td>200 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
<td>61</td>
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<td>Strategy Name</td>
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<td>Staging Area</td>
<td>Resources At Risk</td>
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<td>YAK-89.9R</td>
<td>Backwater area across I-82 from Loges Park 46.39584 -120.26397</td>
<td>Exclusion</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
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<td>YAK-90.7R</td>
<td>Back channel to the SE of N Meyers Road bridge 46.39564 -120.27812</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Area, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
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<td>YAK-90.95R</td>
<td>N Meyers Bridge 46.39938 -120.28110</td>
<td>Collection</td>
<td>Boom 500ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L, across the street, N Meyers Rd boat launch has a single gravel ramp with an 8 degree grade.</td>
<td>61</td>
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<td>Strategy Name</td>
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<td>YAK-91.7L</td>
<td>Backwater Channel near Pond 7 in Zillah 46.40591 -120.28885</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
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<td>YAK-91.85R</td>
<td>Fraley Road backwater area 46.40489 -120.29222</td>
<td>Deflection</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
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<tr>
<td>YAK-92.45M</td>
<td>Mid-river channel at river mile 92.45 46.40312 -120.30537</td>
<td>Deflection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
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<td>YAK-92.6L</td>
<td>Yakima River mile 92.6 46.40416 -120.30660</td>
<td>Deflection</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-91.05L N Meyers Rd boat launch, 13,000 sq ft gravel parking lot with porta potty, WDFW access area</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
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<td>Strategy Name</td>
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<td>YAK-93.1R</td>
<td>Evergreen Hwy Bridge 46.40969 -120.31469</td>
<td>Collection</td>
<td>Boom 400ft</td>
<td>Yes</td>
<td>Onsite Narrow gravel/dirt drive with a gate at the entrance, no facilities</td>
<td>Backwater Habitat, General Fish and Wildlife Resources, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-91.05L N Meyers Rd boat launch, single dirt/gravel ramp 8 degree grade, large gravel parking lot. WDFW access area, need Discover Pass</td>
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<td>YAK-94.15R</td>
<td>Weirman Road backwater habitat 46.41406 -120.32962</td>
<td>Exclusion</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-94.5R (.35 miles upstream), parking but no facilities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-94.5R (.35 miles upstream), primitive launch on cobblestone beach, may need to hand launch in low water.</td>
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<td>Strategy Name</td>
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<tr>
<td>YAK-96.95L</td>
<td>Just upstream of Snipes/Allen Fish Screen 46.44394 -120.34883</td>
<td>Collection</td>
<td>Boom 200ft, Sorbent 200ft</td>
<td>Yes</td>
<td>Onsite dirt/gravel parking area next to Snipes/Allen Fish Screen, no bathroom or other facilities</td>
<td>Backwater Habitat, Economic Resource, Great Blue Heron Rookeries, Osprey Nest(s), Water Intakes</td>
<td>Hand launch a small boat onsite (or use waders in shallow water). Drive up on the W side of the Snipes/Allen Screen facility and continue around to strategy location. Call Bureau of Reclamation 509-406-3031 to notify work being done at their facility, and Yakama Nation 360-280-6073. Yakima River has extreme variability in seasonal flow</td>
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<tr>
<td>YAK-97.95M</td>
<td>Small backwater channel at YAK-97.95 on river left 46.44894 -120.36456</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-99.4R on Yakama Nation reservation, no amenities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-99.4R, cobblestone beach, 3 degree grade</td>
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</table>

**Sector Map (Page #):** 61

**Strategy Details (Page #):** 297
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<tr>
<th>Strategy Name</th>
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<th>Strategy Type</th>
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<th>Resources At Risk</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>YAK-98.15L</td>
<td>Yakima River mile 98.15 46.45181 -120.364442</td>
<td>Exclusion</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-99.4R on Yakama Nation reservation, no amenities</td>
<td>Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-99.4R, cobblestone beach, 3 degree grade</td>
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<tr>
<td>YAK-99.4L</td>
<td>Across the river from SA/BL-YAK-99.4R 46.45813 -120.38289</td>
<td>Deflection</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-99.4R on Yakama Nation reservation, no amenities</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-99.4R, cobblestone beach, 3 degree grade</td>
<td>61</td>
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<td>YAK-100.5R</td>
<td>Donald Wapato Bridge 46.46492 -120.40067</td>
<td>Collection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Dirt roads, lots of room for parking, no facilities</td>
<td>General Fish and Wildlife Resources, Sensitive Resources, Tribal Lands/Resources</td>
<td>Hand launch onsite. Tribal land, must drive off-road on dirt tracks to get to the water's edge.</td>
<td>61</td>
<td>305</td>
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<tr>
<td>YAK-102.1R</td>
<td>Yakima River River Mile 102.1 46.48403 -120.42055</td>
<td>Exclusion</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-103.05L Mellis Frontage Rd, bathrooms and ample parking.</td>
<td>Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-103.05L Mellis Frontage Rd. The Yakima River has extreme variability in seasonal flows</td>
<td>61</td>
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<tr>
<td>Strategy Name</td>
<td>Location</td>
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<td>YAK-102.2L</td>
<td>Mellis Frontage Road backwater habitat 46.48584 -120.42178</td>
<td>Exclusion</td>
<td>Boom 200 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-103.05L Mellis Frontage Rd, bathrooms and ample parking</td>
<td>Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-103.05L Mellis Frontage Rd. The Yakima River has extreme variability in seasonal flows</td>
<td>61</td>
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<td>YAK-103.1R</td>
<td>Renegade Raceway Backwater S 46.49098 -120.43269</td>
<td>Exclusion</td>
<td>Boom 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-103.05L Mellis Frontage Rd, parking and bathrooms</td>
<td>Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-103.05L Mellis Frontage Rd. Yakima River has extreme variability in seasonal flow</td>
<td>60</td>
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<tr>
<td>YAK-104.25R</td>
<td>Sunnyside Diversion Dam West Access Road 46.50167 -120.45161</td>
<td>Deflection</td>
<td>Boom 300 ft</td>
<td>Yes</td>
<td>Onsite Dam access road, roadside parking, no facilities</td>
<td>Backwater Habitat, Fish Ladder(s), General Fish and Wildlife Resources, Tribal Lands/Resources</td>
<td>Hand launch on site. Bring machete. Use Sunnyside Irrigation District’s west access road (call them 509-837-6980 and the Yakama Nation 509-865-5121 but bring bolt cutters incase gate is locked). Yakima River has extreme variability in seasonal flow</td>
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<td>YAK-104.6L</td>
<td>Parker Bridge 46.50620 -120.45338</td>
<td>Collection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Stage on the NE side of the Parker Bridge, no facilities</td>
<td>Sensitive Resources, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Hand launch onsite. Yakima River has extreme variability in seasonal flow</td>
<td>60</td>
<td>315</td>
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<tr>
<td>YAK-105.8R</td>
<td>Parker Bridge Rd Backwater 46.51743 -120.46498</td>
<td>Exclusion</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-106.3L below the Wapato Dam east side spillway, dirt/gravel track only</td>
<td>Backwater Habitat</td>
<td>Hand launch a small boat at BL-YAK-106.3L.</td>
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<td>YAK-106.75R</td>
<td>Just upstream of the Wapato Diversion Dam 46.52732 -120.47495</td>
<td>Collection</td>
<td>Boom 500ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-107.1L. Century Landing, parking, bathroom, trash</td>
<td>Federally Protected Area/Lands, Fish Ladder(s), Migratory Bird Populations, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat, Wintering Waterfowl</td>
<td>Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Notify Wapato Dam (509-877-3155 x3) and Yakama Nation (509-945-2939); strategy is on tribal land. Yakima River has extreme variability in seasonal flow.</td>
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<td>Strategy Name</td>
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<td>YAK-108.8L</td>
<td>Yakima River, River Mile 108.8 46.55172 -120.46773</td>
<td>Exclusion</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Remote Stage off of the Yakima City Greenway Trail</td>
<td>Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Hand launch onsite off the Yakima City Greenway Trail.</td>
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<td>YAK-110.0M</td>
<td>Yakima River, River Mile 110.0 46.56607 -120.46530</td>
<td>Deflection</td>
<td>Boom 200ft</td>
<td>Yes</td>
<td>Onsite Stage off of the Yakima City Greenway Trail.</td>
<td>Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Hand launch onsite off the Yakima City Greenway Trail.</td>
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<td>YAK-110.85R</td>
<td>South of Yakima City Wastewater Facility 46.57553 -120.46515</td>
<td>Exclusion</td>
<td>Boom 100ft</td>
<td>Yes</td>
<td>Onsite Stage off of the Yakima City Greenway Trail</td>
<td>Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Hand launch onsite off the Yakima City Greenway Trail. Yakima River has extreme variability in seasonal flow</td>
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<td>YAK-111.0R</td>
<td>Yakima Wastewater Treatment Plant 46.57790 -120.46703</td>
<td>Collection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Stage on the Yakima Greenway Trail directly behind the Yakima Wastewater Treatment facility, paved no facilities</td>
<td>Backwater Habitat, Bird Habitat, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Hand launch a small boat from shore (some areas have rip rap) off the Yakima Greenway Trail. Access the trail through the Yakima City Wastewater Treatment facility on E Viola Ave (2 gates bring bolt cutters). Yakima River has extreme variability in seasonal flow</td>
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<tr>
<td>YAK-112.95L</td>
<td>Dike Road below Terrace Heights Bridge 46.60311 -120.47068</td>
<td>Collection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Stage on Dike Road, gravel access road with no facilities</td>
<td>Backwater Habitat, Bird Habitat, City Park, Recreational Use Area, State Park, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Hand launch a small boat onsite. Access to Dike Road is through the parking lot just downstream of the Terrace Heights Bridge on river left. Bring bolt cutters to cut lock on gate. Yakima River has extreme variability in seasonal flow</td>
<td>59</td>
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<td>Strategy Name</td>
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<td>YAK-114.3L</td>
<td>Hartford Road backwater area 46.61361 -120.48591</td>
<td>Exclusion</td>
<td>Boom 100 ft, Sorbent 100 ft</td>
<td>No</td>
<td>Onsite Park at end of road and stage in grass/dirt beside side channel</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Backwater channel may be seasonal</td>
<td>59</td>
<td>333</td>
</tr>
<tr>
<td>YAK-115.0L</td>
<td>Marsh Road 46.62229 -120.49020</td>
<td>Exclusion</td>
<td>Boom 100 ft</td>
<td>No</td>
<td>Onsite Stage at the end of the spit on a dirt road adjacent to the canal off of Marsh Rd, no facilities</td>
<td>Backwater Habitat, Economic Resource</td>
<td>Gravel road conditions may vary.</td>
<td>59</td>
<td>335</td>
</tr>
<tr>
<td>YAK-116.0L</td>
<td>1201 Rest Haven Road 46.63045 -120.50848</td>
<td>Exclusion</td>
<td>Boom 100 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-116.7L, Harlan Landing</td>
<td>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-116.7L, Harlan Landing. Yakima River has extreme variability in seasonal flows</td>
<td>59</td>
<td>337</td>
</tr>
<tr>
<td>YAK-116.8L</td>
<td>N end of Harlan Landing Park 46.63257 -120.52428</td>
<td>Collection</td>
<td>Boom 400 ft</td>
<td>Yes</td>
<td>Onsite Stage onsite or at the Harlan Landing staging SA-YAK-116.7L, lots of parking and bathrooms</td>
<td>Boat Launch/Ramp, Habitat and Waterfowl, Public Recreation Site/Area</td>
<td>Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Use plywood to ease access over heavy brush at river's edge. Yakima River has extreme variability in seasonal flow.</td>
<td>59</td>
<td>339</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
<td>Comments</td>
<td>Sector Map (Page #)</td>
<td>Strategy Details (Page#)</td>
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<tr>
<td>YAK-117.2R</td>
<td>Golf Club Road Water Viewing Platform 46.63781 -120.52462</td>
<td>Collection</td>
<td>Boom 300 ft</td>
<td>Yes</td>
<td>Onsite Stage at parking area for Riverside Playland Park, restrooms, water and power available</td>
<td>City Park, Great Blue Heron Rookeries, Recreational Shoreline Area, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-116.7L, Harlan Landing Park. Yakima River has extreme variability in seasonal flows.</td>
<td>59</td>
<td>341</td>
</tr>
<tr>
<td>YAK-117.5R</td>
<td>Golf Course Road Wetlands 46.64088 -120.51956</td>
<td>Exclusion</td>
<td>Boom 200 ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-116.7L, Harlan Landing Park, paved parking, bathrooms, picnic tables and covered space</td>
<td>Backwater Habitat, Emergent Wetlands, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Launch at BL-YAK-116.7L, Harlan Landing Park, which has a single lane, with an 8 degree grade. Yakima River has extreme variability in seasonal flows.</td>
<td>59</td>
<td>343</td>
</tr>
<tr>
<td>YAK-119.1R</td>
<td>Behind Monson Fruit on Rushmore Rd 46.65641 -120.50850</td>
<td>Collection</td>
<td>Boom 400 ft</td>
<td>Yes</td>
<td>Onsite Gravel drive with room for staging, no facilities</td>
<td>Emergent Wetlands, Great Blue Heron Rookeries, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Yakima River has extreme variability in seasonal flows. In some conditions you may be able to hand launch a small boat onsite, otherwise launch at BL-YAK-116.7L (2.4 miles downstream), Harlan Landing.</td>
<td>59</td>
<td>345</td>
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<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
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<tr>
<td>YAK-121.3L</td>
<td>Harrison Road Bridge 46.67996 -120.49087</td>
<td>Collection</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Rough grave drive with room to stage several vehicles, no facilities.</td>
<td>Great Blue Heron Rookeries, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Yakima River has extreme variability in seasonal flows. In some conditions you may be able to hand launch a small boat onsite, otherwise launch at BL-YAK-116.7L, Harlan Landing.</td>
<td>59</td>
<td>347</td>
</tr>
<tr>
<td>YAK-122.15R</td>
<td>Above the Taylor Canal Head Gate 46.69119 -120.49223</td>
<td>Collection</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite Gravel parking area with room for staging several strategies, no facilities</td>
<td>Water Intakes</td>
<td>Yakima River has extreme variability in seasonal flow.</td>
<td>58</td>
<td>349</td>
</tr>
<tr>
<td>YAK-122.2M</td>
<td>Upstream of Taylor Canal headgate 46.69248 -120.49206</td>
<td>Diversion</td>
<td>Boom 300ft</td>
<td>Yes</td>
<td>Onsite Stage at Taylor Canal head gate</td>
<td>Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Hand launch onsite above the Taylor Canal headgate.</td>
<td>58</td>
<td>351</td>
</tr>
<tr>
<td>YAK-128.05R</td>
<td>Roza Diversion Dam 46.75122 -120.46678</td>
<td>Collection</td>
<td>Boom 500ft</td>
<td>Yes</td>
<td>Onsite Stage onsite at the Roza Diversion Dam, parking, bathrooms, covered spaces, power and water available</td>
<td>Canyon/ Riparian Habitat, Fish Ladder(s), Fish Pens, Public Lands/Facilities</td>
<td>Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate access/safety with USBOR (509-406-3031); stay upstream of Dam's safety cable.</td>
<td>58</td>
<td>353</td>
</tr>
<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
<td>Resources At Risk</td>
<td>Comments</td>
<td>Sector Map (Page #)</td>
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<tr>
<td>YAK-129.4R</td>
<td>Roza Recreational Area Boat Launch 46.76383 -120.45731</td>
<td>Collection Boom 300ft</td>
<td>Yes</td>
<td>Remote Stage at SA-YAK-129.4L, large paved parking area, vault toilets. BLM managed rec site.</td>
<td>Boat Launch/Ramp, Federally Protected Area/Lands, Recreational Use Area</td>
<td>Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate park access with USBLM (509-665-2100). Yakima River has extreme variability in seasonal flow.</td>
<td>58</td>
<td>355</td>
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</tr>
<tr>
<td>YAK-129.8L</td>
<td>Roza Recreation Area 46.76656 -120.45586</td>
<td>Deflection Boom 400ft</td>
<td>Yes</td>
<td>Onsite Stage at SA-YAK-129.4L Roza Rec Area has vault toilets, paved parking, user fee</td>
<td>Federally Protected Area/Lands, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate park access with USBLM (509-665-2100). Yakima River has extreme variability in seasonal flow.</td>
<td>58</td>
<td>357</td>
<td></td>
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<tr>
<td>YAK-130.6L</td>
<td>Mile Post 8 boat launch 46.77572 -120.45366</td>
<td>Collection Boom 500ft</td>
<td>Yes</td>
<td>Onsite Paved parking, boat launch, no other facilities</td>
<td>Boat Launch/Ramp, General Fish and Wildlife Resources</td>
<td>Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Yakima River has extreme variability in seasonal flows.</td>
<td>58</td>
<td>359</td>
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<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
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<td>Boat Req?</td>
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<tr>
<td>YAKCC-35.8</td>
<td>Chandler Canal boat launch above the power plant 46.26824 -119.59227</td>
<td>Collection</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite Stage on site, small gravel parking lot, no other amenities</td>
<td>General Fish and Wildlife Resources, Power Generation, Riparian Habitat</td>
<td>Parking area at Chandler Canal boat launch above Chandler Power Plant</td>
<td></td>
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<tr>
<td>YAKCC-42.35</td>
<td>West Hess Road crossing Chandler Canal 46.22840 -119.68716</td>
<td>Collection</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite Stage on the pull-off at the W Hess Road bridge crossing the Chandler Canal</td>
<td>Public Health and Safety, Public Lands/Facilities</td>
<td>Parking available on the side of W Hess Road at the bridge</td>
<td></td>
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<tr>
<td>YAKCC-45.0</td>
<td>N Bunn Road bridge over the Chandler Canal 46.22361 -119.73727</td>
<td>Collection</td>
<td>Boom 300ft, Sorbent 100ft</td>
<td>Yes</td>
<td>Onsite Room to stage along the road, bathroom available at the Yakama Nation Fish Hatchery across the street</td>
<td>Public Health and Safety, Public Lands/Facilities</td>
<td>Small boat launch into the canal located here. Gravel road with room for parking on the shoulders.</td>
<td></td>
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</tr>
<tr>
<td>YAKCC-46.15R</td>
<td>Chandler Canal Screen Facility 46.21593 -119.75958</td>
<td>Collection</td>
<td>Boom 300ft, Sorbent 100ft</td>
<td>Yes</td>
<td>Onsite Room to stage along the road, bathroom available at the Prosser Water Treatment facility across the street</td>
<td>Fish and Wildlife Resources, Public Health and Safety, Public Lands/Facilities</td>
<td>Small boat launch into the canal located here. Gravel road with room for parking on the shoulders.</td>
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<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
<td>Boat Req?</td>
<td>Staging Area</td>
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<tr>
<td>YAKMC-82.6</td>
<td>Indian Church Road bridge at Marion Drain (Canal) 46.33076 -120.19949</td>
<td>Collection</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite Stage next to the canal on the SE side of the intersection with WA 223 and Indian Church Road</td>
<td>Creek Habitat, Riparian Area, Tribal Lands/ Resources, Waterfowl and Salmonid Concentrations and Habitat</td>
<td>Call the Yakama Nation 360-280-6073 when working on tribal lands. Parking is available along the shoulder at the intersection of Indian Church and WA 223 or across the bridge to the SE on a dirt farm road off Indian Church</td>
<td>62</td>
<td>369</td>
</tr>
<tr>
<td>YAKSC-103.0</td>
<td>Burke Road bridge crossing Sunnyside Canal 46.49392 -120.42458</td>
<td>Collection</td>
<td>Boom 100ft</td>
<td>No</td>
<td>Onsite Paved road with room for parking on the gravel shoulders.</td>
<td>Public Health and Safety, Public Lands/Facilities</td>
<td>Paved road with gravel shoulders on either side of the canal.</td>
<td>60</td>
<td>371</td>
</tr>
<tr>
<td>YAKSC-103.6</td>
<td>Sunnyside Canal Fish Screen 46.49683 -120.44094</td>
<td>Collection</td>
<td>Boom 200ft, Sorbent 200ft</td>
<td>No</td>
<td>Onsite Stage onsite on either side of the facility, bring vac truck or skimmer and portable storage to canal left</td>
<td>Fish Screens, Public Health and Safety, Public Lands/Facilities</td>
<td>Contact the Sunnyside Irrigation District 509-837-6980 for gate and facility access before deploying this strategy</td>
<td>60</td>
<td>373</td>
</tr>
<tr>
<td>YAKTC-121.25</td>
<td>Tree Top Water Treatment Facility 46.67843 -120.49722</td>
<td>Collection</td>
<td>Boom 100ft, Sorbent 100ft</td>
<td>No</td>
<td>Onsite Gravel drive with room for staging, no facilities</td>
<td>Public Health and Safety, Public Lands/Facilities</td>
<td>Gated drive, call Tree Top Water Treatment Facility 509-449-3054 to gain access</td>
<td>59</td>
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<tr>
<td>Strategy Name</td>
<td>Location</td>
<td>Strategy Type</td>
<td>Boom Length</td>
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<tr>
<td>YAKWAP-104.65</td>
<td>Lateral A Road and Wapato Canal 46.50708 -120.47795</td>
<td>Collection</td>
<td>Boom 300ft, Sorbent 300ft</td>
<td>No</td>
<td>Onsite Stage onsite where the intersection of two farm roads, which provides ample room for parking</td>
<td>Public Health and Safety, Tribal Lands/Resources</td>
<td>Contact the Yakama Nation 360-280-6073 to let them know you are deploying a strategy on the Yakama Reservation</td>
<td></td>
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</tr>
<tr>
<td>YAKWAP-106.2</td>
<td>Wapato Fish Screens 46.51832 -120.47873</td>
<td>Collection</td>
<td>Boom 300ft, Sorbent 200ft</td>
<td>No</td>
<td>Onsite Gravel parking area adjacent to Wapato Fish Screen</td>
<td>Economic Resource, Fish Ladder(s)</td>
<td>Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Notify Wapato Dam (509-877-3155 x3); Notify Yakama Nation (509-945-2939); strategy is on tribal land.</td>
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</table>
### Notification Strategy Matrices

<table>
<thead>
<tr>
<th>Strategy Name</th>
<th>Location</th>
<th>Strategy Type</th>
<th>Resources at Risk</th>
<th>Implementation</th>
<th>Comments</th>
<th>Sector Map (Page #)</th>
<th>Strategy Details (Page#)</th>
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</thead>
<tbody>
<tr>
<td>NACH-3.7R-N</td>
<td>City of Yakima Water Intake 46.63145 -120.58718</td>
<td>Notification</td>
<td>Economic Resource, Fish Screens, Public Health and Safety, Public Lands/Facilities, Water Intakes</td>
<td>Notify the City of Yakima by calling 509-575-6154</td>
<td>Notify City of Yakima about spill so they can take timely action to protect the resources under their control.</td>
<td>59</td>
<td>383</td>
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<tr>
<td>NACH-9.85L-N</td>
<td>Yakima City Water Intake &amp; Water Treatment Plant 46.69527 -120.65397</td>
<td>Notification</td>
<td>Economic Resource, Public Health and Safety, Public Lands/Facilities, Water Intakes</td>
<td>Notify the City of Yakima by calling 509-575-6177</td>
<td>Notify the City of Yakima about the spill so they can take timely action to protect the resources under their control.</td>
<td>58</td>
<td>385</td>
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<tr>
<td>YAK-32.45L-N</td>
<td>Benton Irrigation District Pump Station 46.27482 -119.51683</td>
<td>Notification</td>
<td>Fisheries Habitat, Pump Station, Recreational Fishery</td>
<td>Notify the Benton Irrigation District Manager at 509-947-8908</td>
<td>Notify the Benton Irrigation District about spill so they can take timely action to protect the resources under their control.</td>
<td>65</td>
<td>387</td>
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<tr>
<td>YAK-46.1L-N</td>
<td>Yakama Indian Nation Fish Hatchery 46.21534 -119.75911</td>
<td></td>
<td></td>
<td>Notify the Yakama Indian Nation Fish Hatchery Manager at 509-945-5899, or Foreman at 509-961-9424</td>
<td>Notify the Yakama Indian Nation Fish Hatchery about spill so they can take timely action to protect the resources under</td>
<td>64</td>
<td>389</td>
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<td>Location Code</td>
<td>Description</td>
<td>Notification Details</td>
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<td>Contact</td>
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<tr>
<td>YAK-103.85L-N</td>
<td>Sunnyside Diversion Dam and Canal Head Gate</td>
<td>Economic Resource, Fish Screens, Public Health and Safety, Public Lands/Facilities, Water Intakes</td>
<td>Sunnyside Valley Irrigation District Manager</td>
<td>Notify by calling 509-837-6980</td>
<td>509-837-6980</td>
<td>Protect the resources under their control</td>
<td></td>
</tr>
<tr>
<td>YAK-114.75-N</td>
<td>US Bureau of Reclamation Yakima Field Office</td>
<td>Economic Resource, Fish Ladder(s), Fish Screens, Public Lands/Facilities, Water Intakes</td>
<td>US Bureau of Reclamation Yakima Field Office Operations Manager</td>
<td>Call at 509-406-3031</td>
<td>509-406-3031</td>
<td>Notify the US Bureau of Reclamation about the spill so they can take timely action to protect the resources under their control</td>
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</table>
### 4.5.4 Staging Area Matrices

<table>
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<tr>
<th>Staging Area Name</th>
<th>Location</th>
<th>Position</th>
<th>Nearest Address</th>
<th>Contact</th>
<th>Strategies Served</th>
<th>Comments</th>
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<tbody>
<tr>
<td>SA-NACH-10.5L</td>
<td>Naches 10.5 Hand Launch</td>
<td>46.70286 -120.66067</td>
<td>7458 US-12 Naches, WA 98937</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td>NACH-10.15L</td>
<td>Hand launch with 7500sqft of parking, no amenities</td>
<td>58</td>
<td>399</td>
</tr>
<tr>
<td>SA-YAK-16.25L</td>
<td>Snively Road Boat Launch</td>
<td>46.35995 -119.39634</td>
<td>4116 N Snively Rd West Richland, WA 99353</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td>YAK-13.3L, YAK-14.0R, YAK-14.1L, YAK-15.15R, YAK-16.25L</td>
<td>Large gravel parking lot and porta-potty at this WDFW boat launch</td>
<td>66</td>
<td>405</td>
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<tr>
<td>SA-YAK-18.7L</td>
<td>Horn Rapids Park Boat Launch</td>
<td>46.38044 -119.43220</td>
<td>115799 N WA-225 Benton City, WA 99320</td>
<td>Benton County Parks Department Manage parks 5600A West Canal Place, A101 Kennewick, WA 99336 509-783-3118</td>
<td>YAK-18.35R, YAK-18.8L, YAK-20.4L</td>
<td>Horn Rapids Park has a camping area with flush toilets, showers, power, water, trash etc. Boat ramp has paved parking with lights.</td>
<td>66</td>
<td>407</td>
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<tr>
<td>Site Code</td>
<td>Launch Name</td>
<td>Latitude</td>
<td>Longitude</td>
<td>Address</td>
<td>Contact Information</td>
<td>Features</td>
<td>Water Access Site Code</td>
<td>Parking Capacity</td>
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</tr>
<tr>
<td>SA-YAK-29.6L</td>
<td>Benton City Boat Launch</td>
<td>46.25467</td>
<td>-119.47409</td>
<td>101 Abby Ave, Benton City, WA 99320</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td>YAK-25.2R, YAK-26.9R, YAK-28.1L, YAK-29.55L, YAK-29.8R, YAK-32.2L, YAK-32.9L</td>
<td>Large gravel parking lot, with porta potty, potable water, and trash pickup.</td>
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<tr>
<td>SA-YAK-35.95L</td>
<td>Just upstream of Chandler Power Plant Hand Launch</td>
<td>46.26462</td>
<td>-119.59112</td>
<td>47400 W Old Inland Empire Hwy, Benton City, WA 99320</td>
<td>US Bureau of Reclamation Yakima Field Office, Yakima, WA 98901-2058509-406-3031</td>
<td>YAK-35.95L</td>
<td>Dirt track to clearing, room for staging, no amenities</td>
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<td>SA-YAK-46.5L</td>
<td>Prosser Wastewater Treatment Plant Boat Launch</td>
<td>46.21250</td>
<td>-119.76559</td>
<td>999 Grande Rd, Prosser, WA 99350</td>
<td>City of Prosser City Dispatch (Wastewater Treatment Facility), Prosser, WA 99350 509-786-2332</td>
<td>YAK-42.9L</td>
<td>Gravel/dirt trail to river, no amenities. Property is gated and locked after hours. Bring bolt cutters and cut chain (not locks). Call City of Prosser to let them know you are accessing the property</td>
<td>64</td>
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<tr>
<td>SA-YAK-47.65R</td>
<td>Riverfront Park Boat Launch</td>
<td>46.20414</td>
<td>-119.77707</td>
<td>904 Sheridan Ave, Prosser, WA 99350</td>
<td>City of Prosser Parks and Recreation, Prosser, WA 66350 509-786-2332</td>
<td>YAK-41.9L, YAK-47.2R, YAK-47.65R,</td>
<td>Large asphalt lot, bathrooms, potable water, trash, power, lights.</td>
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<td>SA-YAK-59.8L</td>
<td>Mabton Bridge Boat Launch</td>
<td>46.23216</td>
<td>-119.99989</td>
<td>6901 Mabton-Sunnyside Rd, Mabton, WA 98935</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td>YAK-55.3M, YAK-55.4R, YAK-59.8L, YAK-60.2R, YAK-60.45R, YAK-61.2L,</td>
<td>Large gravel parking lot, Discover Pass required, no amenities, WDFW aquatic lands open to hunting.</td>
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<td>SA-YAK-66.8R</td>
<td>Bond Road Primitive Boat Launch</td>
<td>46.24277-120.08356</td>
<td>119 Florence Road Mabton, WA 98935</td>
<td>Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939</td>
<td>YAK-63.8L, YAK-65.2L, YAK-65.7L, YAK-66.8R, YAK-69.0R, YAK-69.3R, YAK-69.5R, YAK-66.85R, YAK-70.25L,</td>
<td>Dirt parking area of 3500sqft between a field and the river, no amenities. Call Yakama Nation 509-945-2939 if accessing site.</td>
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<td>SA-YAK-82.8L</td>
<td>Granger Public Works boat launch</td>
<td>46.33544-120.19550</td>
<td>500 East A Street Granger, WA 98932</td>
<td>City of Granger Public Works Granger, WA 98932509-854-2770</td>
<td>YAK-74.9L, YAK-77.05R, YAK-77.5R, YAK-78.0L, YAK-80.55R, YAK-84.1R, YAK-84.6R,</td>
<td>Large gravel parking area, no access issues (not gated), but no amenities</td>
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<td>SA-YAK-91.05L</td>
<td>N Meyers Rd boat launch</td>
<td>46.40075-120.28093</td>
<td>3000 N Meyers Rd Toppenish, WA 98948</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td>YAK-87.0L, YAK-87.55L, YAK-88.75L, YAK-89.9R, YAK-90.7R, YAK-90.95R, YAK-91.7L, YAK-91.85R, YAK-92.45M, YAK-92.6L,</td>
<td>13,000 sq ft gravel parking lot with porta potty, WDFW access area, need Discover Pass (may be closed to the public in 2017 due to bridge construction but should still be accessible to responders in an emergency)</td>
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<td>SA-YAK-94.5R</td>
<td>Wierman Rd Boat Launch</td>
<td>46.41916-120.33336</td>
<td>1402 Wierman Rd Toppenish, WA 98948</td>
<td>Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939</td>
<td>YAK-94.15R</td>
<td>On Tribal Land - Dirt road to gravel beach, room for parking but no facilities. Call Yakama Nation for access 360-280-6073</td>
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<td>SA-YAK-99.4R</td>
<td>E Wapato Road Primitive Boat Launch</td>
<td>46.45813-120.38441</td>
<td>1561 E Wapato Rd, Wapato, WA 98951</td>
<td>Yakama Nation Environmental Management Program Toppenish, WA 98948 509-945-2939</td>
<td>YAK-97.95M YAK-98.15L, YAK-99.4L, YAK-97.95M</td>
<td>Cobblestone beach off dirt/gravel road on Yakama Reservation, call them at 360-280-6073 if accessing site</td>
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<td>SA-YAK-103.05L</td>
<td>Mellis Frontage Rd boat launch</td>
<td>46.49085-120.43090</td>
<td>300 Mellis Rd, Wapato, WA 98951</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td>YAK-102.1R, YAK-102.2L, YAK-103.1R</td>
<td>30,000sqft gravel parking area with porta potty, WDFW water access site requires Discover Pass</td>
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<td>SA-YAK-106.3L</td>
<td>Downstream of the Wapato East Spillway</td>
<td>46.52258-120.47163</td>
<td>1811 Thorp Rd, Wapato, WA 98951</td>
<td>Wapato Irrigation District (Bureau of Indian Affairs)Emergency contact 509-877-3155 x3 Yakama Nation Environmental Management Program 509-945-2939</td>
<td>YAK-105.8R</td>
<td>Dirt/gravel track, limited parking not facilities</td>
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<td>SA-YAK-107.1L</td>
<td>Century Landing Boat Launch</td>
<td>46.53069-120.47028</td>
<td>82 Thorp Rd, Wapato, WA 98951</td>
<td>Yakima Greenway Foundation Manages the Yakima Greenway and two boat launches Yakima, WA 98901 509-453-8280</td>
<td>YAK-106.75R</td>
<td>7,500sqft of paved parking with a vault toilet and trash pick up</td>
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<td>Longitude</td>
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<tr>
<td>SA-YAK-116.7L</td>
<td>Harlan Landing Park</td>
<td>46.63158</td>
<td>-120.52175</td>
<td>41 Rovetto Road Yakima, WA 98901</td>
<td>Yakima Greenway Foundation Manage the Yakima Greenway and two boat launches Yakima, WA 98901 509-453-8280</td>
<td>Paved parking, bathrooms, picnic tables, trash</td>
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<td>435</td>
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<tr>
<td>SA-YAK-129.4L</td>
<td>Roza Recreational Boat Launch</td>
<td>46.76393</td>
<td>-120.45662</td>
<td>8681 Canyon Road Yakima, WA 98901</td>
<td>Bureau of Land Management Wenatchee Office Wenatchee, WA 98801 509-665-2100</td>
<td>Paved double ramp with ample parking, vault toilets, fees, has heavy recreational use. Contact BLM 509-665-2100 if using boat launch</td>
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<td>SA-YAK-130.6L</td>
<td>Mile Post 8 boat launch</td>
<td>46.77569</td>
<td>-120.45272</td>
<td>70 Roza View Dr Yakima, WA 98901</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td>Parking area, bathrooms, no other facilities</td>
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### 4.5.5 Boat Launch Matrices

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<th>Comments</th>
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<td>BL-NACH-10.5L</td>
<td>Naches 10.5 Hand Launch</td>
<td>46.70286,-120.66067</td>
<td>7458 US-12 Naches, WA 98937</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td>NACH-10.15L</td>
<td>Hand launch only. There is 7500sqft of parking, no amenities</td>
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<td>BL-YAK-18.7L</td>
<td>Horn Rapids Park Boat Launch</td>
<td>46.38044,-119.43220</td>
<td>115799 N WA-225 Benton City, WA 99320</td>
<td>Benton County Parks Department Manage parks 5600A West Canal Place, A101 Kennewick, WA 99336 509-783-3118</td>
<td>YAK-18.35R, YAK-18.8L, YAK-20.4L</td>
<td>Concrete plank ramp with 8 degree grade, lots of paved parking with lights. Horn Rapids Park has campground with power, potable water, and additional restrooms</td>
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<table>
<thead>
<tr>
<th>Sector Map (Page #)</th>
<th>Strategy Details (Page #)</th>
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<td>BL-YAK-29.6L</td>
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<tr>
<td>BL-YAK-46.5L</td>
<td>Prosser Wastewater Treatment Plant Boat Launch</td>
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<td>Riverfront Park Boat Launch</td>
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<td>Mabton Bridge Boat Launch</td>
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<td>Bond Road Primitive Boat Launch</td>
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<td>BL-YAK-82.8L</td>
<td>Granger Public Works boat launch</td>
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<tr>
<td>BL-YAK-91.05L</td>
<td>N Meyers Rd boat launch</td>
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<td>Code</td>
<td>Name</td>
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<td>BL-YAK-94.5R</td>
<td>Wierman Rd Boat Launch</td>
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<td>BL-YAK-99.4R</td>
<td>E Wapato Road Primitive Boat Launch</td>
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<tr>
<td>BL-YAK-103.05L</td>
<td>Mellis Frontage Rd boat launch</td>
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<tr>
<td>BL-YAK-106.3L</td>
<td>Downstream of the Wapato East Spillway</td>
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**CHAPTER 4**

116
<table>
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<tr>
<th>BL-YAK-107.1L</th>
<th>Century Landing Boat Launch</th>
<th>46.53069 -120.47028</th>
<th>82 Thorp Rd Wapato, WA 98951</th>
<th>Yakima Greenway Foundation Manages the Yakima Greenway and two boat launches Yakima, WA 98901 509-453-8280</th>
<th>YAK-106.75R</th>
<th>Single concrete plank ramp with a 8.5 degree grade. This boat launch is easily accessible</th>
<th>60</th>
<th>481</th>
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<tr>
<td>BL-YAK-116.7L</td>
<td>Harlan Landing Park</td>
<td>46.63158 -120.52175</td>
<td>41 Rovetto Road Yakima, WA 98901</td>
<td>Yakima Greenway Foundation Manages the Yakima Greenway and two boat launches Yakima, WA 98901 509-453-8280</td>
<td>NACH-0.1R YAK-114.3L YAK-116.0L YAK-116.8L YAK-117.2R YAK-117.5R YAK-119.1R</td>
<td>Single lane, 8 degree grade. Easy access, park may be busy seasonally</td>
<td>59</td>
<td>483</td>
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<tr>
<td>BL-YAK-129.4L</td>
<td>Roza Recreational Boat Launch</td>
<td>46.76393 -120.45662</td>
<td>8681 Canyon Road Yakima, WA 98901</td>
<td>Bureau of Land Management Wenatchee Office Wenatchee, WA 98801 509-665-2100</td>
<td>YAK-128.05R YAK-129.8L</td>
<td>Paved double ramp with ample parking, vault toilets, fee use area</td>
<td>58</td>
<td>485</td>
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<td>BL-YAK-130.6L</td>
<td>Mile Post 8 boat launch</td>
<td>46.77569 -120.45272</td>
<td>70 Roza View Dr Yakima, WA 98901</td>
<td>WDFW Region 3 South Central Management agency for water access site Yakima, WA 98902 509-575-2740</td>
<td></td>
<td>Gravel single lane ramp, 8 degree grade</td>
<td>58</td>
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APPENDIX 4A
Response Strategy 2-Pagers
### RESPONSE STRATEGIES LIST

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<tr>
<th>M-334.0R **</th>
<th>M-334.3M **</th>
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**Strategies from the Middle Columbia River McNary Pool GRP that are included in this appendix**
### RESPONSE STRATEGIES LIST (continued)

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<th>YAK-70.25L</th>
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**Strategies from the Middle Columbia River McNary Pool GRP that are included in this appendix**
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Columbia Park West Marina M-334.0R


Strategy Objective: Exclusion: Keep oil from entering marina; keep boat launch and gas pumps open

Implementation: Anchor 800' of boom to shoreline at the SE corner of Bateman Island and run it SE to anchor offshore. Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day. Keep boat launch & gas pumps accessible.

Staging Area: Onsite: Stage on site at SA-M-334R/Columbia Park Marina

Site Safety: Water hazard, fuel pumps, slips, trips & falls

Field Notes: Launch on site at BL-M-334R/Columbia Park Marina

Watercourse: River - Above a Dam - McNary Pool

Resources at Risk: Boat Basin/Marina, Recreational Boating, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

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<th>Item</th>
<th>Quantity</th>
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<tbody>
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<td>Anchor - Danforth (or other appropriate type)</td>
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<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>800 Feet Boom - B2 (Contractor Boom) or equivalent</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

Recommended Personnel

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
</tr>
<tr>
<td>3</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
Columbia Park West Marina

M-334R Photo: View of Columbia Park boat launch, fuel pumps, and location of Bateman Island where 2nd boom is to be anchored

**Site Contact**

City of Richland Parks and Recreation Department  
Primary Contact: Manages this boat launch  
Richland, WA 99352  
509-942-7529

**Nearest Address**

1776 Columbia Park Trail  
Richland, WA 99352

**Driving Directions**

1. Head south on US-395 S  
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton  
Continue to follow I-182 W (2.4 mi)  
3. Take exit 12A for US-395 S toward Kennewick Pendleton (0.7 mi)  
4. Continue onto US-395 S (1.8 mi)  
5. Keep right to continue on WA-240 W, follow signs for Washington 240 W/Richland (4.2 mi)  
6. Take the Columbia Center Blvd exit (0.2 mi)  
7. Turn right on N Columbia Center Blvd (0.3 mi)
Bateman Island Creek


Strategy Objective: Exclusion: Keep oil out of creek on Bateman Island

Implementation: Anchor 200' of boom on either side of the creek mouth in a chevron formation to keep oil out. Stay as far off the shoreline & as close to the water as possible while still achieving objective. Adjust angle of boom, placement & number of anchors according to conditions of the day.

Staging Area: Remote: Stage at SA-M-334R/Columbia Park Marina

Site Safety: Water hazards, slips, trips, & falls

Field Notes: Use BL-M-334R/Columbia Park Marina

Watercourse: River - Above a Dam - McNary Pool

Resources at Risk: Brooding Area, Public Recreation Site/Area, Salmonid Concentrations and Habitat, Sensitive Shoreline, Waterfowl and Shorebird

Recommended Equipment

- 1 Each Anchor - Danforth (or other appropriate type)
- 2 Each Anchoring Post(s) - (shoreside)
- 500 Feet Boom - B2 (Contractor Boom) or equivalent
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Bateman Island Creek

M-334.3M Photo: Aerial view of Bateman Island creeks

Site Contact
City of Richland Parks and Recreation Department
Primary Contact: Manages this boat launch
Richland, WA 99352
509-942-7529

Nearest Address
1776 Columbia Park Trail
Richland, WA 99352

Driving Directions
1. Head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton
   Continue to follow I-182 W (2.4 mi)
3. Take exit 12A for US-395 S toward Kennewick Pendleton (0.7 mi)
4. Continue onto US-395 S (1.8 mi)
5. Keep right to continue on WA-240 W, follow signs for Washington240 W/Richland (4.2 mi)
6. Take the Columbia Center Blvd exit (0.2 mi)
7. Turn right on N Columbia Center Blvd (0.3 mi)
Chiawana Park Pier

46° 14’ 52.5”, -119° 13’ 1.2”  
46.24791, -119.21701  
Pasco

Strategy Objective: Collection : Keep oil off park shoreline

Implementation: Anchor 800' of boom to the downstream base of the pier and run it out to the SSE to deflect uncaptured oil away from park shoreline. Existing flag poles on either side of the pier may work as anchor posts. Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day.

Staging Area: Onsite: You can stage at large paved parking area adjacent to the pier (may need bolt cutters if gate is locked)

Site Safety: Water hazard, slips, trips & falls

Field Notes: Launch boat at BL-M-333.9L/Chiawana Park

Watercourse: River - Above a Dam - McNary Pool

Resources at Risk: City Park, Downstream Resources, Recreational Shoreline Area, Waterfowl and Shorebird Concentrations

Recommended Equipment

- 8 Each Anchor - Danforth (or other appropriate type)
- 2 Each Anchoring System(s)- Shoreside
- 1600 Feet Boom - B2 (Contractor Boom) or equivalent
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 4 Laborer
- 1 Supervisor
Chiawana Park Pier

M-334.5L Photo: View of Chiawana pier and upstream

<table>
<thead>
<tr>
<th>Site Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Pasco Recreation Service</td>
</tr>
<tr>
<td>Primary Contact: Pasco, WA 99301 509-545-3456</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Chiawana Park Rd Pasco, WA 99301</td>
</tr>
</tbody>
</table>

Driving Directions
1. Start at US-395, Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.52 miles)
3. Take ramp on the right and go on I-182 W/US-395 S toward Richland/Pendleton (4.89 miles)
4. At exit 9 take ramp on the right to Road 68 (0.48 miles)
5. Turn left on N Road 68 (0.78 miles)
6. Turn right on Argent Rd (1.52 miles)
7. Turn left on N Road 92 (0.69 miles)
8. Turn right on Chiwana Park Rd (0.2 miles)
9. Finish at parking lot for pier on the right
### N tip of Bateman Island

**Position - Location:** 46° 15.083', -119° 13.856'  
46° 15' 5.0", -119° 13' 51.4"  
46.25139, -119.23093  
Richland

**Strategy Objective:** Collection: Keep oil off the E shore of Bateman Island

**Implementation:** Anchor 1000’ of boom on cobblestone shore at the N tip of the island, tow boom to the SE and anchor to divert oil away from shore. Adjust angle of boom, placement and quantity of anchors, based on conditions of the day.

**Staging Area:** Onsite: Stage at SA-YAK-0.5R/Wye Park. You CAN drive to site (two locked gates & need 4-wheel drive)

**Site Safety:** Slips, trips, falls, water hazard

**Field Notes:** Launch at BL-YAK-0.5R/Wye Park

**Watercourse:** River - Above a Dam - McNary Pool, confluence with the Yakima River

**Resources at Risk:** City Park, Critical Waterfowl, Shorebird Nesting, and Brooding Area, Downstream Resources, Fish and Wildlife Resources, General Fish and Wildlife Resources, Salmonid Concentrations and Habitat, Sensitive Resources Nearby

### Recommended Equipment

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<td>Anchor - Danforth</td>
<td>5 Each</td>
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<td>Anchoring System(s)</td>
<td>1 Each</td>
<td>Shoreside</td>
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<tr>
<td>Boom</td>
<td>1000 Feet</td>
<td>B2 (Contractor Boom) or equivalent</td>
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<tr>
<td>Workboat(s)</td>
<td>1 Each</td>
<td>- of adequate size for type and amount of boom</td>
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</table>

### Recommended Personnel

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<td>Boat Operator</td>
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<td>Laborer</td>
<td>4</td>
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<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
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</table>
N tip of Bateman Island

M-335M Photo: View towards the west from strategy shoreside anchor point.

Site Contact

City of Richland Parks and Recreation Department
Land/Property Contact: Manages this boat launch
Richland, WA 99352
509-942-7529

Nearest Address

1600 Columbia Park Trail
Richland, WA 99352

Driving Directions

1. Using a 4-wheel drive vehicle, head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton
Continue to follow I-182 W (2.4 mi)
3. Take exit 12A for US-395 S toward Kennewick Pendleton (0.7 mi)
4. Continue onto US-395 S (1.8 mi)
5. Keep right to continue on WA-240 W, follow signs for Washington 240 W/Richland (4.2 mi)
6. Take the Columbia Center Boulevard exit (0.2 mi)
7. Turn right onto N Columbia Center Blvd (0.3 mi)
8. Turn left onto Columbia Park Trail (0.1 mi)
9. Turn right into parking area on the right across from Dakota Ave and drive through lot, across paved walkway,
to a gate at the entrance to the causeway (bring bolt cutters if City Park staff are unavailable).
10. Follow the main gravel drive, staying to the left, to your destination (1 mi)
11. Finish at (Lat) N 46.250597, (Long) W -119.230919
Confluence of the Naches River and Yakima River

**Position - Location:**

- Naches River: 46° 37.809', -120° 30.894'
- Yakima River: 46° 37' 48.5", -120° 30' 53.6"
- Yakima: 46.63015, -120.51490

**Strategy Objective:**

Collection: Collect oil moving downstream on the Naches River

**Implementation:**

Using workboat, secure end of 600 ft of boom to shore on river left upstream of the bridges, at/near Point A (46.629493, -120.516846). Extend boom to river right, securing it to the bank near the Greenway Trail, at/near Point B (46.630056, -120.514591). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at/near Point B.

**Staging Area:**

Onsite: Must drive around barriers to access the Yakima Greenway Trail at 6th and Gordon.

**Site Safety:**

Water Hazard; Pedestrian Traffic on Yakima Greenway Trail; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**

Launch at BL-YAK-116.7L, Harlan Landing Park. Notify the Yakima Greenway Foundation at 509-453-8280 that you are access the trail. Yakima River has extreme variability in seasonal flow.

**Watercourse:**

River - Below a Dam - Naches River, 3.6 miles downstream of the Nelson Diversion Dam

**Resources at Risk:**

Bald Eagle, Habitat and Waterfowl, Public Recreation Site/Area, Sensitive Resources

**Recommended Equipment**

- 7 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 600 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Confluence of the Naches River and Yakima River

NACH-0.1R Photo: View of anchor point B near the Yakima Greenway Trail

**Site Contact**

**Yakima Greenway Foundation**
Land/Property Contact : Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

**Nearest Address**

1820 N 6th Ave
Yakima, WA 98902

**Driving Directions**

1. Head west from West Richland on I-82 W (64.69 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep left on N 1st St (0.71 miles)
4. Turn right on N 1st St (Yakima River Cyn) (0.25 miles)
5. Turn right on Tamarack St (0.13 miles)
6. Turn right on Gordon Rd (0.47 miles)
7. Stop at the intersection of Gordon and N 6th Ave (0.07 miles), drive around the barriers to access the Yakima Greenway Trail headed toward the river
8. Take a right on the trail at the Y intersection, stay left at the next fork and finish at the strategy location on the left (0.4 miles)
**Old Union Screen water intake**

| Position - Location: | 46° 37.632', -120° 34.013' | 46° 37.9', -120° 34'.8'' | 46.62720, -120.56688 | Yakima |

**Strategy Objective:** Keep oil out of the Old Union Screen water intake on river right.

**Implementation:** Secure end of 100 ft of boom to bank on river right upstream of canal entrance at/near Point A (46.627245, -120.567038). Using line, extend boom downstream, across canal, securing it to bank at/near Point B (46.627178, -120.566745). Extend remaining boom back and forth across canal, inside of Points A & B. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

**Staging Area:** Onsite: Stage on dirt/gravel drive or field

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Notify Yakima City Water 509-575-6177 if deploying this strategy. Go through gate, cut the chain if needed (not the locks). Naches River has extreme variability in seasonal flow

**Watercourse:** River - Below a Dam - Naches River, 1.0 miles downstream of Nelson Dam

**Resources at Risk:** Bald Eagle, Riparian Habitat, Water Intakes

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>4 Each</td>
<td></td>
</tr>
<tr>
<td>Bolt Cutters</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Boom - Sorbent</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Position</th>
<th>2 Laborer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 Supervisor</td>
</tr>
</tbody>
</table>
Old Union Screen water intake

NACH-2.7R Photo: View of the mouth of the canal that feeds into Old Union Screen water intake.

### Site Contact

**City of Yakima Water Department**  
Primary Contact: City Water Intakes & Treatment Plant  
Yakima, WA 98908  
509-575-6177

### Nearest Address

3922 Fruitvale Blvd  
Yakima, WA 98908

### Driving Directions

1. Head west from West Richland on I-82 W / US-12 W toward Prosser / Yakima (70.97 miles)  
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)  
3. At fork keep right on US-12 W toward Naches / White Pass (2.41 miles)  
4. Take ramp on the right to N. 40th Ave. / Fruitvale Blvd. (0.58 miles)  
5. Turn right on Fruitvale Blvd (0.2 miles)  
6. Turn right as soon as you pass Hwy 12 and follow the unnamed road through the gates, and over two bridges along the canal, take a right when you reach the river and then the first left to the site (0.55 miles)
**Cowiche Creek water intake**

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 37.659', -120° 34.144'</th>
<th>46° 37.395', -120° 34.8.6'</th>
<th>46.62765, -120.56906</th>
<th>Yakima</th>
</tr>
</thead>
</table>

**Strategy Objective:** Exclusion: Keep oil from Cowiche Creek out of Yakima River (and water intake) on river right

**Implementation:**
Secure end of 100 ft of boom to downstream side of water intake structure at/near Point A (46.627667, -120.569). Using line, extend boom across to other side of intake structure and secure at/near Point B (46.627758, -120.569232). Extend remaining boom ~20ft across Cowiche Creek using line and secure at/near Point C (46.627758, -120.569232) with an anchor. Back hard boom with sorbent boom in the same manner. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle as needed, based on stream flow and environmental conditions.

**Staging Area:** Onsite: Stage on gravel drive or field

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Coordinate with Yakima Water Department before implementation; call 509-575-6177. Go through gate, cut the chain if needed (not the locks). Naches River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Naches River, 0.95 miles downstream of Nelson Dam

**Resources at Risk:** Bald Eagle, Riparian Habitat, Water Intakes

### Recommended Equipment

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 3 Each Anchoring System(s) - Shoreside
- 1 Each Bolt Cutters
- 100 Feet Boom - B3 (Contractor Boom) or equivalent
- 100 Feet Boom - Sorbent
- 2 Each Heaving Line(s)
- 1 Each Machete(s) - (or other vegetation cutting tool)

### Recommended Personnel

- 2 Laborer
- 1 Supervisor
Cowiche Creek water intake

NACH-2.75R Photo: View of Cowiche Creek water intake taken from just downstream

Site Contact

City of Yakima Water Department
Primary Contact: City Water Intakes & Treatment Plant

Yakima, WA 98908
509-575-6177

Nearest Address

3922 Fruitvale Blvd
Yakima, WA 98908

Driving Directions

1. Head west from West Richland on I-82 W / US-12 W toward Prosser / Yakima (70.97 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (2.41 miles)
4. Take ramp on the right to N. 40th Ave. / Fruitvale Blvd. (0.58 miles)
5. Turn right on Fruitvale Blvd (0.2 miles)
6. Turn right as soon as you pass Hwy 12 and follow the unnamed road through the gates, and over two bridges along the canal to the site (0.45 miles) on the left by the river
**Fruitvale Canal off Clover Lane**

**Position - Location:** 46° 37.738', -120° 34.436'  
46° 37' 44.3", -120° 34' 26.1"  
46.62896, -120.57393  
Yakima

**Strategy Objective:** Keep oil away from the Fruitvale Canal water intake on river right.

**Implementation:** Secure end of 100 ft of boom to bank on river left on the upstream side of the canal at/near Point A (46.628974, -120.57369). Using line, extend boom downstream, across canal, securing it to canal right at/near Point B (46.628849, -120.573611). Extend remaining boom back and forth across canal, inside of Points A & B. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

**Staging Area:** Onsite: Stage on gravel drive or field

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Notify Yakima City Water at 509-575-6177 if deploying strategy. Go through gate, cut the chain if needed (not the locks). Naches River has extreme variability in seasonal flows.

**Watercourse:** River - Below a Dam - Naches River, 0.65 miles downstream of Nelson Dam

**Resources at Risk:** Bald Eagle, Economic Resource, Water Intakes

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
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</thead>
<tbody>
<tr>
<td>4 Each</td>
<td>Anchoring System(s)- Shoreside</td>
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<tr>
<td>1 Each</td>
<td>Bolt Cutters</td>
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<tr>
<td>100 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>100 Feet</td>
<td>Boom - Sorbent</td>
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<tr>
<td>2 Each</td>
<td>Heaving Line(s)</td>
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<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Role</th>
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<tbody>
<tr>
<td>2</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
**Fruitvale Canal off Clover Lane**

NACH-3.05R Photo: View looking into the side channel on river right on the Naches River, at site located off Clover Lane

**Site Contact**

**City of Yakima Water Department**  
Land/Property Contact: City Water Intakes & Treatment Plant  
509-575-6177

**City of Yakima Irrigation**  
Emergency Contact: Responsible for Water Intakes  
509-575-6154

**Nearest Address**

5303 Clover Lane  
Yakima, WA 98908

**Driving Directions**

1. Head west from West Pasco on I-182 E (US-12 E) (1.29 miles)
2. At exit 12AB take ramp on the right to N 20th Ave / US-395 S toward Columbia Basin College / Kennewick / Pendleton (0.19 miles)
3. At exit 12B keep left on N 20th Ave toward Columbia Basin College (0.46 miles)
4. At exit 12B keep right on N 20th Ave toward Columbia Basin College (0.23 miles)
5. Turn left on N 20th Ave (0.12 miles)
6. Turn left onto ramp and go on I-182 W toward Richland (12.3 miles)
7. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (70.97 miles)
8. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
9. At fork keep right on US-12 W toward Naches / White Pass (3.95 miles)
10. Make sharp right on Clover Ln (0.18 miles), go through the gate (cut the city lock if needed) and bear left (0.3 miles) until you cross the canal then park on the left.
11. Finish at 5303 Clover Lane, 98908, on the left
Long Lane at Dike

**Position - Location:**
- 46° 39.052', -120° 37.054'
- 46° 39' 3.1", -120° 37' 3.3"
- 46.65086, -120.61757

**Strategic Objective:**
- Collection: Collect oil moving downstream on the Naches River

**Implementation:**
- Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point B (46.651218, -120.618623). Extend boom downstream and across to river left, securing it to bank at/near Point A (46.650919, -120.617518); use hand or power winch to tighten. Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. Small vac-truck or skimmer/storage collection at Point A.

**Staging Area:**
- Onsite: Go through locked gate, room for parking in field or on the dike road which is accessible by a small vac truck

**Site Safety:**
- Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
- Call BOR 509-406-3031 about accessing the dike road. Cut the lock on the gate to access the dike road, should be fine for a small vac truck. Naches River has extreme variability in seasonal flow

**Watercourse:**
- River - Above a Dam - Naches River, 2.25 miles upstream of the Nelson Diversion Dam

**Resources at Risk:**
- Bald Eagle, Riparian Habitat

**Recommended Equipment**
- 3 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 1 Each Bolt Cutters
- 300 Feet Boom - B3 (River Boom) or equivalent
- 400 Feet Line - 3/8" poly line
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Winch - Come-A-Long
- 1 Each Workboat(s) - (hand-launch)

**Recommended Personnel**
- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Long Lane at Dike

NACH-5.95L Photo: View upstream from the dike road next to Long Lane

**Site Contact**

**US Bureau of Reclamation**  
Primary Contact: Yakima Field Office Manager  
Yakima, WA 98901-2058  
509-406-3031

**Nearest Address**

60 Long Lane  
Yakima, WA 98908

**Driving Directions**

1. Head west from West Richland on WA-224 (W Van Giesen St) toward S 39th Ave (8.38 miles)  
2. Turn left at 1st St to stay on WA-224 (1st St) (0.03 miles)  
3. Turn right onto ramp and go on I-82 W (64.69 miles)  
4. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)  
5. At fork keep right on US-12 W toward Naches / White Pass (6.29 miles)  
6. Turn left on McCormick Rd (0.28 miles)  
7. Make sharp right on Long Ln (0.07 miles)  
8. Finish at 60 Long Lane, 98908, there will be a gate on the left where the road curves. Cut the lock to open then gate and drive through to the dike road.
Long Lane Water Intake

Position - Location: 46° 39.149', -120° 37.258'  46° 39' 9.0", -120° 37' 15.5"  46.65249, -120.62096  Yakima

Strategy Objective: Exclusion : Keep oil out of water intake on river left

Implementation: Secure end of 100 ft of boom to bank on river left immediately upstream of canal entrance at/near Point A (46.652513, -120.620803). Using line, extend boom across canal to opposite side, securing it at/near Point B. Extend remaining boom back and forth across canal, inside of Points A & B. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of shoreside anchors as needed, based on stream flow and environmental conditions.

Staging Area: Onsite : Can stage on the side of the road, or if you get in the gate there is a field with room for staging

Site Safety: Water Hazard; Heavy Vegetation; Slips, Trips, Falls

Field Notes: Contact US Bureau of Reclamation at 509-406-3031 for access. Water intake is at the end of the dike road but accessible from Long Lane through a locked gate. Naches River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Naches River, 2.35 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Water Intakes

Recommended Equipment

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<tr>
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<td>Bolt Cutters</td>
<td>1 Each</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
</tr>
<tr>
<td>Boom - Sorbent</td>
<td>100 Feet</td>
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<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
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Recommended Personnel

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<tr>
<th>Role</th>
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<tr>
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<td>Supervisor</td>
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</table>
Long Lane Water Intake

NACH-6.05L Photo: View of the water intake off Long Lane

Site Contact

US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

60 Long Lane
Yakima, WA 98908

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (6.29 miles)
4. Turn left on McCormick Rd (0.28 miles)
5. Make sharp right onto Long Ln (0.07 miles)
6. Finish .25 miles past 60 Long Lane, 98908, on the left, there is a gate located just as the road makes a 90 degree turn to the right
Eschbach Park and Congdon Screens  

Position - Location: 46° 41.011', -120° 39.232'  

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Staging Area: Onsite: Cut chain (not locks) to drive to gravel/dirt field near water intake by river's edge. Bathrooms at Eschbachs Park

Implementation: Secure end of 100 ft of boom to bank on river right, upstream of entrance to channel that leads to Congdon water intakes and Eschbach Park, at/near Point A (46.68322, -120.654017). Extend boom downstream, across to opposite side of channel, securing it at/near Point B (46.68327, -120.653814). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of shoreside anchoring systems as needed, based on stream flow and environmental conditions.

Staging Area: Onsite: Cut chain (not locks) to drive to gravel/dirt field near water intake by river's edge. Bathrooms at Eschbachs Park

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Coordinate with US Bureau of Reclamation before accessing property; call 509-406-3031. Naches River has extreme variability in seasonal flow

Watercourse: River - Above a Dam - Naches River, 5.25 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Public Recreation Site/Area, Sensitive Resources, Water Intakes, Wildlife Refuge

Recommended Equipment

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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
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<tr>
<td>Boom - Sorbent</td>
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</tr>
<tr>
<td>Line - 3/8” poly line</td>
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<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<td>Supervisor</td>
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</table>
Eschbach Park and Congdon Screens

NACH-8.95R Photo: View of the inlet to the Congdon water intake and fish screen taken from midriver

**Site Contact**

**US Bureau of Reclamation**
Land/Property Owner: Yakima Field Office Manager
509-406-3031

**Yakima County Parks**
Land/Property Contact: Manages Eschbach Park and other county parks
509-574-2952

**Nearest Address**

4700 S Naches Rd
Naches, WA 98937

**Driving Directions**

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (3.95 miles)
4. Turn left on Ackley Rd (0.07 miles)
5. Turn right on W Powerhouse Rd (0.24 miles)
6. Turn left on S Naches Rd (4.88 miles)
7. Turn right on Eschbach Park Rd, first right past 4700 S Naches Rd, 98937, then take the dirt drive over the bridge to the right and follow it back along the canal to the river (0.5 miles)
City of Yakima Wastewater Treatment Plant

**Position - Location:** 46° 41.215', -120° 39.272'  
46° 41' 12.9", -120° 39' 16.3"  
46.68691, -120.65454

**Strategy Objective:** Collect oil moving downstream on the Yakima River on river left

**Implementation:** Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.687694, -120.654529). Extend boom downstream and across to river left, securing remainder at/near Point B (46.686834, -120.654483). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. Small vac-truck or skimmer/storage collection at Point B.

**Staging Area:** Onsite: Park in WDFW parking area, room for staging, but call City of Yakima Water to get inside fence to access dike road

**Site Safety:** Water Hazard; Slips, Trips, Falls

**Field Notes:** Coordinate with City of Yakima for access to inside fenced area of Dike Rd; call 509-575-6177. Naches River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Naches River, 5.5 miles upstream of the Nelson Diversion Dam

**Resources at Risk:** Bald Eagle, General Fish and Wildlife Resources, Riparian Habitat

**Recommended Equipment**

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<td>Anchoring System(s) - Shoreside</td>
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<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
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<tr>
<td>Winch - Come-A-Long</td>
<td>1 Each</td>
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<tr>
<td>Workboat(s) - (hand-launch)</td>
<td>1 Each</td>
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**Recommended Personnel**

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NACH-9.2L Photo: View looking upstream from the dike road just upstream of the City of Yakima Wastewater Treatment Plant, site of NACH 9.2L

### Site Contact

**City of Yakima Water Department**  
Land/Property Contact: City Water Intakes & Treatment Plant  
509-575-6177

**WDFW Region 3 South Central**  
Land/Property Contact: Management agency for water access site  
509-575-2740

### Nearest Address

6390 US Highway 12  
Yakima, WA 98908

### Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)  
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)  
3. At fork keep right on US-12 W toward Naches / White Pass (9.26 miles)  
4. Make left turn at Low Rd (0.13 miles)  
5. Turning into the WDFW parking area which is directly across from Low Rd, next door to the City of Yakima Wastewater Treatment Plant at 6390 US Highway 12, 98908, on the right
**Gleed Screens and Water Intake**

**Position - Location:** 46° 41.498', -120° 39.209'  
46° 41' 29.9", -120° 39' 12.6"  
46.69164, -120.65349  
Naches

**Strategy Objective:** Collection: Collect oil moving downstream on the Naches River, immediately upstream of the Gleed Screens on river left

**Implementation:** Secure mid-point of 100 ft of boom to bank on east side of small channel (channel left) at/near Point A (46.691627, -120.653464). Using line, extend boom upstream ~45 ft and across to channel right; secure end to bank at/near Point B. From Point A, extend remaining boom downstream and across to channel right. Secure end at/near Point C. Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angles and anchors as needed, based on stream flow and conditions. Vac-truck or skimmer/storage collection at Point A.

**Staging Area:** Onsite: Gravel area inside locked gate with ~1155 sq ft of available space for parking

**Site Safety:** Water Hazard; Slips, Trips, Falls; located off of busy highway

**Field Notes:** Coordinate with the US Bureau of Reclamation for access 509-406-3031. Naches River has extreme variability in seasonal flow

**Watercourse:** River - Above a Dam - Naches River, 5.85 miles upstream of the Nelson Diversion Dam

**Resources at Risk:** Bald Eagle, Fish Screens, Water Intakes

**Recommended Equipment**

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<td>Bolt Cutters</td>
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</table>
**Gleed Screens and Water Intake**

**NACH-9.55L Photo:** Looking down at the drive and shoreline at NACH-9.55L

### Site Contact

**US Bureau of Reclamation**  
Primary Contact: Yakima Field Office Manager  
Yakima, WA 98901-2058  
509-406-3031

### Nearest Address

6630 US-12  
Naches, WA 98937

### Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)  
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)  
3. At fork keep right on US-12 W toward Naches / White Pass (10.43 miles)  
4. Make U-turn and go back on US-12 E (US Highway 12) (0.92 miles)  
5. Finish at 6630 US-12, 98937, on the right
Yakima City Water Intake

**Position - Location:** 46° 41.728', -120° 39.248'  
46° 41' 43.7", -120° 39' 14.9"  
46.69547, -120.65414  
Naches

**Strategy Objective:** Collection: Collect oil entering Yakima River from ditch under highway on river left

**Implementation:** Secure 200 ft of boom to bank on canal left at/near Point A (46.695534, -120.65423). Using line, extend boom downstream ~45 ft and across to concrete structure on opposite side; secure boom mid-point at/near Point B. Extend remaining boom downstream and across to channel left, securing end at/near Point C (46.695307, -120.654036). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle as needed, based on stream flow and environmental conditions. Use vac-truck or skimmer/storage to collect oil at Point A.

**Staging Area:** Onsite: Stage in gated gravel parking area

**Site Safety:** Water Hazard; Slips, Trips, Falls; busy hwy nearby

**Field Notes:** Coordinate with City of Yakima Water Department 509-575-6177 for access. Naches River has extreme variability in seasonal flow

**Watercourse:** River - Above a Dam - Naches River, 6.15 miles upstream of the Nelson Diversion Dam

**Resources at Risk:** Bald Eagle, Water Intakes

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**Recommended Equipment**

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<td>Bolt Cutters</td>
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<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
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</table>
Yakima City Water Intake

NACH-9.85L Photo: View from downstream next to the Yakima City Water intake, looking back upstream

Site Contact

City of Yakima Water Department
Primary Contact: City Water Intakes & Treatment Plant
Yakima, WA 98908
509-575-6177

Nearest Address

7055 US-12
Naches, WA 98937

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
4. Do a u-turn and go back (0.5 miles) Finish at 7055 US-12, 98937, on the right
Water Intake/Fish Screen City of Yakima

Position - Location: 46° 41.863', -120° 39.355'  |  46° 41' 51.8", -120° 39' 21.3"  |  46.69772, -120.65592

Strategy Objective: Exclusion: Keep oil out of water intake and fish screen

Implementation: Secure end of 100 ft boom to river left at/near Point A (46.697768, -120.655964), immediately upstream of fish screen. Extend boom downstream and secure along bank at/near Point B (46.697531, -120.655870). Use line, or anchor, to secure boom at Point C (immediately below observation deck). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

Staging Area: Onsite: Park at pull off along US Hwy-12, pull off is short and narrow (50'x10'), only room for two vehicles

Site Safety: Water Hazard; Slips, Trips, Falls; Busy Highway with Roadside Parking

Field Notes: Notify City of Yakima Water Department 509-575-6177 for access. Naches River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Naches River, 6.3 miles upstream of the Nelson Diversion Dam

Resources at Risk: Bald Eagle, Fish Screens, Water Intakes

Recommended Equipment

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 1 Each Bolt Cutters
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 2 Each Heaving Line(s)
- 100 Feet Line - 3/8” poly line

Recommended Personnel

- 2 Laborer
- 1 Supervisor
NACH-10.0L Photo: Downstream view from the observation platform on the City of Yakima Water Intake gate facility

**Site Contact**

**City of Yakima Water Department**  
Primary Contact: City Water Intakes & Treatment Plant  
Yakima, WA 98908  
509-575-6177

**Nearest Address**  
7055 US-12  
Naches, WA 98937

**Driving Directions**

1. Head west from West Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (72.62 miles)
5. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
6. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
7. Do a u-turn and go back (0.5 miles) Finish at 7055 US-12, 98937, on the right
**Site Safety:**

- Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Staging Area:**

- Remote: Stage at SA-NACH-10.5L

**Watercourse:**

- River - Above a Dam - Naches River, 6.45 miles upstream of the Nelson Diversion Dam

**Resources at Risk:**

- Bald Eagle, Riparian Habitat, Water Intakes

---

**Strategy Objective:**

Exclusion: Keep oil out of entrance to side channel on river left

**Implementation:**

Using workboat, secure end of 100 ft of boom to the bank on river left, upstream of channel, at/near Point A (46.699777, -120.658797). Extend boom downstream, across channel, and secure at/near Point B (46.699506, -120.658636). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

**Staging Area:**

- Remote: Stage at SA-NACH-10.5L

**Site Safety:**

- Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**

Hand launch at BL-NACH-10.5L. If unable to get back upstream, take out downstream at the City of Yakima water intake NACH-10.0L or the next water intake NACH-9.55L. Naches River has extreme variability in seasonal flow.

---

**Recommended Equipment**

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - (hand-launch)

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**Recommended Personnel**

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor

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NACH-10.15L Photo: View of the mouth of the inlet where NACH-10.15L is to be deployed

**Site Contact**

**WDFW Region 3 South Central**

Land/Property Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

**Nearest Address**

7458 US-12
Naches, WA 98937

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-NACH-10.5L/BL-NACH-10.5L) Side Channel Inlet to City of Yakima Water Intake

1. Head west from Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (72.62 miles)
5. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
6. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
7. Finish at 7458 US-12, 98937, on the left
Sulfur Creek

Position - Location: 46° 14.660', -120° 1.199'  46° 14' 39.6", -120° 1' 12.0"  46.24433, -120.01999

Strategy Objective: Collection: Collect oil moving downstream on Sulfur Creek

Implementation: Secure end of 100 ft of boom to bank on NW side of McGee Rd Bridge over canal at/near Point A (46.24409, -120.020223; upstream side of bridge, canal right). Using line, walk boom across the canal and extend downstream, pull tight, and secure to shore on canal right at/near Point B. Use shoreside anchors or existing features to secure boom to banks. Back hard boom with sorbents for collection. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection at point B.

Staging Area: Onsite: Additional parking is available at Sunnyside State Wildlife Recreation Area to the southwest of strategy location

Site Safety: Water Hazard; Dangerous Wildlife/Snakes; Slips, Trips and Falls; Heavy Vegetation

Field Notes: Parking for vac truck on the NE side of the bridge. Sulfur Creek has little variability in seasonal flow.

Watercourse: Ditch - Sulfur Creek, 0.3 miles from its confluence with the Yakima River

Resources at Risk: State Protected Area/Lands

Recommended Equipment

- 2 Each Anchoring System(s)- Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 2 Each Heaving Line(s)
- 100 Feet Line - 3/8” poly line
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage

Recommended Personnel

- 2 Laborer
- 1 Supervisor
SULFC-0.3 Photo: View of the bridge and location of anchor point A taken from anchor point B on canal right

### Site Contact

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939

### Nearest Address

1080 McGee Rd  
Mabton, WA 98935

### Driving Directions

1. Head west from West Richland on I-82  
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)  
3. Turn left on N Dallas Rd (0.13 miles)  
4. Turn left onto ramp and go on I-82 W toward Yakima (31.32 miles)  
5. At exit 73 take ramp on the right toward Stover Rd (0.5 miles)  
6. Make sharp left on W Wine Country Rd (Yakima Valley Hwy) (0.25 miles)  
7. Make sharp right (0.06 miles)  
8. Turn right on Stover Rd (3.85 miles)  
9. Turn left on Mabton-Sunnyside Rd (WA-241) (2.01 miles)  
10. Turn right on McGee Rd (0.49 miles)  
11. Go past 1080 McGee Rd, 98935, on the left until you reach the strategy location at the bridge over Sulfur Creek (0.1 miles)
**Wye Park boat launch**

**Position - Location:**
- 46° 14.331', -119° 13.721'
- 46° 14’ 19.8", -119° 13’ 43.3"  
  46.23885, -119.22869  
  Richland

**Strategy Objective:** Collection: Collect oil that is moving downstream while keeping Wye Park boat launch open

**Implementation:** Anchor on the left side of the boat launch and run 800' of boom out to the NW; keep the boat launch open. Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day.

**Staging Area:** Onsite: Paved parking on site at SA-YAK-0.5R/Wye Park

**Site Safety:** Water hazard, slips trips & falls, moving vehicles

**Field Notes:** Launch on site at BL-YAK-0.5R/Wye Park

**Watercourse:** River - Above a Dam - McNary Pool at the confluence with the Yakima River

**Resources at Risk:** Boat Launch/Ramp, City Park, Salmonid Concentrations and Habitat, Waterfowl and Shorebird Concentrations

### Recommended Equipment

- 6 Each Anchor - Danforth (or other appropriate type)
- 2 Each Anchoring System(s)- Shoreside
- 800 Feet Boom - B2 (Contractor Boom) or equivalent
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Wye Park boat launch

YAK-0.5R Photo: View of the shoreside anchor point at the boat launch

Site Contact

City of Richland Parks and Recreation Department
Primary Contact: Manages this boat launch
Richland, WA 99352
509-942-7529

Nearest Address

1600 Columbia Park Trail
Richland, WA 99352

Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton
Continue to follow I-182 W (2.4 mi)
3. Take exit 12A for US-395 S toward Kennewick/Pendleton (0.7 mi)
4. Continue onto US-395 S (1.8 mi)
5. Keep right to continue on WA-240 W, follow signs for Washington 240 W/Richland (4.2 mi)
6. Take the Columbia Center Boulevard exit (0.2 mi)
7. Turn right onto N Columbia Center Blvd (0.3 mi)
8. Turn left onto Columbia Park Trail, destination will be on the right (0.2 mi)
9. Finish at 1600 Columbia Park Trail, 99352, on the right
Hwy 240 Bridge - George Washington Way

Position - Location: 46° 15.286', -119° 15.367'  46° 15' 17.2", -119° 15' 22.0"  46.25477, -119.25611  Richland

Strategy Objective: Collection : Collect oil moving downstream

Implementation: Anchor 800' of boom on the E side of the clearing on the N shore. Deploy a small boat by hand and tow the boom SW to the S shore, anchoring it under the railroad bridge (above the creek). Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day.

Staging Area: Onsite: Stage on-site large gravel parking area

Site Safety: SSlopes, Trips, Falls, Water Hazard, & Active Railroad, expect trains on the track at any time/from either direction. Do not allow

Field Notes: Hand launch a boat from the north shore

Watercourse: River - Above a Dam - Yakima River entering the McNary Pool

Resources at Risk: Critical Waterfowl, Shorebird Nesting, and Brooding Area, Downstream Resources, Public Recreation Site/Area, Salmonid

Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor - Danforth</td>
<td>3 Each</td>
<td>(or other appropriate type)</td>
</tr>
<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B2 (Contractor Boom) or equivalent</td>
<td>800 Feet</td>
<td></td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - (hand-launch)</td>
<td>1 Each</td>
<td></td>
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Recommended Personnel

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richland</td>
<td>1 Boat Operator</td>
</tr>
<tr>
<td></td>
<td>3 Laborer</td>
</tr>
<tr>
<td></td>
<td>1 Supervisor</td>
</tr>
</tbody>
</table>
Hwy 240 Bridge - George Washington Way

YAK-2.1L Photo: View of collection point facing bridges

Site Contact
City of Richland Parks and Recreation Department
Land/Property Contact: Manages this boat launch
Richland, WA  99352
509-942-7529

Nearest Address
91 George Washington Way
Richland, WA  99352

Driving Directions
1. From Washington 240 W take the I-182 E exit toward Pasco (0.1 mi)
2. Turn off onto gravel frontage road, destination will be on the right (0.1 mi)
(If coming from the opposite direction you must cross the 240 bridge, turn around and then follow the
directions as there is only a pedestrian walkway to access the site from the eastbound lane which can only
accommodate a small vehicle)
Chamna Natural Preserve, Tapteal Water Trail

**Position - Location:** 46° 15.402', -119° 17.251'  
46° 15' 24.1", -119° 17' 15.1"  
46.25670, -119.28752  
Richland

**Strategy Objective:** Collection: Collect oil moving downstream

**Implementation:** Drive vac truck (or portable skimmer & storage) down to water, anchor 600' of boom to shore, hand launch a boat and take boom upstream to the opposite bank, anchor on shore. Adjust angle of boom, as well as quantity & placement of anchors based on conditions of the day.

**Staging Area:** Onsite: Paved parking area with paved path to the water (may need to cut back vegetation by the water for vac truck)

**Site Safety:** Water hazard, slips, trips & falls

**Field Notes:** Bring bolt cutters to remove padlock from post in paved path, must hand launch boat

**Watercourse:** River - Side Channel - Yakima River upstream of the McNary Pool

**Resources at Risk:** City Park, Critical Waterfowl, Shorebird Nesting, and Brooding Area, Fish and Wildlife Resources, Public Recreation Site/Area, Salmon

**Recommended Equipment**

2 Each  
Anchor - Danforth (or other appropriate type)

2 Each  
Anchoring System(s) - Shoreside

600 Feet  
Boom - B2 (Contractor Boom) or equivalent

1 Each  
Vac Truck or Skimmer and Storage

1 Each  
Workboat(s) - (hand-launch)

**Recommended Personnel**

1 Boat Operator

2 Laborer

1 Supervisor
Chamna Natural Preserve, Tapteal Water Trail

YAK-4.2L Photo: View from downstream shoreside anchor point to upstream shoreside anchor point

Site Contact

City of Richland Parks and Recreation Department
Land/Property Contact: Manages this boat launch

Richland, WA 99352
509-942-7529

Nearest Address

1000 Carrier Rd
Richland, WA 99352

Driving Directions

1. Start at US 395 Pasco, WA 99301
2. Go south on US-395 toward W Vineyard Dr (4.52 miles)
3. Take ramp on the right and go on I-182 W/US-395 S toward Richland/Pendleton (9.25 miles)
4. At exit 5B take ramp on the right to Geo. Washington Way (0.61 miles)
5. Continue on WA-240-BR (George Washington Way) (0.2 miles)
6. Turn left on Adams St (0.03 miles)
7. Make sharp left on Aaron Dr (0.6 miles)
8. Turn left on Jadwin Ave (0.15 miles)
9. Turn right on Carrier Rd (0.5 miles)
10. Finish at parking lot for Tapteal Water Trail & Chamna Natural Preserve on the right
### Southern End of Riverside Drive

**Position - Location:** 46° 16.339', -119° 18.946'  
46° 16' 20.4", -119° 18' 56.8"  
46.27232, -119.31577  
Richland

**Strategy Objective:** Exclusion: Keep oil out of backwater habitat area on river right

**Implementation:** Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.272404, -119.31596). Extend boom downstream, across the side channel, securing it on river right at/near Point B (46.272152, -119.315773). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-8.75L, Hyde Road Boat Launch

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-8.75L, Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 11.8 miles downstream of the Wanawish Diversion Dam

**Resources at Risk:** Recreational Use Area, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat

---

**Recommended Equipment**

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Southern End of Riverside Drive

YAK-6.2R Photo: Mouth of the side channel at the southern end of Riverside Dr

Site Contact

No Information
Not Determined:

Nearest Address

3100 Hyde Road
Richland, WA 99354

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK8.75L/BL-YAK8.75L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at the end of West Hyde Rd, 99354
### Van Giesen St at Jones Road


| Strategy Objective: | Collection: Collect oil moving downstream on the Yakima River on river left |

| Implementation: | Using workboat, secure end of 400 ft of boom to river left at/near Point A (46.29474, -119.23412,). Extend boom downstream, securing mid-channel, at/near Point B (46.29437, -119.32323). Then extend remaining boom downstream, securing it at/near Point C (46.29406, -119.32293). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at/near Point C. |

| Staging Area: | Onsite: Staging area has 3400 sq ft dirt/gravel parking off road |

| Site Safety: | Water Hazard; Slips, Trips, Falls; Heavy Vegetation |

| Field Notes: | Launch upstream at BL-YAK-8.75L, Hyde Road Boat Launch. Follow WSDOT guidelines for work zone traffic control if you need to stage vac truck on roadside. Yakima River has extreme variability in seasonal flow. |

| Watercourse: | River - Below a Dam - Yakima River, 10.15 miles downstream of the Wanawish Diversion Dam |

| Resources at Risk: | Recreational Use Area, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat |

### Recommended Equipment

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<th>Item</th>
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<tr>
<td>Anchoring System(s)</td>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>400 Feet</td>
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<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Van Giesen St at Jones Road

YAK-7.85L Photo: View of the collection point for YAK-7.85L, photo taken from shore

Site Contact

WSDOT
Land/Property Contact: S Central Region Traffic Management/WSP District 3

Union Gap, WA 98903
509-577-1990

Nearest Address

2815 Van Giesen St
Richland, WA 99354

Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellisian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (0.84 miles)
6. Finish just past 2815 Van Giesen St, 99354, on the left
### West Van Giesen Street Bridge

**YAK-8.5R**

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 17.836', -119° 20.007'</th>
<th>46° 17' 50.1&quot;, -119° 20'.4&quot;</th>
<th>46.29726, -119.33345</th>
<th>West Richland</th>
</tr>
</thead>
</table>

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river right

**Implementation:** Using workboat, secure end of 300 ft of boom to shore on river left, at/near Point A (46.29741, -119.333249). Extend boom downstream, securing it on river right at/near Point B (46.29741, -119.333249). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at/near Point B.

**Staging Area:** Onsite: There is an access gate at end of cul-de-sac on S 35th Ave. Parking beside bridge and along riverside.

**Site Safety:** Water Hazard; Rip Rap; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-8.75L, Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 9.5 miles downstream of the Wanawish Diversion Dam

**Resources at Risk:** Economic Resource, General Fish and Wildlife Resources, Riparian Habitat

#### Recommended Equipment

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
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<tbody>
<tr>
<td>3 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>2 Each</td>
<td>Anchoring System(s) - Shoreside</td>
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<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>1 Each</td>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
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<tr>
<td>2 Each</td>
<td>Heaving Line(s)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Vac Truck or Skimmer and Storage</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
</tr>
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</table>

#### Recommended Personnel

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<tr>
<th>Quantity</th>
<th>Role</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
</tr>
<tr>
<td>2</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
**West Van Giesen Street Bridge**

**YAK-8.5R Photo: View of the shoreline under the W Van Giesen St Bridge**

**Site Contact**

West Richland Public Works  
Municipality (County/City): Contact for gate access  
West Richland, WA 99353  
509-967-5434

**Nearest Address**

S 35th Ave  
West Richland, WA 99353

**Driving Directions**

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)  
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)  
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)  
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)  
5. Make sharp left on Van Giesen St (WA-224) (1.71 miles)  
6. Turn left on S 38th Ave (0.08 miles)  
7. Turn left on Everett St (0.16 miles)  
8. Turn left on S 35th Ave (0.1 miles)  
9. Finish at the end of S 35th Ave, 99353, on the right
Hyde Road Boat Launch

Position - Location: 46° 18.035', -119° 19.878'  46° 18' 2.1", -119° 19' 52.7"  46.30059, -119.33130  West Richland

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River on river left

Implementation: Using workboat, secure end of 600 ft of boom to river right at/near Point A (46.3022, -119.33125.). Extend boom downstream, securing it mid-channel, at/near Point B (46.30162, -119.33119). Then extend remaining boom downstream, securing it by launch, at/near Point C (46.30059, -119.33106). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

Staging Area: Onsite : Stage at SA-YAK-8.75L, Hyde Road Boat Launch

Site Safety: Public Use Site; Boat/Vehicle/Pedestrian Traffic; Water Hazard; Slips, Trips, Falls; Dangerous Animals\Snakes; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-8.75L, Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 9.25 miles below the Wanawish Diversion Dam

Resources at Risk: Boat Launch/Ramp, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

- 8 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 600 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Hyde Road Boat Launch

YAK-8.75L Photo: View of the shore near anchor point A at the Hyde Rd boat launch

Site Contact

WDFW Region 3 South Central
Primary Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

3000 Hyde Road
West Richland, WA 99354

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-8.75L/BL-YAK-8.75L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at the end of West Hyde Rd, 99354
**Horseshoe Lake - Downstream End**

| **Position - Location:** | 46° 19.435', -119° 20.573' | 46° 19' 26.1", -119° 20' 34.4" | 46.32392, -119.34298 | Richland |

**Strategy Objective:** Exclusion: Keep oil out of entrance to Horseshoe Lake on river left

**Implementation:** Using a workboat, secure end of 100 ft of boom to bank on river left, immediately upstream of entrance to Horseshoe Lake, at/near Point A (46.32388, -119.343). Extend boom downstream, across lake entrance, and secure on river left at/near Point B (46.32403, -119.34279). Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchoring systems as needed, based on stream flow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-8.75L, on Hyde Road

**Site Safety:** Water Hazard; Heavy Vegetation; Slips, Trips, Falls

**Field Notes:** Launch at BL -YAK-8.75L, Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 7.1 miles downstream of the Wanawish Diversion Dam

**Resources at Risk:** General Fish and Wildlife Resources, Riparian Habitat

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**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each Anchoring System(s) - (anchor, lines, floats)</td>
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<td></td>
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<tr>
<td>Each Anchoring System(s) - Shoreside</td>
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<tr>
<td>100 Feet Boom - B3 (River Boom) or equivalent</td>
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</tr>
<tr>
<td>Each Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1</td>
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</tr>
<tr>
<td>Each Machete(s) - (or other vegetation cutting tool)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Each Workboat(s) - of adequate size for type and amount of boom</td>
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**Recommended Personnel**

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
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<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
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</table>
**Horseshoe Lake - Downstream End**

**YAK-10.9L Photo:** Looking NW from boat toward downstream end of Horseshoe Lake.

### Site Contact

**No Information**

Not Determined:

### Nearest Address

3100 Hyde Road
Richland, WA  99354

### Driving Directions

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-8.75L/BL-YAK-8.75) Hyde Road Boat Launch**

1. Head west from West Richland on I-182 W (US-12 W) (0.07 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at 3100 Hyde Rd, 99354, on the left
Site Safety: Water Hazard; Off-road Driving; Slips, Trips, Falls; Heavy Vegetation

Staging Area: Onsite: Field, accessible by dirt road. Can stage at SA-YAK-8.75L Hyde Road Boat Launch if dirt road is unaccessible.

Implementation: Using workboat, secure end of 600 ft of boom to bank on river right at/near Point A (46.318808, -119.34814). Extend boom downstream to mid channel, securing it at/near Point B (46.319952, -119.348263). Take the remaining boom across channel to river left, securing it at/near Point C (46.320662, -119.348225). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. Use skimmer/portable storage to collect oil at

Launch at BL-YAK-8.75L Hyde Road Boat Launch. Yakima River has extreme variability in seasonal flow. In low flow it may be necessary to hand launch on site and reduce length of boom to 300'

Watercourse: River - Below a Dam - Yakima River, 6.75 miles downstream of the Wanawish Diversion Dam

Resources at Risk: General Fish and Wildlife Resources, Riparian Habitat

Recommended Equipment

- 7 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 1 Each Bolt Cutters
- 600 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 2 Each Heaving Line(s)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Skimmer (appropriately sized) with Portable Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Horseshoe Lake - upstream end

YAK-11.25L Photo: View of anchor point B on the Yakima River near the upstream end of Horseshoe Lake

Site Contact

No Information
Not Determined:

Nearest Address

80721 N Weidle Road
West Richland, WA 99353

Driving Directions

1. Head west from West Richland on I-182 W toward Richland (8.54 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (3.7 miles)
6. Turn left on Twin Bridges Rd (1.1 miles)
7. Turn left on N Weidle Rd (0.02 miles)
8. Take the first dirt road on the right past 80721 N Weidle Road, 99353, follow it back to strategy location on the river 46.320363, -119.34858
Shore off of N 46th Ave  

**Position - Location:** 46° 18.899', -119° 20.956'  
46° 18' 54.0", -119° 20' 57.4"  
46.31499, -119.34927  
West Richland

**Strategy Objective:** Deflection: Keep oil away from entrance to backwater channel on river right

**Implementation:**  
Using workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.314523, -119.349093). Extend boom downstream to mid channel, securing it on the left side of the island at/near Point B (46.31499, -119.349273). Take the remaining boom further downstream, securing it at/near Point C (46.315277, -119.349152). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-8.75L, Hyde Road, if low water stage on river left near strategy location 46.314901, -119.350449

**Site Safety:**  
Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**  
Launch at BL-YAK-8.75L, Hyde Road Boat Launch, unless low water conditions and then may need to hand launch from river left near 46.314901, -119.350449 across from strategy location. Yakima River has extreme variability in seasonal flow.

**Watercourse:**  
River - Below a Dam - Yakima River, 7.5 miles downstream of the Wanawish Diversion Dam

**Resources at Risk:** Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat

---

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
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<tbody>
<tr>
<td>4 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
</tr>
<tr>
<td>2 Each</td>
<td>Anchoring System(s) - Shoreside</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>1 Each</td>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
</tr>
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</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
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<tr>
<td>2</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
Shore off of N 46th Ave

YAK-11.5R Photo: View of the island downstream, location of anchor point B

Site Contact

No Information
Not Determined :

Nearest Address

3100 Hyde Road
Richland, WA 99354

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-8.75L/BL-YAK-8.7L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. Go north on N Road 68 toward Argent Rd (1.45 miles)
3. Bear right onto ramp and go on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
4. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
5. At fork keep left on WA-240 W toward Vantage (0.27 miles)
6. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
7. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
8. Turn right on Kingston Rd (0.2 miles)
9. Turn left on Hyde Rd (0.15 miles)
10. Finish at Hyde Road Boat Launch at the end of West Hyde Rd 99354
**Left fork at Twin Bridges Road**

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 19.628', -119° 22.499'</th>
<th>46° 19' 37.7&quot;, -119° 22' 30.0&quot;</th>
<th>46.32713, -119.37499</th>
<th>West Richland</th>
</tr>
</thead>
</table>

**Strategy Objective:** Deflection: Keep oil away from side channel on river left.

**Implementation:**
Using workboat, secure end of 300 ft of boom to river left at/near Point A (46.327383, -119.375471). Extend boom downstream to mid-channel, securing it to the NW tip of the island at/near Point B (46.327383, -119.375471). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

**Staging Area:** Remote: Stage at SA-YAK-16.25L (in low water conditions you may be able to stage off N Snively Rd at Twin Bridges).

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-16.25L, North Snively Road Boat Launch. Yakima River has extreme variability in seasonal flows.

**Watercourse:** River - Below a Dam - Yakima River, 4.7 mile downstream of Wanawish Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat

---

### Recommended Equipment

<table>
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<th>Quantity</th>
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<td>3 Each</td>
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<td>2 Each</td>
<td>Anchoring System(s)- Shoreside</td>
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<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>1 Each</td>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
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<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
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### Recommended Personnel

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<tr>
<th>Quantity</th>
<th>Role</th>
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<tr>
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<td>2</td>
<td>Laborer</td>
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<td>1</td>
<td>Supervisor</td>
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</table>
Left fork at Twin Bridges Road

YAK-13.3L Photo: View of the Y channels at YAK-13.3

Site Contact

No Information
Not Determined:

Nearest Address

4116 N Snively Rd
West Richland, WA  99353

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head northwest from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (1.17 miles)
2. Turn right on Grosscup Blvd (0.78 miles)
3. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
4. Turn left on N Grosscup Rd (0.53 miles)
5. Continue on N Yakima River Dr (0.1 miles)
6. Turn right on Twin Bridges Rd (0.29 miles)
7. Turn left on N Snively Rd (2.79 miles)
8. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.
**N Yakima River Drive**

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 19' 781&quot;, -119° 23.177&quot;</th>
<th>46° 19' 46.8&quot;, -119° 23' 10.6&quot;</th>
<th>46.32968, -119.38628</th>
<th>West Richland</th>
</tr>
</thead>
</table>

**Strategy Objective:** Deflection: Keep oil away from side channel entrance on river right

**Implementation:** Using workboat, secure end of 300 ft of boom to river right at/near Point A (46.329933, -119.387051). Extend boom downstream to mid-channel, securing it on the NW tip of the island at/near Point B (46.32786, -119.38588). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

**Staging Area:** Remote: Stage at SA—YAK-16.25L, North Snively Road Boat Launch.

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-16.25L. North Snively Road Boat Launch. In low water conditions you may be able to hand launch from an empty lot near 80331 N Yakima River Dr., West Richland, 99353. Yakima River has extreme variability in seasonal flows.

**Watercourse:** River - Below a Dam - Yakima River, 4 miles downstream of Wanawish Diversion Dam.

**Resources at Risk:** Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

| 3 Each | Anchoring System(s) - (anchor, lines, floats) |
| 2 Each | Anchoring System(s) - Shoreside |
| 300 Feet | Boom - B3 (River Boom) or equivalent |
| 1 Each | Bridle(s) - Towing (appropriately sized for boom) |
| 1 Each | Machete(s) - (or other vegetation cutting tool) |
| 1 Each | Workboat(s) - of adequate size for type and amount of boom |

**Recommended Personnel**

| 1 Boat Operator |
| 2 Laborer |
| 1 Supervisor |
YAK-14.0R Photo: View of the Y Channels at river mile 14 on the Yakima River

Site Contact

No Information
Not Determined:

Nearest Address

4116 N Snively Rd
West Richland, WA 99353

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head northwest from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (1.17 miles)
2. Turn right on Grosscup Blvd (0.78 miles)
3. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
4. Turn left on N Grosscup Rd (0.53 miles)
5. Continue on N Yakima River Dr (0.1 miles)
6. Turn right on Twin Bridges Rd (0.29 miles)
7. Turn left on N Snively Rd (2.79 miles)
8. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.
Backwater Area Upstream of Snively Road

Position - Location: 46° 19.879', -119° 23.277'  46° 19' 52.7", -119° 23' 16.6"  46.33131, -119.38795  West Richland

Strategy Objective: Exclusion: Keep oil out of entrance to backwater area on river left

Implementation: Using workboat, secure end of 100 ft of boom to river left at/near Point A (46.331521, -119.387922). Extend boom downstream, across the backwater channel, securing it on river left at/near Point B (46.331267, -119.387694). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Staging Area: Remote: Stage at SA-YAK-16.25L, North Snively Road Boat Launch

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-16.25L, North Snively Road Boat Launch. In low water conditions you may be able to hand launch on river right via the empty lot near 80331 N Yakima River Dr. West Richland, 99353. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 3.9 miles downstream of Wanawish Diversion Dam.

Resources at Risk: Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

1 Each Anchoring System(s) - (anchor, lines, floats)
2 Each Anchoring System(s) - Shoreside
100 Feet Boom - B3 (River Boom) or equivalent
1 Each Bridle(s) - Towing (appropriately sized for boom)
1 Each Machete(s) - (or other vegetation cutting tool)
1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

1 Boat Operator
2 Laborer
1 Supervisor
YAK-14.1L Photo: View of the backwater entrance where YAK-14.1L will be deployed

**Site Contact**

No Information
Not Determined:

**Nearest Address**

4116 N Snively Rd
West Richland, WA 99353

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK16.25L/BL-YAK16.25L) North Snively Road Boat Launch

1. Head northwest from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (1.17 miles)
2. Turn right on Grosscup Blvd (0.78 miles)
3. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
4. Turn left on N Grosscup Rd (0.53 miles)
5. Continue on N Yakima River Dr (0.1 miles)
6. Turn right on Twin Bridges Rd (0.29 miles)
7. Turn left on N Snively Rd (2.79 miles)
8. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.
## Yakima River, River Mile 15.15

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 20.683', -119° 23.444'</th>
<th>46° 20' 41.0&quot;, -119° 23' 26.6&quot;</th>
<th>46.34472, -119.39073</th>
<th>West Richland</th>
</tr>
</thead>
</table>

### Strategy Objective:
Deflection: Keep oil away from entrance to channel on river right.

### Implementation:
Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.34505, -119.39119). Extend boom downstream, across the channel, securing it on the NW tip of the island at/near Point B (46.34405, -119.39012.). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

### Staging Area:
Remote: Stage at SA-YAK-16.25L, North Snively Road Boat Launch. May see heavy seasonal use.

### Site Safety:
Water Hazard; Slips, Trips, Falls; Heavy Vegetation

### Field Notes:
Launch at BL-YAK-16.25L, North Snively Road Boat Launch. Yakima River has extreme variability in seasonal flow.

### Watercourse:
River - Below a Dam - Yakima River, 2.85 miles downstream of the Wanawish Diversion Dam.

### Resources at Risk:
Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
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<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>500 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Operator</td>
<td>1</td>
</tr>
<tr>
<td>Laborer</td>
<td>3</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Yakima River, River Mile 15.15

YAK-15.15R Photo: Looking south from boat toward right channel across which boom would be deployed.

**Site Contact**

**WDFW Region 3 South Central**
Primary Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

**Nearest Address**

4116 N Snively Rd
West Richland, WA 99353

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head northwest from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (1.17 miles)
2. Turn right on Grosscup Blvd (0.78 miles)
3. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
4. Turn left on N Grosscup Rd (0.53 miles)
5. Continue on N Yakima River Dr (0.1 miles)
6. Turn right on Twin Bridges Rd (0.29 miles)
7. Turn left on N Snively Rd (2.79 miles)
8. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.
**North Snively Road Boat Launch**

**Position - Location:** 46° 21.613', -119° 23.840'  
46° 21' 36.8", -119° 23' 50.4"  
46.36021, -119.39733  
West Richland

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river left

**Implementation:** Using workboat, secure end of 800 ft of boom to river right at/near Point A (46.361893, -119.398442.). Extend boom downstream to mid-channel, securing it at/near Point B (46.361314, -119.397536). Extend remaining boom to upstream side of boat launch, securing it at/near Point C (46.359938, -119.396673). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

**Staging Area:** Onsite: SA-YAK-16.25L, North Snively Road Boat Launch. May see heavy seasonal use

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation; Vehicle/Boat/Pedestrian Traffic

**Field Notes:** Launch onsite at BL-YAK-16.25L, North Snively Road Boat Launch. Yakima River has extreme variability is seasonal flows.

**Watercourse:** River - Below a Dam - Yakima River, 1.75 miles downstream of the Wanawish Diversion Dam.

**Resources at Risk:** Great Blue Heron, Recreational Use Area, Salmonid Concentrations and Habitat, Waterfowl Concentrations

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
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<tr>
<td>Anchoring System(s)</td>
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<tr>
<td>Anchoring System(s)-</td>
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<td>Shoreside</td>
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<tr>
<td>Feet</td>
<td>800</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>Bridle(s)</td>
<td>1 Each</td>
<td>- Towing (appropriately sized for boom)</td>
</tr>
<tr>
<td>Machete(s)</td>
<td>1 Each</td>
<td>- (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>Vac Truck or Skimmer</td>
<td>1 Each</td>
<td>and Storage</td>
</tr>
<tr>
<td>Workboat(s)</td>
<td>1 Each</td>
<td>- of adequate size for type and amount of boom</td>
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**Recommended Personnel**

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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</tr>
<tr>
<td>Laborer</td>
<td>3</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
North Snively Road Boat Launch

YAK-16.25L Photo: View of anchor point A looking upstream toward anchor point B

**Site Contact**

**WDFW Region 3 South Central**
Primary Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

**Nearest Address**

4116 N Snively Rd
West Richland, WA 99353

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK16.25L/BL-YAK16.25L) North Snively Road Boat Launch

1. Head west from West Pasco on I-182
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (2.89 miles)
6. Turn right on Grosscup Blvd (0.78 miles)
7. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
8. Turn left on N Grosscup Rd (0.53 miles)
9. Continue on N Yakima River Dr (0.1 miles)
10. Turn right on Twin Bridges Rd (0.29 miles)
11. Turn left on N Snively Rd (2.8 miles)
12. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.
## North Harrington Road Water Access Site

**Position - Location:** 46° 22.753', -119° 25.465'  
46° 22' 45.2", -119° 25' 27.9"  
46.37922, -119.42441  
Benton City

### Strategy Objective:
Collection: Collect oil moving downstream on the Yakima River on river right

### Implementation:
Using workboat, secure end of 900 ft of boom to river left at/near Point A (46.379933, -119.426354.). Extend boom downstream to mid-channel, securing it at/near Point B (46.379537, -119.424896). Then extend remaining boom downstream to river right, securing it at/near Point C (46.379332, -119.422939). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

### Staging Area:
Remote: Stage at SA-YAK-18.7L, Horn Rapids Boat Launch

### Site Safety:
Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Vehicle/Boat/Pedestrian Traffic; Heavy Vegetation; Diversion Dam

### Field Notes:
Launch at BL-YAK-18.7L, Horn Rapids Boat Launch. Yakima River has extreme variability in seasonal flows.

### Watercourse:
River - Below a Dam - Yakima River, 0.35 miles upstream of Wanawish Diversion Dam

### Resources at Risk:
Fish Screens, Migratory Bird Populations, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

- **11 Each** Anchoring System(s) - (anchor, lines, floats)
- **2 Each** Anchoring System(s)- Shoreside
- **900 Feet** Boom - B3 (River Boom) or equivalent
- **1 Each** Bridle(s) - Towing (appropriately sized for boom)
- **1 Each** Machete(s) - (or other vegetation cutting tool)
- **1 Each** Vac Truck or Skimmer and Storage (if collection)
- **1 Each** Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

- **1 Boat Operator**
- **3 Laborer**
- **1 Supervisor**
North Harrington Road Water Access Site

YAK-18.35R Photo: View downstream of anchor point C taken from a cliff on the south shore above anchor point A

**Site Contact**

**Benton County Parks Department**

Land/Property Contact: Manage parks  
5600A West Canal Place, A101  
Kennewick, WA 99336  
509-783-3118

**Nearest Address**

115799 N WA-225  
Benton City, WA 99320

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland  
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)  
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)  
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)  
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)  
6. Turn left on Horn Rd (WA-225) (0.77 miles)  
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.
Horn Rapids Park

**Position - Location:** 46° 22.659', -119° 26.074'  
46° 22' 39.5", -119° 26' 4.4"  
46.37765, -119.43456

**Strategy Objective:** Deflection: Keep oil away from park shoreline on river left.

**Implementation:** Using workboat, secure end of 500 ft of boom to river left, on Horn Rapid Park shoreline, at/near Point A (46.377135, -119.435032). Extend boom downstream, securing it mid-channel at/near Point B (46.378194, -119.433771). Use shoreside anchoring systems or existing features to secure boom to bank/facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

**Staging Area:** Remote: Stage at SA-YAK-18.7L, Horn Rapids Boat Launch. There is additional staging west of YAK-18.8L past the campground.

**Site Safety:** Water Hazard; Vehicle/Boat/Pedestrian Traffic; Slips, Trips, Falls; Dangerous Animals\Snakes; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-18.7L, Horn Rapids Boat Launch. Coordinate with Benton County Parks Department at 509-783-3118 for access. Yakima River has extreme variability in seasonal flows.

**Watercourse:** River - Above a Dam - Yakima River, 0.8 miles upstream of Wanawish Dam

**Resources at Risk:** County Park, Migratory Bird Populations, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**
- 6 Each Anchoring System(s) - (anchor, lines, floats)
- 1 Each Anchoring System(s)- Shoreside
- 1 Each Bolt Cutters
- 500 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**
- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Horn Rapids Park

YAK-18.8L Photo: View of the east bank across from the location where the deflection strategy YAK-18.8L is to be deployed

Site Contact

**Benton County Parks Department**
Primary Contact: Manage parks
5600A West Canal Place, A101
Kennewick, WA 99336
509-783-3118

Nearest Address

115799 N WA-225
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.
Yakima River, River Mile 20.4

**Position - Location:** 46° 21.446', -119° 26.691'  
46° 21' 26.7", -119° 26' 41.5"  
46.35743, -119.44485  
Benton City

**Strategy Objective:** Deflection: Keep oil away from entrance to side channel on river left

**Implementation:** Using workboat, secure end of 500 ft of boom to river left at/near Point A (46.35725, -119.44623). Extend boom downstream, securing it to the tip of a small island at/near Point B (46.357527, -119.445044). Then extend remaining boom downstream towards river right, securing it to the tip of the large island at/near Point C (46.357749, -119.444282). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-18.7L, Horn Rapids Park but you can drive to a parking lot on Reservation Road by the site.

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Although possible to launch and stage onsite, it is recommended to launch at BL-YAK-18.7L, Horn Rapids Park. Coordinate with Benton County Parks at 509-783-3118 for access issues. Horn Rapids Park has campground with power, potable water, and additional restrooms. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 2.4 miles upstream of Wanawish Diversion Dam.

**Resources at Risk:** Backwater Habitat, County Park, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat

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**Recommended Equipment**

- 5 Each Anchoring System(s) - (anchor, lines, floats)
- 3 Each Anchoring System(s) - Shoreside
- 1 Each Bolt Cutters
- 500 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Yakima River, River Mile 20.4

YAK-20.4L Photo: View of anchor point A and B taken from shore on river left

Site Contact

Benton County Parks Department
Land/Property Contact: Manage parks
5600A West Canal Place, A101
Kennewick, WA 99336
509-783-3118

Nearest Address

115799 N WA-225
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.
### Lower Yakima River GRP

#### June 2017

**Tapteal Water Trail mile 6.7 Access Site**


**Strategy Objective:**
Collection: Collect oil moving downstream on the Yakima River on river left

**Implementation:**
Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.336327, -119.480987). Extend boom downstream, securing it mid-river at/near Point B (46.336694, -119.480896). Then extend remaining boom downstream, securing it to shore on river left at/near Point C (46.337504, -119.480089). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at/near Point C.

**Staging Area:**
Remote: SA-YAK-18.7L, Horn Rapids Park boat launch

**Site Safety:**
Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
Launch at BL-YAK-18.7L, Horn Rapids Park. Horn Rapids Park has campground with power, potable water, and additional restrooms. Yakima River has extreme variability in seasonal flow. Vac truck access onsite from Higgens Access Road then south along river to site.

**Watercourse:**
River - Above a Dam - Yakima River, 4.7 miles upstream of Wanawish Diversion Dam

**Resources at Risk:**
County Park, Downstream Habitat, General Fish and Wildlife Resources, Sensitive Resources Nearby

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### Recommended Equipment

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>6 Each</td>
</tr>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
</tr>
<tr>
<td>Bolt Cutters</td>
<td>1 Each</td>
</tr>
<tr>
<td>500 Feet Boom - B3 (River Boom) or equivalent</td>
<td>1 Each</td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Skimmer (appropriately sized) with Portable Storage</td>
<td>1 Each</td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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### Recommended Personnel

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<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tr>
<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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Appendix 4A
**Site Contact**

**Benton County Parks Department**
Land/Property Contact: Manage parks
5600A West Canal Place, A101
Kennewick, WA 99336
509-783-3118

**Nearest Address**

115799 N WA-225
Benton City, WA 99320

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.
Intersection of Demoss Road and Ruppert Road

Position - Location: 46° 18.764', -119° 28.354'  
46° 18' 45.9", -119° 28' 21.3"  
46.31274, -119.47257  
Benton City

Strategy Objective: Collection: Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.311786, -119.472831). Extend boom downstream, securing it at/near Point B (46.312319, -119.472637). Then extend remaining boom downstream, securing it to shore on river left at/near Point C (46.313129, -119.472801). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil near Point C

Staging Area: Onsite: Stage at gravel pull out off Demos Road

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-29.6L, Benton City boat launch. Follow WSDOT guidelines for work zone traffic control during collection roadside. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 21.7 miles downstream of the Chandler Diversion Dam

Resources at Risk: Backwater Area, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

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<tr>
<td>Anchoring System(s) - Shoreside</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>500 Feet</td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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Recommended Personnel

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<th>Quantity</th>
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<td>Laborer</td>
<td>3</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Intersection of Demoss Road and Ruppert Road

YAK-25.2R Photo: Looking upstream at river right, site of YAK-25.2R collection strategy

Site Contact

Nearest Address

70212 N Demoss Rd
Benton City, WA 99320

Driving Directions

1. Head west from West Richland on W Van Giesen St (WA-224) toward S 39th Ave (2.21 miles)
2. Turn right on E Ruppert Rd (5.12 miles)
3. Make sharp right on N Demoss Rd (0.13 miles)
4. Finish at 70212 N Demoss Rd, 99320, on the left
North Demoss Road at Songbird Island  

**Position - Location:** 46° 17' 29.0", -119° 28' 16.9"  
**Strategy Objective:** Deflection: Keep oil away from entrance to side channel on river right  
**Implementation:** Using workboat, secure end of 500 ft of boom to river right, at/near Point A (46.29074, -119.47093). Extend boom downstream, securing it to the tip of the island in mid-channel, at/near Point B (46.29186, -119.47206). Use shoreside anchoring systems or existing features to secure boom to bank/facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-29.6L, Benton City boat launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 20 miles downstream of the Chandler Diversion Dam

**Resources at Risk:** Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

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<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
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<tr>
<td>Anchoring System(s)</td>
<td>6 Each</td>
<td>(anchor, lines, floats)</td>
</tr>
<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>500 Feet</td>
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</tr>
<tr>
<td>Bridle(s) - Towing</td>
<td>1 Each</td>
<td>(appropriately sized for boom)</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
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**Recommended Personnel**

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<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
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</table>
North Demoss Road at Songbird Island

YAK-26.9R Photo: From Yakima River, looking downstream towards island and side channel on river right. Photo taken in July.

**Site Contact**

**WSDOT**

Land/Property Contact: S Central Region Traffic Management/WSP District 3

509-577-1990

**Nearest Address**

101 Abby Ave

Benton City, WA 99320

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1St St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.
**Side Channel Near North River Road**

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>Deflection: Keep oil away from entrance to side channel on river left</th>
</tr>
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<tbody>
<tr>
<td>Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation</td>
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<tr>
<td>Staging Area: Remote: Stage at SA-YAK-29.6L, Benton City boat launch</td>
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<tr>
<td>Site Safety:</td>
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<tr>
<td>Watercourse: River - Below a Dam - Yakima River, 18.8 miles downstream of the Chandler Diversion Dam</td>
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<tr>
<td>Resources at Risk: Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</td>
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</tbody>
</table>

**Implementation:** Using workboat, secure end of 300 ft of boom to river left, at/near Point A (46.27297, -119.47878). Extend boom downstream, securing it to the tip of the island in mid-channel, at/near Point B (46.27378, -119.4785). Use shoreside anchoring systems or existing features to secure boom to bank/facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>2 Each</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>300 Feet</td>
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<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
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<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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**Recommended Personnel**

<table>
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<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
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</table>

Appendix 4A
Side Channel Near North River Road

YAK-28.1L Photo: From Yakima River, looking NW at river left and side channel entrance. Taken in early July.

Site Contact

No Information
Not Determined:

Nearest Address

101 Abby Ave
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.
Kiona Pump Station

**Position - Location:** 46° 15.598', -119° 28.337'  
46° 15' 35.9", -119° 28' 20.2"  
46.25996, -119.47228  
Benton City

**Strategy Objective:** Exclusion: Keep oil out of pump station on river right

**Implementation:** Secure end of 100 ft of boom to river right, on the upstream side of the pump station at/near Point A (46.260194, -119.472045). Extend boom downstream, securing it to the other end of the pump station, at/near Point B (46.260341, -119.472093). Use shoreside anchoring systems or existing features to secure boom to bank/facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Onsite: Stage onsite at pump station. Paved parking area and concrete roadway.

**Site Safety:** Water Hazard; Dangerous Animals/Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Contact the US Bureau of Reclamation at 509-406-3031 to coordinate access. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 17.75 miles downstream of the Chandler Diversion Dam

**Resources at Risk:** Public Health and Safety, Water Intakes

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Anchor - Danforth</td>
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<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>2 Each</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Boom - Sorbent</td>
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<td>Machete(s) - (or other vegetation cutting tool)</td>
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<td>Winch - Come-A-Long</td>
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**Recommended Personnel**

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<tr>
<td>1 Supervisor</td>
<td></td>
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</tbody>
</table>
**Kiona Pump Station**

**YAK-29.15R Photo:** View of the fish screen in front of the Kiona water intake, taken from the water

---

**Site Contact**

**Kennewick Irrigation District**  
Land/Property Contact: Water Intake User  
Kennewick, WA  
509-586-9111

---

**Nearest Address**

33386 N Demoss Rd  
Benton City, WA 99320

---

**Driving Directions**

1. Head west from West Pasco on I-182 E (US-12 E) (1.29 miles)  
2. At exit 12AB take ramp on the right to N 20th Ave / US-395 S toward Columbia Basin College / Kennewick / Pendleton (0.19 miles)  
3. At exit 12B keep left on N 20th Ave toward Columbia Basin College (0.46 miles)  
4. At exit 12B keep right on N 20th Ave toward Columbia Basin College (0.23 miles)  
5. Turn left on N 20th Ave (0.12 miles)  
6. Turn left onto ramp and go on I-182 W toward Richland (12.3 miles)  
7. Take ramp on the right and go on I-82 W toward Prosser / Yakima (5.94 miles)  
8. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)  
9. Turn right on WA-224 and immediately turn right on WA-224 (0.59 miles)  
10. Turn left on N Demoss Rd (0.18 miles)  
11. Take the next left into the Kiona Pump Station driveway.
Benton City Park

**Position - Location:**

<table>
<thead>
<tr>
<th>Site</th>
<th>Latitude</th>
<th>Longitude</th>
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</thead>
<tbody>
<tr>
<td>Benton City Park</td>
<td>46° 15.326', -119° 28.427'</td>
<td>46° 15' 19.5&quot;, -119° 28' 25.6&quot;</td>
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</tbody>
</table>

**Strategic Objective:**
Deflection: Deflect oil away from park shoreline on river left

**Implementation:**
Using workboat, secure end of 200 ft of boom to river left, at/near Point A (46.255328, -119.47413). Extend boom downstream, securing it mid-channel, at/near Point B (46.255874, -119.47386). Use shoreside anchoring systems or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:**
Onsite: Stage at SA-YAK-29.6L, Benton City Park

**Site Safety:**
Public use area; Water Hazard; Slips, Trips, Falls

**Field Notes:**
Launch onsite at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flows.

**Watercourse:**
River - Below a Dam - Yakima River, 17.35 miles downstream of Chandler Diversion Dam

**Resources at Risk:**
Public Recreation Site/Area, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>3 Each</td>
</tr>
<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>1 Each</td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
</tr>
</tbody>
</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Operator</td>
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<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Benton City Park

YAK-29.55L Photo: View of the shoreside anchor point A

Site Contact

WDFW Region 3 South Central
Primary Contact: Management agency for water access site
Yakima, WA 98902
509-575-2740

Nearest Address

101 Abby Ave
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.
Kiona Bridge at 1st Street  

**Position - Location:** 46° 15' 154", -119° 28.575'  
**Position - Location:** 46° 15' 9.3", -119° 28' 34.5"  
**Position - Location:** 46.25267, -119.47625  
Benton City

**Strategy Objective:** Collection : Collect oil moving downstream on the Yakima River on river right

**Implementation:** Using workboat, secure end of 500 ft of boom to river left at/near Point A (46.253026, -119.477342). Extend boom downstream, securing it at/near Point B (46.252686, -119.476217). Then extend remaining boom downstream, securing it on river right, under the Kiona Bridge, at/near Point C (46.252544, -119.475505). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at Point C.

**Staging Area:** Remote : Stage at SA-YAK-29.6L, the Benton City boat launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-29.6L, Benton City boat launch. Follow WSDOT guidelines for work zone traffic control during collection if need to stage vac truck roadside. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 17.1 miles downstream of the Chandler Diversion Dam

**Resources at Risk:** County Park, General Fish and Wildlife Resources, Recreational Shoreline Area, Sensitive Resources Nearby

**Recommended Equipment**
- 6 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 500 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Skimmer (appropriately sized) with Portable Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**
- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Kiona Bridge at 1st Street

YAK-29.8R Photo: View looking upstream from under the south end of the Kiona Bridge in Benton City

**Site Contact**

**WSDOT**
Land/Property Contact: S Central Region Traffic Management/WSP District 3
Union Gap, WA  98903  
509-577-1990

**Nearest Address**

101 Abby Ave  
Benton City, WA 99320

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.
### Side Channel Near West Old Inland Empire Hwy

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 16.185', -119° 30' 47.5&quot;</th>
<th>46.27180, -119.51320</th>
<th>Benton City</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Strategy Objective:</th>
<th>Deflection : Keep oil away from side channel on river left</th>
</tr>
</thead>
</table>

#### Implementation:
Using workboat, secure end of 100 ft of boom to river left at/near Point A (46.27197, -119.5131). Extend boom downstream, securing it to the tip of the island at/near Point B (46.27175, -119.513128). Then extend remaining boom downstream, securing it at/near Point C (46.271689, -119.513136). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

<table>
<thead>
<tr>
<th>Staging Area:</th>
<th>Remote : Stage at SA-YAK-29.6L, the Benton City boat launch</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Site Safety:</th>
<th>Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation</th>
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</table>

<table>
<thead>
<tr>
<th>Field Notes:</th>
<th>Launch at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flow.</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Watercourse:</th>
<th>River - Below a Dam - Yakima River, 14.7 miles downstream of the Chandler Diversion Dam</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Resources at Risk:</th>
<th>Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat</th>
</tr>
</thead>
</table>

#### Recommended Equipment

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

#### Recommended Personnel

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Side Channel Near West Old Inland Empire Hwy

YAK-32.2L Photo: From Yakima River, looking SE at river left. Side channel entrance is under large tree. Taken early July.

Site Contact

<table>
<thead>
<tr>
<th>No Information</th>
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</thead>
<tbody>
<tr>
<td>Not Determined</td>
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</tbody>
</table>

Nearest Address

| 101 Abby Ave |
| Benton City, WA 99320 |

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.
Benton Irrigation District Pump Station

**Position - Location:** 46° 16.500', -119° 31.051'

**Strategy Objective:** Exclusion: Keep oil out of fish screens and water intake pumps on river left at the Benton Irrigation District pumping facility

**Implementation:** Secure end of 200 ft of boom to river left, at/near Point A (46.275018, -119.517377). Extend boom downstream, securing it at the opposite end of the facility, at/near Point B (46.274709, -119.516965). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Onsite: Paved parking, with water, power, and bathroom inside pump station

**Site Safety:** Water Hazard; Slips, Trips, Falls

**Field Notes:** There is a notification strategy for the facility to close gates and shut off pumps but deploy boom regardless. Yakima River has extreme variability in seasonal flow

**Watercourse:** River - Below a Dam - Yakima River, 14.45 miles downstream of Chandler Diversion Dam

**Resources at Risk:** Fish Ladder(s), Pump Station, Sensitive Resources, Water Intakes

---

**Recommended Equipment**

- 2 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 1 Each Bolt Cutters
- 200 Feet Boom - B3 (River Boom) or equivalent
- 200 Feet Boom - Sorbent
- 2 Each Heaving Line(s)
- 200 Feet Line - 3/8” poly line
- 1 Each Winch - Come-A-Long

**Recommended Personnel**

- 2 Laborer
- 1 Supervisor
Benton Irrigation District Pump Station

YAK-32.45L Photo: View looking upstream taken from the front of the Benton Irrigation District pump house facility

**Site Contact**

**Benton Irrigation District**  
Primary Contact: Pump Station Manager  
Benton City, WA  
509-947-8908

**Nearest Address**

18402 W Old Inland Empire Highway  
Benton City, WA 99320

**Driving Directions**

1. Head north from West Pasco on N Road 68 toward Argent Rd (1.45 miles)
2. Bear right onto ramp and go on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
3. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
4. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
5. Turn right on 1st St (WA-224) (0.44 miles)
6. Continue on Babs Ave (WA-225) (0.47 miles)
7. Continue on 9th St (WA-225) (0.04 miles)
8. Turn left on Babs Ave (0.42 miles)
9. Bear right on 14th St (0.19 miles)
10. Turn left on N Kendall Rd NW (1.08 miles)
11. Turn left on W Old Inland Empire Hwy (1.4 miles) going past N. Whan Road to the first gravel drive on the right; follow gravel drive to the end
12. Finish at Benton Irrigation District Pump Station, 18402 W Old Inland Empire Highway, 99320
**Side Channel Near Kiona Canal**

**Position - Location:** 46° 16.596', -119° 31.672'  
46° 16' 35.8", -119° 31' 40.3"  
46.27660, -119.52786  
Benton City

**Strategy Objective:** Deflection : Keep oil away from entrance to channel on river left

**Implementation:** Using workboat, secure end of 600 ft of boom to shore on river left, at/near Point A (46.27689, -119.52897). Extend boom downstream, securing it on the south shore at the tip of the island, at/near Point B (46.76208, -119.52678.). Use shoreside anchoring systems or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote : Stage at SA-YAK-29.6L, the Benton City boat launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-29.6L, Benton City boat launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 14 miles downstream of the Chandler Diversion Dam

**Resources at Risk:** Backwater Habitat, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchoring System(s)</td>
<td>7 Each</td>
<td>(anchor, lines, floats)</td>
</tr>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>600 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

### Recommended Personnel

<table>
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<tr>
<th>Role</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Boat Operator</td>
<td>1</td>
</tr>
<tr>
<td>Laborer</td>
<td>3</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Side Channel Near Kiona Canal

YAK-32.9L Photo: From Yakima River, looking downstream towards river left at side channel and island. Taken in early July.

### Site Contact

**No Information**
Not Determined:

### Nearest Address

**101 Abby Ave**
Benton City, WA 99320

### Driving Directions

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK29.6L/BL-YAK-29.6L) Benton City Boat Launch**

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.
Just Upstream of the Chandler Power Plant

**Position - Location:** 46° 15.847', -119° 35.452'  
46° 15' 50.8", -119° 35' 27.1"  
46.26411, -119.59087  
Benton City

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river left

**Implementation:** Using hand launch workboat, secure end of 300 ft of boom mid-channel, at/near Point A (46.26369, -119.590937). Extend boom downstream, securing it on shore, on the upstream side of the boat launch area, at/near Point B (46.264487, -119.590962). Use shoreside anchoring systems or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at/near Point B, area is inaccessible for vac truck.

**Staging Area:** Onsite: Stage onsite at SA-YAK-35.95L, just upstream of the Chandler Power Plant

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch onsite at BL-YAK-35.95L, may need to hand launch depending on water level. Flat gravel road to shore. Depending on water level a small trailer may be usable, flat sandy bottom near shore. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 10.95 miles downstream of the Chandler Diversion Dam

**Resources at Risk:** General Fish and Wildlife Resources, Power Generation, Recreational Shoreline Area

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
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<tbody>
<tr>
<td>3 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Anchoring System(s)- Shoreside</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>2 Each</td>
<td>Heaving Line(s)</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Line - 3/8” poly line</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Skimmer (appropriately sized) with Portable Storage</td>
</tr>
<tr>
<td>1 Each</td>
<td>Winch - Come-A-Long</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - (hand-launch)</td>
</tr>
</tbody>
</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
</tr>
<tr>
<td>1</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
Just Upstream of the Chandler Power Plant

YAK-35.95L Photo: View of anchor point A for YAK-35.95L just upstream of the Chandler Power Plant

**Site Contact**

**US Bureau of Reclamation**  
Land/Property Contact: Yakima Field Office Manager  
Yakima, WA 98901-2058  
509-406-3031

**Nearest Address**

47400 W Old Inland Empire Hwy  
Benton City, WA 99320

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK35.95L/BL-YAK-35.95L) Upstream of Chandler Power Plant

1. Head west from West Pasco on I-82 W to Yakima  
2. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)  
3. Turn right on 1st St (WA-224) (0.44 miles)  
4. Continue on Babs Ave (WA-225) (0.47 miles)  
5. Continue on 9th St (WA-225) (0.04 miles)  
6. Turn left on Babs Ave (0.42 miles)  
7. Bear right on 14th St (0.19 miles)  
8. Turn left on N Kendall Rd NW (1.08 miles)  
9. Turn left on W Old Inland Empire Hwy (4.5 miles)  
10. Half a mile before 47400 W Old Inland Empire Hwy turn left on gravel drive for Chandler Power Plant. After 90 degree turn, take the 1st right on dirt track. Go straight until the track dead ends at a T intersection; turn left and head toward the river.  
11. Finish just up from the Chandler Power Plant on Old Inland Empire Hwy, Benton City, WA 99320
Side channel near W 119 Pr NW

**Position - Location:** 46° 13' 40.717" W, 46° 13' 50.6", -119° 40' 43.0" W, 46.23073, -119.67861, Prosser

**Strategy Objective:** Deflection: Keep oil away from entrance to side channel on river left

**Implementation:**
Using workboat, secure end of 200 ft of boom to shore on river left at/near Point A (46.23067, -119.67884). Extend boom downstream, across the backwater channel, securing it on shore on river left at/near Point B (46.76208, -119.67833). Use shoreside anchoring systems or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-46.5L, Prosser Wastewater Treatment Plant Boat Launch

**Site Safety:**
Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
Launch at BL-YAK-46.5L, Prosser Wastewater Treatment Plant Boat Launch. Call City of Prosser at 509-786-2332 to gain access. In low water conditions, may need to hand launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
River - Below a Dam - Yakima River, 5 miles downstream of the Chandler Diversion Dam

**Resources at Risk:**
Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**
- 2 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 200 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 200 Feet Line - 3/8” poly line
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Winch - Come-A-Long
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**
- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Side channel near W 119 Pr NW

YAK-41.9L Photo: From Yakima River, looking N downstream at river left. Side channel entrance is to the right of plastic chair. Taken early July.

Site Contact
City of Prosser
Primary Contact: City Dispatch (Wastewater Treatment Facility)
Prosser, WA 99350
509-786-2332

Nearest Address
999 Grande Rd
Prosser, WA 99350

Driving Directions
DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-46.5L/BL-YAK-46.5L) Prosser Wastewater Treatment Plant

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles), go across the bridge and turn left on canal road (0.15 miles) then take the first right just before the wastewater treatment plant. Follow the dirt track to the river (0.13 miles).
8. Finish at the boat ramp at the end. Address is 999 Grande Rd. Prosser, WA99350.
## Side Channel near Chandler Canal

**Position - Location:** 46° 13'.454', -119° 41'.716'  |  46° 13'.27.2", -119° 41'.42.9"  |  46.22423, -119.69526  |  Prosser

**Strategy Objective:** Deflection: Keep oil away from entrance to side channel on river left

**Implementation:** Using workboat, secure end of 300 ft of boom to shore on river left at/near Point A (46.2245, -119.69588). Extend boom downstream, to mid-channel, securing it off shore at/near Point B (46.22404, -119.69489). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: SA-YAK-46.5L, Prosser Wastewater Treatment Plant Boat Launch.

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-46.5L, Prosser Wastewater Treatment Plant Boat Launch. Call City of Prosser at 509-786-2332 to gain access. In low water conditions, may need to hand launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 4 miles downstream of the Prosser Diversion Dam

**Resources at Risk:** Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
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<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<td>Anchoring System(s)- Shoreside</td>
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<td>Boom - B3 (River Boom) or equivalent</td>
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<td>Bridle(s) - Towing (appropriately sized for boom)</td>
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<tr>
<td>Line - 3/8&quot; poly line</td>
<td>300 Feet</td>
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<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Side Channel near Chandler Canal

YAK-42.9L Photo: From Yakima River, looking downstream at side channel entrance on river left. Taken in early July.

Site Contact

City of Prosser
Primary Contact: City Dispatch (Wastewater Treatment Facility)
509-786-2332

Nearest Address

999 Grande Rd
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK46.5L/BL-YAK46.5L) Prosser Wastewater Treatment Plant

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right toward WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles), go across the bridge and turn left on canal road (0.15 miles) then take the first right just before the wastewater treatment plant. Follow the dirt track to the river (0.13 miles).
8. Finish at the boat ramp at the end. Address is 999 Grande Rd. Prosser, WA 99350.
Yakama Nation Fish Hatchery

**Position - Location:** 46° 12.827', -119° 45.552'  
46° 12' 49.6", -119° 45' 33.1"  
46.21378, -119.75920  
Prosser

**Strategy Objective:** Exclusion: Keep oil out of fish hatchery water intake on river left.

**Implementation:** Secure end of 100 ft of boom to shore on river left at/near Point A (46.21372, -119.759364). Extend boom downstream, across ditch, securing it on shore on river left at/near Point B (46.213835, -119.758995). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Onsite: Dirt/gravel road access to the river through hatchery property.

**Site Safety:** Water Hazard; Dangerous Animals/Snakes; Slips, Trips, Falls; Submerged Hazard; Uneven Ground; Heavy Vegetation

**Field Notes:** Call Yakama Nation Hatchery Manager at 509-945-5899 to gain access to hatchery property. Contact the Yakima Nation at 509-945-2939 if working on tribal land. Yakima River has extreme variability in seasonal flows.

**Watercourse:** River - Below a Dam - Yakima River, 0.7 miles below the Chandler Diversion Dam. Yakima River has extreme variability in seasonal flow.

**Resources at Risk:** Fish Hatchery

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor - Danforth</td>
<td>1 Each</td>
<td>(or other appropriate type)</td>
</tr>
<tr>
<td>Anchoring System(s)</td>
<td>2 Each</td>
<td>Shoreside</td>
</tr>
<tr>
<td>Boom - B2</td>
<td>100 Feet</td>
<td>(Contractor Boom) or equivalent</td>
</tr>
<tr>
<td>Boom - Sorbent</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Heaving Line(s)</td>
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<td></td>
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<tr>
<td>Line - 3/8” poly line</td>
<td>100 Feet</td>
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<tr>
<td>Machete(s)</td>
<td>1 Each</td>
<td>(or other vegetation cutting tool)</td>
</tr>
<tr>
<td>Winch - Come-A-Long</td>
<td>1 Each</td>
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**Recommended Personnel**

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
**Yakama Nation Fish Hatchery**

**Site Contact**

**Yakama Indian Nation Fish Hatchery**  
Land/Property Contact: Hatchery Managers  
509-945-5899

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
509-945-2939

**Nearest Address**

999 Grande Rd  
Prosser, WA 99350

---

**Driving Directions**

1. Head west from Richland go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
2. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
3. Turn left on Wine Country Rd (WA-22) (1.38 miles)
4. Turn right on 10th St (0.1 miles)
5. Turn right on Grant Ave (0.18 miles)
6. Turn right on Grande Rd (0.5 miles)
7. Drive toward the ENE until you reach the Yakama Nation Fish Hatchery, turn right into the facility and take the second gravel road on the right continue until you reach the river near 46.21372, -119.759364
### Wine Country Road Bridge

**Position - Location:** 46° 12.591', -119° 46.555'  
46° 12' 35.5", -119° 46' 33.3"  
46.20985, -119.77591  
Prosser

**Strategy Objective:** Deflection: Keep oil away from sensitive resources on river right

**Implementation:** Using workboat, secure end of 300 ft of boom to shore on river right, at the Wine Country Road Bridge, at/near Point A (46.20938, -119.77594). Extend boom downstream, securing it mid-channel, at/near Point B (46.21019, -119.77576). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-47.65R, Riverfront Park

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-47.65R, Riverfront Park Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 0.3 miles upstream of the Chandler Diversion Dam.

**Resources at Risk:** Economic Resource, Sensitive Resources

#### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchoring System(s)</td>
<td>4 Each</td>
<td>- (anchor, lines, floats)</td>
</tr>
<tr>
<td>Anchoring System(s)-</td>
<td>1 Each</td>
<td>Shoreside</td>
</tr>
<tr>
<td>Boom</td>
<td>300 Feet</td>
<td>- B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>Bridle(s) - Towing</td>
<td>1 Each</td>
<td>(appropriately sized for boom)</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
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#### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Wine Country Road Bridge

YAK-47.2R Photo: Looking NW from eastern side of bridge toward anchor point A.

**Site Contact**

**City of Prosser**  
Municipality (County/City): Parks and Recreation  
Prosser, WA 66350  
509-786-2332

**Nearest Address**

904 Sheridan Ave  
Prosser, WA 99350

**Driving Directions**

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-47.65R/BL-YAK-47.65R) Riverfront Park Boat Launch**

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)  
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)  
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)  
4. Turn left on Wine Country Rd (WA-22) (1.73 miles)  
5. Turn left on Wine Country Rd and immediately turn left on 6th St (0.12 miles)  
6. Make sharp right on Sheridan Ave (0.26 miles)  
7. Turn right into the boat launch parking area. Finish at Riverfront Park, 3rd St and Sheridan Ave, Prosser, WA 99350.
Riverfront Park boat launch

Position - Location: 46° 12.238', -119° 46.643'  46° 12' 14.3'', -119° 46' 38.6''  46.20396, -119.77738  Prosser

Strategy Objective: Collection : Collect oil moving downstream on the Yakima River at river right

Implementation: Using workboat, secure end of 600 ft of boom to river left at/near Point A (46.2029, -119.7786). Extend boom downstream, securing mid-channel, at/near Point B (46.203179, -119.777772). Then extend remaining boom downstream, securing it upstream of launch, at/near Point C (46.203941, -119.777126). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at Point C.

Staging Area:  Onsite : Stage at SA-YAK-47.65R, Riverfront Park

Site Safety:  Public Access; Boat/Vehicle/Pedestrian Traffic; Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes:  Launch onsite at BL-YAK-47.65R, Riverfront Park Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse:  River - Above a Dam - Yakima River, 0.75 miles above the Chandler Diversion Dam

Resources at Risk:  City Park, Recreational Use Area, Sensitive Resources

Recommended Equipment

- 7 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 600 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Riverfront Park boat launch

YAK-47.65R Photo: View of YAK-47.65R’s anchor point A next to the Boat Launch at Riverside Park

Site Contact

City of Prosser
Land/Property Contact: Parks and Recreation
Prosser, WA 66350
509-786-2332

Nearest Address

904 Sheridan Ave
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK47.65R/BL-YAK-47.65R) Riverfront Park Boath Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.73 miles)
5. Turn left on Wine Country Rd and immediately turn left on 6th St (0.12 miles)
6. Make sharp right on Sheridan Ave (0.26 miles)
7. Turn right into the boat launch parking area. Finish at Riverfront Park, 3rd St and Sheridan Ave, Prosser, WA 99350.
# Side Channel Inlet Near Euclid Bridge

**Position - Location:**

<table>
<thead>
<tr>
<th>Location</th>
<th>YAK-55.3M</th>
</tr>
</thead>
<tbody>
<tr>
<td>46° 13' 3.1&quot;, -119° 55' 12.9&quot;</td>
<td>46.21752, -119.92026</td>
</tr>
</tbody>
</table>

**Staging Area:** Remote: Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-59.8, Mabton Bridge Boat Launch. Yakima River has extremevariability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 2.9 miles above the Chandler Diversion Dam

**Resources at Risk:** Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering

## Implementation

Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.21763, -119.92041). Extend boom downstream, securing across the side channel, and securing it on river right at/near Point B (46.21748, -119.92008). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

## Staging Area

Remote: Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

## Site Safety

Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

## Field Notes

Launch at BL-YAK-59.8, Mabton Bridge Boat Launch. Yakima River has extreme variability in seasonal flow.

## Watercourse

River - Above a Dam - Yakima River, 2.9 miles above the Chandler Diversion Dam

## Resources at Risk

Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering

## Recommended Equipment

1. Each Anchoring System(s) - (anchor, lines, floats)
2. Each Anchoring System(s) - Shoreside
3. 100 Feet Boom - B3 (River Boom) or equivalent
4. 1 Each Bridle(s) - Towing (appropriately sized for boom)
5. 1 Each Machete(s) - (or other vegetation cutting tool)
6. 1 Each Workboat(s) - of adequate size for type and amount of boom

## Recommended Personnel

1. Boat Operator
2. Laborer
3. Supervisor
Side Channel Inlet Near Euclid Bridge

YAK-55.3M Photo: From Yakima River, looking SE at river right. Entrance to side channel is behind sandy slope. Taken in early July.

Site Contact

No Information
Not Determined:

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA  98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK--59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.
### Side Channel Near Euclid Bridge

**YAK-55.4R**

| **Position - Location:** | 46° 13.129', -119° 55.342' | 46° 13' 7.7", -119° 55' 20.5" | 46.21881, -119.92236 | Mabton |

**Strategy Objective:** Deflection: Deflect oil away from entrance to side channel on river right

**Implementation:** Using workboat, secure end of 300 ft of boom to shore on river right upstream of side channel, at/near Point A (46.219, -119.92284). Extend boom downstream, securing it to the left side of the island at/near Point B (46.2185, -119.92189). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-59.8L, Mabton Bridge Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 8.5 miles upstream of the Chandler Diversion Dam

**Resources at Risk:** Backwater Habitat, Bird Habitat, Migratory Bird Populations, Waterfowl and Salmonid Concentrations and Habitat, Wintering

#### Recommended Equipment

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
</tr>
<tr>
<td>2 Each</td>
<td>Anchoring System(s) - Shoreside</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>1 Each</td>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
</tr>
</tbody>
</table>

#### Recommended Personnel

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<thead>
<tr>
<th>Quantity</th>
<th>Role</th>
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<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
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<tr>
<td>2</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
Side Channel Near Euclid Bridge

YAK-55.4R Photo: From Yakima River, looking S at side channel on river right. Entrance is to the right of large tree. Photo taken early July.

**Site Contact**

**Nearest Address**

6901 Mabton-Sunnyside Rd
Mabton, WA  98935

**Driving Directions**

1. Head west from Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on WA-22 (Wine Country Rd) (0.32 miles)
5. Turn left at Wine Country Rd / Chapman Ln to stay on WA-22 toward WA-221 / Mabton / Paterson (13.33 miles)
6. Make sharp right on Reservation St (WA-241) (0.23 miles)
7. Continue on 1st Ave (WA-241) (0.26 miles)
8. Continue on Mabton-Sunnyside Rd (WA-241) (0.96 miles)
9. Turn left into the parking lot. Finish at 6901 Mabton-Sunnyside Rd, 98935, on the left.
## Mabton Bridge boat launch

### Position - Location:

<table>
<thead>
<tr>
<th>Location</th>
<th>Coordinates</th>
<th>Mabton</th>
</tr>
</thead>
<tbody>
<tr>
<td>YAK-59.8L</td>
<td>46° 13.911', -119° 59.997&quot;</td>
<td>46° 13' 54.7&quot;, -119° 59' 59.8&quot;</td>
</tr>
</tbody>
</table>

### Strategy Objective:

Collection: Collect oil moving downstream on the Yakima River on river left.

### Implementation:

Using workboat, secure end of 700 ft of boom to river right at/near Point A (46.23097, -120.0021). Extend boom downstream, securing mid-channel, at/near Point B (46.2315, -120.0017). Then extend remaining boom downstream, securing it upstream of the boat launch, at/near Point C (46.23203, -120.0). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at Point C.

### Staging Area:

Onsite: SA-YAK-59.8L, Mabton Bridge Boat Launch.

### Site Safety:

Public Access Site; Boat/Vehicle/Pedestrian Traffic; Water Hazard; Slips, Trips, Falls; Heavy Vegetation.

### Field Notes:

Launch onsite at BL-YAK-59.8L, Mabton Bridge Boat Launch. Yakima River has extreme variability in seasonal flows.

### Watercourse:

River - Above a Dam - Yakima River, 12.9 miles upstream of the Chandler Diversion Dam.

### Resources at Risk:

Boat Launch/Ramp, Great Blue Heron Rookeries, Recreational Fishery, Sensitive Resources, State Protected Area/Lands, Waterfowl and Salmonid Concentrations and Habitat.

### Recommended Equipment

- 9 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 700 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
**Site Contact**

**WDFW Region 3 South Central**  
Land/Property Contact: Management agency for water access site  
509-575-2740  

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
509-945-2939

**Nearest Address**

6901 Mabton-Sunnyside Rd  
Mabton, WA 98935

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch  

1. Head west from West Pasco on I-182  
2. After ~5.5 mi take ramp onto Interstate 82 heading west towards Prosser/Yakima  
3. After ~20.0 mi take ramp at Exit 82 (WA-22)  
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)  
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221  
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)  
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton  
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)  
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.
# Mabton West Lateral Drain

**Position - Location:** 46° 13.922', -120° 0.494'  
46° 13' 55.3", -120° 0' 29.6"  
46.23203, -120.00823  
Mabton

**Strategy Objective:** Collect oil moving downstream on Mabton West Lateral Drain before it enters the Yakima River

**Implementation:**
Using workboat, secure end of 100 ft of boom to bank on river right at/near Point A (46.23207, -120.00855.). Extend boom downstream across the ditch, securing it at/near Point B (46.2319, -120.00824.). Use shoreside anchoring systems or existing features to secure boom to banks. Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection.

**Staging Area:** Remote: Stage at SA-YAK-59.8L Mabton Bridge

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Launch at BL-YAK-59.8L Mabton Bridge Boat Launch, single gravel ramp, 4 degree grade. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 13.3 miles upstream of the Chandler Diversion Dam

**Resources at Risk:** Bird Habitat, Creek Habitat, Great Blue Heron Rookeries, Sensitive Resources Nearby

## Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Boom - Sorbent</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Skimmer (appropriately sized) with Portable Storage</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
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## Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
<td>1</td>
</tr>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Mabton West Lateral Drain

YAK-60.2R Photo: From Yakima River, looking SW at river right at side channel entrance.

Site Contact

Yakama Nation  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939

Nearest Address

6901 Mabton-Sunnyside Rd  
Mabton, WA 98935

Driving Directions

DRIVING DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-59.8L/BL-YAK-59.8L)

1. Head west from West Pasco on I-182  
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima  
3. After ~20.0 mi take ramp at Exit 82 (WA-22)  
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)  
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221  
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)  
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton  
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)  
9. After ~1.0 mi (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.
Horseshoe Lake Entrance

**Position - Location:** 46° 14.047', -120° .766'  
46° 14' 2.8", -120° 0' 46.0"  
46.23412, -120.01277  
Mabton

**Strategy Objective:** Exclusion: Keep oil out of the entrance to Horseshoe Lake on river right

**Implementation:** Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.23406, -120.01284). Extend boom downstream, across the entrance to Horseshoe Lake, securing it on river right at/near Point B (46.234038, -120.012741). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-59.8L, Mabton Bridge Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939. Site is on Tribal Lands. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 43.4 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Bird Habitat, Great Blue Heron Rookeries, Wintering Waterfowl

**Recommended Equipment**
- 2 Each Anchoring System(s)- Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 100 Feet Line - 3/8” poly line
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**
- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Horseshoe Lake Entrance

YAK-60.45R Photo: On Yakima River looking SW to strategy location on river right.

Site Contact

Yakama Nation
Primary Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

Nearest Address

6901 Mabton-Sunnyside Rd
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.
### Sunnyside Wildlife Recreation Area Canal

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 14.307', -120° 1.453'</th>
<th>46° 14' 18.4&quot;, -120° 1' 27.2&quot;</th>
<th>46.23845, -120.02421</th>
<th>Mabton</th>
</tr>
</thead>
</table>

### Site Safety:
- Slips, Trips, Falls; Water Hazard; Snakes/Wildlife; Heavy Vegetation

### Staging Area:
- Remote: Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

### Watercourse:
- River - Below a Dam - Yakima River, 42.7 miles downstream of the Sunnyside Diversion Dam

### Resources at Risk:
- Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations

### Implementation:
Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.23846, -120.02429). Extend boom downstream, across the canal, securing it on river left at/near Point B (46.238473, -120.024198). Back hard boom with sorbent. If oil collecting beyond sorbent’s capacity, use skimmer/storage for collection. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

### Staging Area:
- Remote: Stage at SA-YAK-59.8L, Mabton Bridge Boat Launch

### Site Safety:
- Slips, Trips, Falls; Water Hazard; Snakes/Wildlife; Heavy Vegetation

### Field Notes:
Launch at BL-YAK-59.8L, Mabton Bridge Boat Launch. Yakima River has extreme variability in seasonal flows.

### Resources at Risk:
Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations

#### Recommended Equipment
- Each Anchoring System(s)- Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 1 Each Bridle(s)- Towing (appropriately sized for boom)
- 1 Each Machete(s)- (or other vegetation cutting tool)
- 1 Each Skimmer (appropriately sized) with Portable Storage
- 1 Each Workboat(s)- of adequate size for type and amount of boom

#### Recommended Personnel
- 1 Boat Operator
- 2 Laborer
- 1 Supervisor

---

**Appendix 4A**
Sunnyside Wildlife Recreation Area Canal

YAK-61.2L Photo: On Yakima River looking NNW to strategy location on river left.

**Site Contact**

**Yakama Nation**
Tribal Contact: Environmental Management Program
509-945-2939

**Nearest Address**
6901 Mabton-Sunnyside Rd
Mabton, WA 98935

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK--59.8L/BL-YAK-59.8L) Mabton Bridge Boa Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.
**Horseshoe Pond Drain**

**Position - Location:**
- 46° 14.862', -120° 3.695'
- 46° 14' 51.7", -120° 3' 41.7"  
  46.2477, -120.06158

**Strategy Objective:**
Collect oil moving downstream on the canal from Horseshoe Pond to the Yakima River

**Implementation:**
Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.2478, -120.0617). Extend boom downstream, across the canal coming out of the Horseshoe Pond, securing it on river left at/near Point B (46.24778, -120.06155). Back hard boom with sorbent. If oil collecting beyond sorbent’s capacity, use skimmer/storage for collection. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:**
Remote: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

**Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation**

**Field Notes:**
Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
River - Below a Dam - Yakima River, 40.05 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:**
Backwater Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl Concentrations

---

### Recommended Equipment

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<th>Item</th>
<th>Quantity</th>
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<tr>
<td>2 Each Anchoring System(s)- Shoreside</td>
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</tr>
<tr>
<td>100 Feet Boom - B3 (River Boom) or equivalent</td>
<td></td>
</tr>
<tr>
<td>100 Feet Boom - Sorbent</td>
<td></td>
</tr>
<tr>
<td>1 Each Bridle(s) - Towing (appropriately sized for boom)</td>
<td></td>
</tr>
<tr>
<td>1 Each Machete(s) - (or other vegetation cutting tool)</td>
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</tr>
<tr>
<td>1 Each Skimmer (appropriately sized) with Portable Storage</td>
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</tr>
<tr>
<td>1 Each Workboat(s) - of adequate size for type and amount of boom</td>
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### Recommended Personnel

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<tbody>
<tr>
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<tr>
<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</table>
Horseshoe Pond Drain

YAK-63.8L Photo: On Yakima River looking north to strategy location on river left.

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
### Bounds Pond Canal

**Position - Location:** 46° 15.136', -120° 4.546'  
46° 15' 8.1", -120° 4' 32.7"  
46.25226, -120.07576  
Mabton

**Strategy Objective:** Collection: Collect oil moving downstream on the canal between Bounds Pond and the Yakima River.

**Implementation:** Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.25221, -120.07558). Extend boom downstream, across the canal coming out of the Bounds Pond, securing it on river left at/near Point B (46.25206, -120.07558). Back hard boom with sorbent. If oil collecting beyond sorbent’s capacity, use skimmer/storage for collection. Use shoreside anchoring system or existing features to secure boom to bank. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals (snakes); Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 38.65 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Bird Habitat, Freshwater Wildlife, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

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<th>Item</th>
<th>Description</th>
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<tr>
<td>1 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>2 Each</td>
<td>Anchoring System(s) - Shoreside</td>
</tr>
<tr>
<td>100 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
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<td>100 Feet</td>
<td>Boom - Sorbent</td>
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<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>1 Each</td>
<td>Skimmer (appropriately sized) with Portable Storage</td>
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<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
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### Recommended Personnel

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<tr>
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<tbody>
<tr>
<td>1 Boat Operator</td>
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<tr>
<td>2 Laborer</td>
</tr>
<tr>
<td>1 Supervisor</td>
</tr>
</tbody>
</table>
YAK-65.2L Photo: On Yakima River looking SE to strategy location on river left.

**Site Contact**

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
509-945-2939

**Nearest Address**

119 Florence Road  
Mabton, WA 98935

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
Unnamed Pond Entrance

Position - Location: 46° 15.329', -120° 5.113'  46° 15' 19.8", -120° 5' 6.8"  46.25549, -120.08522

Strategy Objective: Exclusion: Keep oil out of entrance to unnamed pond on river left

Implementation: Using workboat, secure end of 100 ft of boom to river left at/near Point A (46.2554, -120.08526). Extend boom downstream, securing it inside entrance to pond, at/near Point B (46.25546, -120.024198). Then extend remaining boom downstream, securing it to the opposite side of the entrance, at/near Point C (46.25556, -120.08512). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals/Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939. Launch is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 38.15 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

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<td>Anchor(s)</td>
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<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>Anchor System(s)- Shoreside</td>
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<td>Boom - B3 (River Boom) or equivalent</td>
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<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
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<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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Recommended Personnel

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<tbody>
<tr>
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<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
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</tr>
</tbody>
</table>
YAK-65.7L Photo: View of the entrance to the pond where YAK-65.7L is to be deployed

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
# Bond Road Primitive Boat Launch.

**Position - Location:** 46° 14.572', -120° 4.981'  
46° 14' 34.3", -120° 4' 58.9"  
46.24287, -120.08302  
Mabton

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river right

**Implementation:** Using workboat, secure end of 600 ft of boom to river left at/near Point A (46.24395, -120.08195). Extend boom downstream, securing it mid-channel, at/near Point B (46.24377, -120.08258). Then extend remaining boom downstream, securing to launch area, at/near Point C (46.24283, -120.08337). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at/near Point C.

**Staging Area:** Onsite: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 37.05 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat

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### Recommended Equipment

- **7** Each Anchoring System(s) - (anchor, lines, floats)
- **2** Each Anchoring System(s)- Shoreside
- **600** Feet Boom - B3 (River Boom) or equivalent
- **1** Each Bridle(s) - Towing (appropriately sized for boom)
- **1** Each Machete(s) - (or other vegetation cutting tool)
- **1** Each Skimmer (appropriately sized) with Portable Storage
- **1** Each Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

- **1** Boat Operator
- **3** Laborer
- **1** Supervisor
YAK-66.8R Photo: View of YAK-66.8R anchor A and upstream at the Bond St primitive boat launch

**Site Contact**

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939

**Nearest Address**

Bond Rd  
Mabton, WA 98935

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182  
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima  
3. After ~20.0 mi take ramp at Exit B2 (WA-22)  
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)  
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221  
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks  
7. After ~0.6 mi, road will curve to the left  
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
Backwater Near Bond Road Primitive Boat Launch

**Position - Location:**
46° 14.615', -120° 4.982'  
46° 14' 36.9", -120° 4' 58.9"  
46.24358, -120.08304  
Mabton

**Strategy Objective:**
Exclusion: Keep oil out of entrance to backwater area on river right

**Implementation:**
Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.243758, -120.08318). Extend boom downstream, across the three channels, securing it on river right at/near Point B (46.24352, -120.083309). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:**
Remote: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch

**Site Safety:**
Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
River - Below a Dam - Yakima River, 37 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:**
Backwater Habitat, Great Blue Heron Rookeries, Sensitive Resources, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat, Wetland Habitat

**Recommended Equipment**

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<tr>
<td>2 Each</td>
<td>Anchoring System(s)</td>
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<tr>
<td>100 Feet</td>
<td>Boom</td>
<td>B3 (River Boom) or equivalent</td>
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<tr>
<td>1 Each</td>
<td>Bridle(s)</td>
<td>Towing (appropriately sized for boom)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s)</td>
<td>(or other vegetation cutting tool)</td>
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<tr>
<td>1 Each</td>
<td>Workboat(s)</td>
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<td>Laborer</td>
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<tr>
<td>Supervisor</td>
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Backwater Near Bond Road Primitive Boat Launch

YAK-66.85R Photo: View of the back water entrance by Bond Rd Boat Launch

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
### Backwater area downstream of South Drain

**Position - Location:** 46° 15’ 22.4", -120° 6’ 14.5"  
46° 15’ 0R, -120° 10.403  
YAK-69.0R  
Mabton

**Strategy Objective:** Exclusion: Keep oil out of the backwater area downstream of South Drain on river right

**Implementation:** Using workboat, secure end of 200 ft of boom to bank on river right at/near Point A (46.2563, -120.10443). Extend boom downstream across backwater channel, securing it mid-channel at/near Point B (46.2562, -120.1041). (Then extend remaining boom downstream, securing it at/near Point C (46.256005, -120.103976.). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 22.1 miles upstream of the Chandler Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
<td>Anchoring System(s)</td>
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<tr>
<td>Anchoring System(s)-</td>
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<tr>
<td>Boom - B3 (River Boom)</td>
<td>200 Feet</td>
<td>or equivalent</td>
</tr>
<tr>
<td>Bridle(s) - Towing</td>
<td>1 Each</td>
<td>(appropriately sized for boom)</td>
</tr>
<tr>
<td>Machete(s) -</td>
<td>1 Each</td>
<td>(or other vegetation cutting tool)</td>
</tr>
<tr>
<td>Workboat(s) -</td>
<td>1 Each</td>
<td>(adequate size for type and amount of boom)</td>
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### Recommended Personnel

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<th>Role</th>
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<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Backwater area downstream of South Drain

YAK-69.0R Photo: View looking downstream at the opening of the backwater channel downstream of the South Drain

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
Toppenish, WA  98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA  98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
## South Drain

**Position - Location:** 46° 15.14', -120° 6.431'  
46° 15' 30.9", -120° 6' 25.9"  
46.25857, -120.10719  
Mabton

**Strategy Objective:** Collection: Collect oil moving downstream on South Drain before it enters the Yakima River

**Implementation:** Using workboat, secure end of 100 ft of boom to bank on river right at/near Point A (46.258557, -120.107347). Extend boom downstream across the ditch, securing it at/near Point B (46.258454, -120.10708). Use shoreside anchoring systems or existing feature to secure boom to banks. Back hard boom with sorbent. If oil collecting beyond sorbent's capacity, use skimmer/storage for collection.

**Staging Area:** Remote: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 22.4 miles upstream of the Chandler Diversion Dam

**Resources at Risk:** Creek Habitat, Great Blue Heron Rookeries, Riparian Area, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

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<th>Item</th>
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<td>1 Each Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>2 Each Anchoring System(s)- Shoreside</td>
<td></td>
</tr>
<tr>
<td>100 Feet Boom - B3 (River Boom) or equivalent</td>
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</tr>
<tr>
<td>100 Feet Boom - Sorbent</td>
<td></td>
</tr>
<tr>
<td>1 Each Bridle(s) - Towing (appropriately sized for boom)</td>
<td></td>
</tr>
<tr>
<td>1 Each Machete(s) - (or other vegetation cutting tool)</td>
<td></td>
</tr>
<tr>
<td>1 Each Skimmer (appropriately sized) with Portable Storage</td>
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</tr>
<tr>
<td>1 Each Workboat(s) - of adequate size for type and amount of boom</td>
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### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tr>
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<td>2 Laborer</td>
<td></td>
</tr>
<tr>
<td>1 Supervisor</td>
<td></td>
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</tbody>
</table>
YAK-69.3R Photo: Looking downstream at the outlet of South Drain where YAK-69.3R is to be deployed

**Site Contact**

**Yakama Nation**
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

**Nearest Address**
119 Florence Road
Mabton, WA 98935

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
### Satus Creek

**Position - Location:** 46° 15.682', -120° 6.644'  
46° 15' 40.9", -120° 6' 38.7"  
46.26137, -120.11074  

**Strategy Objective:** Collection: Collect oil moving downstream on Satus Creek before entering the Yakima River on river right

**Implementation:** Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.261682, -120.111219). Extend boom downstream, across the Satus Creek, securing it on river right at/near Point B (46.26123, -120.110772). Back hard boom with sorbent. If oil collecting beyond sorbent’s capacity, use skimmer/storage for collection. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch.

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls

**Field Notes:** Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 34.35 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Creek Habitat, Great Blue Heron Rookeries, Riparian Area, Waterfowl and Salmonid Concentrations and Habitat

---

**Recommended Equipment**

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<tr>
<th>Item</th>
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<tr>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
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</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
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<tr>
<td>Boom - Sorbent</td>
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<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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**Recommended Personnel**

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<tr>
<td>Boat Operator</td>
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<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
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</table>
Satus Creek

YAK-69.5R Photo: View of the mouth of Satus Creek from downstream on the Yakima River

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program

Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
## South Emerald Road Backwater Area

### Position - Location:
- 46° 15.856', -120° 6.233'
- 46° 15' 51.4", -120° 6' 14.0"
- 46.26427, -120.10388
- Mabton

### Strategy Objective:
Exclusion: Keep oil away from entrance to side channel on river left

### Implementation:
Using workboat, secure end of 300 ft of boom to river left at/near Point A (46.264394, -120.103368). Extend boom downstream in a chevron formation, securing it mid-channel, at/near Point B (46.264153, -120.103862). Then extend remaining boom downstream, securing it at/near Point C (46.26428, -120.10439). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

### Staging Area:
Remote: Stage at SA-YAK-66.8R, Bond Road Primitive Boat Launch

### Site Safety:
- Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

### Field Notes:
Launch at BL-YAK-66.8R; Bond Road Primitive Boat Launch. Contact the Yakima Nation at 509-945-2939 launch and strategy are on tribal land. Yakima River has extreme variability in seasonal flow.

### Watercourse:
River - Below a Dam - Yakima River, 33.6 miles downstream of the Sunnyside Diversion Dam

### Resources at Risk:
- Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
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<tr>
<th>Item</th>
<th>Quantity</th>
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<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
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<td>Bridle(s) - Towing (appropriately sized for boom)</td>
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<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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### Recommended Personnel

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<tbody>
<tr>
<td>Boat Operator</td>
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<td>Laborer</td>
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<tr>
<td>Supervisor</td>
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</table>
South Emerald Road Backwater Area

**YAK-70.25L Photo:** Downstream view of backwater channel on river left where YAK-70.25L is to be deployed

### Site Contact

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939

### Nearest Address

119 Florence Road  
Mabton, WA 98935

### Driving Directions

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch**

1. Head west from West Pasco on I-182  
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima  
3. After ~20.0 mi take ramp at Exit 82 (WA-22)  
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)  
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221  
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks  
7. After ~0.6 mi, road will curve to the left.  
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
Emerald Road Backwater Area

Position - Location: 46° 17.819', -120° 5.981'

Strategy Objective: Exclusion: Keep oil away from entrance to backwater area on river left

Implementation: Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.297138, -120.099841). Extend boom downstream, across entrance to backwater area, securing it on river left at/near Point B (46.297054, -120.099431). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote: Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at YAK-82.8L, Granger Public Works Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 28.95 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Emerald Road Backwater Area

YAK-74.9L Photo: View looking into the mouth of the backwater channel near Emerald Road

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

City of Granger
Secondary Contact: Public Works
509-854-2770

Nearest Address
500 East A Street
Granger, WA 98932

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
Lower Yakima River GRP

Coulee Drain and Backwater Area

**Position - Location:** 46° 17.785', -120° 7.510'  
46° 17' 47.1", -120° 7' 30.6"  
46.2964, -120.12516

**Staging Area:** Remote: Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Implementation:** Using workboat, secure end of 100 ft of boom to bank on the left side of Coulee Drain at/near Point A (46.296449, -120.125474). Extend boom across the drain, securing it at/near Point B (46.296292, -120.125094.). Then extend remaining boom across the backwater channel or river right, securing it at/near Point C (46.296417, -120.124782.). Back hard boom with sorbent. If oil collecting beyond sorbent’s capacity, use skimmer/storage for collection. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at YAK-82.8L, Granger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 26.8 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

- 3 Each Anchoring Post(s) - (shoreside)
- 2 Each Anchoring System(s) - (anchor, lines, floats)
- 200 Feet Boom - B3 (River Boom) or equivalent
- 200 Feet Boom - Sorbent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor

---

Appendix 4A
Coulee Drain and Backwater Area

YAK-77.05R Photo: View of the Coulee Drain outlet with an inlet to a backwater area

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

City of Granger
Secondary Contact: Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BLYAK-82.8L Granger Public Works Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
## Satus Longhouse Road backwater area

### Position - Location

<table>
<thead>
<tr>
<th>Lower Yakima River GRP</th>
<th>YAK-77.5R</th>
</tr>
</thead>
<tbody>
<tr>
<td>46° 18.279', -120° 7.787'</td>
<td>46° 18' 16.7&quot;, -120° 7' 47.2&quot;</td>
</tr>
<tr>
<td>46.30465, -120.12979</td>
<td>Granger</td>
</tr>
</tbody>
</table>

### Strategy Objective

Exclusion: Keep oil away from entrance to backwater area on river right

### Implementation

Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.304762, -120.129927). Extend boom downstream, across entrance to backwater area, securing it on river right at/near Point B (46.304522, -120.129838). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

### Staging Area

Remote: Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

### Site Safety

Water Hazard; Large Woody Debris; Dangerous Animals/Snakes; Slips, Trips, Falls; Heavy Vegetation

### Field Notes

Launch at YAK-82.8L, Granger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

### Watercourse

River - Below a Dam - Yakima River, 26.35 miles downstream of the Sunnyside Diversion Dam

### Resources at Risk

Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Satus Longhouse Road backwater area

YAK-77.5R Photo: Slightly upstream view of the entrance to the Satus Longhouse Road backwater area where YAK-77.5R is to be deployed

**Site Contact**

**Yakama Nation**
Tribal Contact: Environmental Management Program
509-945-2939

**City of Granger**
Secondary Contact: Public Works
509-854-2770

**Nearest Address**

500 East A Street
Granger, WA 98932

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
# 3073 Emerald Road Backwater Area

**Position - Location:** 46° 18.853’ , -120° 8.072’  
46° 18’ 51.2” , -120° 8’ 4.3’’  
46.31422, -120.13454  
Granger  

**Strategy Objective:** Deflection: Keep oil away from entrance to backwater area on river left  

**Implementation:** Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.314524, -120.134775). Extend boom downstream, across entrance to backwater area, securing it mid-channel at/near Point B (46.314016, -120.1345). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-82.8L, Granger Public Works Boat Launch.

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation.

**Field Notes:** Launch at YAK-82.8L, Granger Public Works Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 25.85 downstream of the Sunnyside Diversion Dam.

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat.

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>3 Each</td>
</tr>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>1 Each</td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
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</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
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</tr>
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**Recommended Personnel**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Boat Operator</td>
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<tr>
<td>Laborer</td>
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<tr>
<td>Supervisor</td>
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</table>
3073 Emerald Road Backwater Area

YAK-78.0L Photo: View of the shoreline where YAK-78.0L is to be anchored

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

City of Granger
Secondary Contact: Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
### Toppenish Creek and Chausee Rd Backwater Area

#### Position - Location:

| YAK-80.55R | 46° 19' 15.0", -120° 10.106' | 46° 19' 27.0", -120° 10' 6.3" | 46.32417, -120.16843 |

#### Strategy Objective:
Exclusion: Keep oil away from entrance to backwater area on river right

#### Implementation:
Using workboat, secure end of 200 ft of boom to river right at/near Point A (46.324255, -120.168878). Extend boom downstream in a chevron formation, securing it at/near Point B (46.323983, -120.16876). Then extend remaining boom downstream, securing it at/near Point C (46.347986, -120.168328). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

#### Staging Area:
Remote: Stage at SA-YAK-82.8L, Grainger Public Works Boat Launch

#### Site Safety:
Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

#### Field Notes:
Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

#### Watercourse:
River - Below a Dam - Yakima River, 23.3 miles downstream of the Sunnyside Diversion Dam

#### Resources at Risk:
Backwater Habitat, Creek Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

- **Recommended Personnel**
  - 1 Boat Operator
  - 2 Laborer
  - 1 Supervisor

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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<tr>
<td>Anchoring System(s) - Shoreside</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
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</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
</tr>
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</table>
YAK-80.55R Photo: Downstream view of the two channels leading to backwater habitat on river right, where YAK-80.55R is to be deployed

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

City of Granger
Secondary Contact: Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate. Finish at 500 East A Street, 98932, on the left
Granger Public Works Boat Launch

Position - Location: 46° 20.144', -120° 11.747' 46° 20’ 8.6", -120° 11' 44.8" 46.33573, -120.19578 Granger

Strategy Objective: Collection: Collect oil moving downstream on the Yakima River or downstream on the Yakima River or downstream on canal on river

Implementation: Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.33612, -120.19686). Extend boom downstream, securing by launch at/near Point B (46.3354, -120.1957). Then extend remaining boom upstream across canal, securing it at/near Point C (45.33573, -120.19578). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use vac truck or skimmer/storage to collect oil at/near Point B.

Staging Area: Onsite: Stage at SA-YAK-82.8L, Grainger Public Works Boat Launch

Site Safety: Heavy Equipment; Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 21.05 miles below the Sunnyside Diversion Dam

Resources at Risk: Boat Launch/Ramp, Economic Resource, Great Blue Heron Rookeries, Recreational Fishery, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

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<td>Boom - B3 (River Boom) or equivalent</td>
<td>500 Feet</td>
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<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
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<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>Vac Truck or Skimmer and Storage</td>
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<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
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Recommended Personnel

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<tr>
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<tr>
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<td>Laborer</td>
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<tr>
<td>Supervisor</td>
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</table>
Granger Public Works Boat Launch

YAK-82.8L Photo: View of collection area for YAK-82.8L just upstream of the Granger Public Works boat launch

**Site Contact**

**City of Granger**
Land/Property Contact: Public Works
509-854-2770

**Yakama Nation**
Tribal Contact: Environmental Management Program
509-945-2939

**Nearest Address**

500 East A Street
Granger, WA 98932

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
Connie Road Backwater Area North

Position - Location: 46° 20.878', -120° 12.802'  46° 20' 52.7", -120° 12' 48.1"  46.34797, -120.21336  Granger

Strategy Objective: Exclusion: Keep oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 300 ft of boom to river right at/near Point A (46.3481, -120.214). Extend boom downstream across entrance to backwater area, securing it away from any large woody debris, at/near Point B (46.34812, -120.21369). Then extend remaining boom downstream, securing it at/near Point C (46.34799, -120.21343). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote: Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

Site Safety: Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 19.75 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

- 3 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 300 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Connie Road Backwater Area North

YAK-84.1R Photo: Downstream view of the backwater channel on river left where YAK-84.1R is to be deployed as well as the main channel to river left

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

City of Granger
Secondary Contact: Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
Connie Road Backwater Area

**Position - Location:** 46° 21.253', -120° 13.439'  
46° 21' 15.2", -120° 13' 26.3"  
46.35421, -120.22398  
Granger

**Strategy Objective:** Exclusion: Keep oil away from entrance to backwater area on river right

**Implementation:** Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.354279, -120.223741). Extend boom downstream across entrance to backwater area, securing it on river right at/near Point B (46.354053, -120.224097). Back boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 19.25 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

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<th>Quantity</th>
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<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
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<tr>
<td>Boom - Sorbent</td>
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<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
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<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>Supervisor</td>
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Connie Road Backwater Area

YAK-84.6R Photo: View of the backwater area where YAK-84.6R should be deployed

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

City of Granger
Secondary Contact: Public Works
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
Appendix 4A

**Backwater Area Near 700 Ruehl Way**  
**YAK-85.1L**

**Position - Location:**  
46° 21.278', -120° 12.808'  
46° 21’ 16.7”, -120° 12’ 48.5”  
46.35464, -120.21346  
Granger

**Strategy Objective:** Deflection : Deflect oil away from entrance to backwater area on river left

**Implementation:**  
Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.354575, -120.213085). Extend boom downstream across entrance to backwater area, securing it mid-river at/near Point B (46.354588, -120.213863). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote : Stage at SA-YAK-82.8L, Granger Public Works Boat Launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch onsite at BL-YAK-82.8L, Grainger Public Works Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 18.75 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

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<td>Laborer</td>
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<tr>
<td>Supervisor</td>
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</table>
YAK-85.1L Photo: View of the backwater channel where YAK-85.1L is to be deployed

### Site Contact

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
509-945-2939

**City of Granger**  
Secondary Contact: Public Works  
509-854-2770

### Nearest Address

500 East A Street  
Granger, WA 98932

### Driving Directions

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works)**

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
Channel Near 15340 Yakima Valley Highway

Position - Location: 46° 22.827', -120° 13.649'    46° 22' 49.6", -120° 13' 38.9"  46.38045, -120.22748  Toppenish

Strategy Objective: Deflection : Deflect oil away from entrance to channel on river left

Implementation: Using workboat, secure end of 300 ft of boom to shore on river left, at/near Point A (46.380863, -120.227517). Extend boom downstream across entrance to channel on river left, securing it mid-river at/near Point B (46.380048, -120.227712). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 16.85 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

- 5 Each Anchoring System(s) - (anchor, lines, floats)
- 1 Each Anchoring System(s)- Shoreside
- 300 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
YAK-87.0L Photo: View of the left channel where YAK-87.0L is to be deployed

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

WDFW Region 3 South Central
Land/Property Contact: Management agency for water access site
509-575-2740

Nearest Address
3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
### Drain Near 14682 Yakima Valley Highway

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 23.120', -120° 14.169'</th>
<th>46° 23' 7.2&quot;, -120° 14' 10.1&quot;</th>
<th>46.38533, -120.23615</th>
<th>Toppenish</th>
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</thead>
</table>

**Strategy Objective:** Collect oil moving downstream on drain before it enters the Yakima River on river left

**Implementation:**
Using workboat, secure end of 100 ft of boom to bank on river left upstream of the drain canal at/near Point A (46.385235, -120.236168). Extend boom downstream across the canal, securing it on river left at/near Point B (46.385348, 120.235895). Back hard boom with sorbent. If oil collecting beyond sorbent’s capacity, use skimmer/storage for collection. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

**Site Safety:**
Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
River - Below a Dam - Yakima River, 16.3 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:**
Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>1 Each Anchoring System(s) - (anchor, lines, floats)</td>
<td>1</td>
</tr>
<tr>
<td>2 Each Anchoring System(s)- Shoreside</td>
<td>2</td>
</tr>
<tr>
<td>100 Feet Boom - B3 (River Boom) or equivalent</td>
<td>100</td>
</tr>
<tr>
<td>1 Each Boom - Sorbent</td>
<td>1</td>
</tr>
<tr>
<td>1 Each Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1</td>
</tr>
<tr>
<td>1 Each Machete(s) - (or other vegetation cutting tool)</td>
<td>1</td>
</tr>
<tr>
<td>1 Each Skimmer (appropriately sized) with Portable Storage</td>
<td>1</td>
</tr>
<tr>
<td>1 Each Workboat(s) - of adequate size for type and amount of boom</td>
<td>1</td>
</tr>
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### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>1 Boat Operator</td>
<td>1</td>
</tr>
<tr>
<td>2 Laborer</td>
<td>2</td>
</tr>
<tr>
<td>1 Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>

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**Note:**
Each Anchoring System(s) - (anchor, lines, floats) includes the following:

- Anchor(s) - for securing boom to banks
- Line(s) - to connect anchor(s) to boom
- Floats - for buoyancy and visibility

Each Bridle(s) - Towing includes the following:

- Bridle(s) - for towing boom across watercourses
- Appropriate sized for the boom and type of flow conditions

Each Machete(s) - (or other vegetation cutting tool) includes tools for removing vegetation or obstacles that may interfere with boom placement.

Each Skimmer (appropriately sized) with Portable Storage includes:

- Skimmer - for collecting oil or other contaminants
- Portable Storage - to transport collected material

Each Workboat(s) - of adequate size includes:

- Size appropriate for the type and amount of boom, ensuring stability and maneuverability in varying flow conditions.

---

**Diagram:**

- Map of Yakima River showing the position of Point A and Point B, with the drain canal highlighted, and the river flow direction indicated.
- Labels for key elements such as Anchoring System(s), Bridle(s), Machete(s), Skimmer(s), Workboat(s), and their respective quantities.
Drain Near 14682 Yakima Valley Highway

YAK-87.55L Photo: View of the backwater channel where YAK-87.55L is to be deployed

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

Sunnyside Valley Irrigation District
Other: Manages Sunnyside Diversion Dam & canal
509-837-6980

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) Nprth Meyers Bridge

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 N Meyers Rd, 98948, on the right
Backwater Area Near 310 Railroad Ave East, Zillah

Position - Location: 46° 23.519', -120° 14.891' 46° 23' 31.2", -120° 14' 53.4" 46.39199, -120.24818 Toppenish

Strategy Objective: Exclusion: Keep oil away from entrance to backwater area on river left

Implementation: Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.391919, -120.248518). Extend boom downstream across entrance to backwater area on river left, securing it at/near Point B (46.391891, -120.247745). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote: Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 15.1 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

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<th>Equipment</th>
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<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>2 Each</td>
</tr>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
</tr>
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</table>

Recommended Personnel

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>

Appendix 4A
Backwater Area Near 310 Railroad Ave East, Zillah

YAK-88.75L Photo: View of the backwater channel near Railroad Ave E, Zillah where YAK-88.75L is to be deployed

**Site Contact**

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
509-945-2939

**WDFW Region 3 South Central**  
Secondary Contact: Management agency for water access site  
509-575-2740

**Nearest Address**

3000 N Meyers Rd  
Toppenish, WA 98948

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
## Backwater Area Across I-82 from Loges Park

### Position - Location:
- Lower Yakima River GRP
- June 2017
- YAK-89.9R
- Backwater Area Across I-82 from Loges Park

<table>
<thead>
<tr>
<th>Position - Location</th>
<th>46° 23.750', -120° 15.838'</th>
<th>46° 23' 45.0&quot;, -120° 15' 50.3&quot;</th>
<th>46.39584, -120.26397</th>
</tr>
</thead>
</table>

### Strategy Objective:
- Exclusion: Keep oil away from entrance to backwater area on river right

### Implementation:
- Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.39566, -120.264204). Extend boom downstream across entrance to backwater area on river right, securing it at/near Point B (46.395883, -120.263257). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

### Staging Area:
- Remote: Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

### Site Safety:
- Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

### Field Notes:
- Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

### Watercourse:
- River - Below a Dam - Yakima River, 13.95 miles downstream of the Sunnyside Diversion Dam

### Resources at Risk:
- Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>2 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
</tr>
<tr>
<td>2 Each</td>
<td>Anchoring System(s) - Shoreside</td>
</tr>
<tr>
<td>200 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>1 Each</td>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
</tr>
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</table>

### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Backwater Area Across I-82 from Loges Park

YAK-89.9R Photo: View of the backwater area on river right across I-82 from Longes Park

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

WDFW Region 3 South Central
Secondary Contact: Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
### Backwater Area SE of North Meyers Road Bridge

**Position - Location:** 46° 23.738', -120° 16.687'  |  46° 23' 44.3", -120° 16' 41.2"  |  46.39564, -120.27812  |  Toppenish

**Strategy Objective:** Keep oil away from entrance to backwater area on river right

**Implementation:** Using workboat, secure end of 100 ft of boom to shore on river right, at/near Point A (46.395701, -120.278326). Extend boom downstream across entrance to backwater area on river right, securing it at/near Point B (46.395471, -120.278205). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 13.15 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Area, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>2 Each</td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
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</table>

**Recommended Personnel**

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<tr>
<th>Role</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</tbody>
</table>
Backwater Area SE of North Meyers Road Bridge

YAK-90.7R Photo: Entrance to backwater area SE of N Meyers Road Bridge

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

WDFW Region 3 South Central
Secondary Contact: Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
North Meyers Road Bridge  

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 23.963', -120° 16.866'</th>
<th>46° 23' 57.8&quot;, -120° 16' 52.0&quot;</th>
<th>46.39938, -120.28110</th>
<th>Toppenish</th>
</tr>
</thead>
</table>

**Strategy Objective:** Collect oil moving downstream on the Yakima River on river right

**Implementation:**
- Using workboat, secure end of 500 ft of boom to shore on river left, at/near Point A (46.399916, -120.282619). Extend boom downstream of the bridge to river right, securing it at/near Point B (46.399142, -120.281014.). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use skimmer/storage to collect oil at/near Point B.

**Staging Area:**
- Remote: Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

**Site Safety:**
- Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
- Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
- River - Below a Dam - Yakima River, 12.9 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:**
- Backwater Habitat, Great Blue Heron Rookeries, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
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<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>500 Feet</td>
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</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Skimmer (appropriately sized) with Portable Storage</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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**Recommended Personnel**

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<tr>
<th>Role</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Boat Operator</td>
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</tr>
<tr>
<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
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</table>
**North Meyers Road Bridge**

YAK-90.95R Photo: View from the downstream side of the N Meyers Rd Bridge, above anchor point A, looking toward river right

<table>
<thead>
<tr>
<th>Site Contact</th>
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</thead>
<tbody>
<tr>
<td><strong>Yakama Nation</strong></td>
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<tr>
<td>Tribal Contact : Environmental Management Program</td>
</tr>
<tr>
<td>Toppenish, WA 98948</td>
</tr>
<tr>
<td>509-945-2939</td>
</tr>
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<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000 N Meyers Rd</td>
</tr>
<tr>
<td>Toppenish, WA 98948</td>
</tr>
</tbody>
</table>

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
**Backwater Area Near Pond 7 in Zillah**

**Position - Location:** 46° 24.349', -120° 17.335'  
46° 24' 21.0", -120° 17' 20.1"  
46.40582, -120.28891  
Toppenish

**Strategy Objective:** Exclusion: Keep oil away from entrance to backwater area on river left

**Implementation:** Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.406005, -120.288925). Extend boom downstream across entrance to backwater area, securing on river left it at/near Point B (46.405964, -120.288713). Back hard boom with sorbent. Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 12.15 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

<table>
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<tr>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Anchoring System(s)</td>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
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<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
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<tr>
<td>Boom - Sorbent</td>
<td>100 Feet</td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
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</table>

**Recommended Personnel**

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<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Backwater Area Near Pond 7 in Zillah

YAK-91.7L Photo: Mouth of backwater channel where YAK-91.7L is to be deployed

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

WDFW Region 3 South Central
Secondary Contact: Management agency for water access site
509-575-2740

Nearest Address
3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
**Fraley Road Backwater Area**

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 24.293′, -120° 17.533′</th>
<th>46° 24′ 17.6″, -120° 17′ 32.0″</th>
<th>46.40489, -120.29222</th>
<th>Toppenish</th>
</tr>
</thead>
</table>

**Strategy Objective:** Deflection: Deflect oil away from entrance to backwater area on river right

**Implementation:**
- Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.404878, -120.29257).
- Extend boom downstream across entrance to backwater area, securing mid-river at/near Point B (46.405116, -120.291864).
- Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 12 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**
- 3 Each Anchoring System(s) - (anchor, lines, floats)
- 1 Each Anchoring System(s) - Shoreside
- 200 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**
- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Fraley Road Backwater Area

YAK-91.85R Photo: View of the backwater channel mouth where YAK-91.85R is to be deployed

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

WDFW Region 3 South Central
Secondary Contact: Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
### Left Channel at Yakima River Mile 92.45

**Position - Location:** 46° 24.158', -120° 18.296'  
46° 24' 9.5'', -120° 18' 17.8''  
46.40263, -120.30494  
Toppenish

**Strategy Objective:** Deflection  
Deflect oil away from entrance to channel on river left

**Implementation:**  
Using workboat, secure end of 300 ft of boom to island mid-river at/near Point A (46.4034, -120.3057). Extend boom downstream, securing outside woody debris at/near Point B (46.3481, -120.2137). Then extend remaining boom downstream, securing it to island at/near Point C (46.4027, -120.3052). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:**  
Remote: Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

**Site Safety:**  
Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**  
Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:**  
River - Below a Dam  
Yakima River, 11.4 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:**  
Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
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</thead>
<tbody>
<tr>
<td>4 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<td>3 Each</td>
<td>Anchoring System(s)- Shoreside</td>
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<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
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<tr>
<td>1 Each</td>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
</tr>
</tbody>
</table>

### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
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</thead>
<tbody>
<tr>
<td>1 Boat Operator</td>
</tr>
<tr>
<td>2 Laborer</td>
</tr>
<tr>
<td>1 Supervisor</td>
</tr>
</tbody>
</table>
Left Channel at Yakima River Mile 92.45

YAK-92.45M Photo: Downstream view of the mid-river location where YAK-92.45M is to be deployed

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

WDFW Region 3 South Central
Secondary Contact: Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
**Backwater Area at Yakima River Mile 92.6**

**Position - Location:** 46° 24.250', -120° 18.396'  
46° 24' 15.0", -120° 18' 23.8"  
46.40416, -120.30660  
Toppenish

**Strategy Objective:** Deflection : Deflect oil away from entrance to backwater area on river left

**Implementation:** Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.404447, -120.30652). Extend boom downstream across entrance to backwater area, securing mid-river at/near Point B (46.403983, -120.306591). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote : Stage at SA-YAK-91.05L, North Meyers Road Boat Launch

**Site Safety:** Water Hazard; Large Woody Debris; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 11.25 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

---

**Recommended Equipment**

- 3 Each Anchoring System(s) - (anchor, lines, floats)
- 1 Each Anchoring System(s)- Shoreside
- 200 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Backwater Area at Yakima River Mile 92.6

YAK-92.6L Photo: Downstream view of location where YAK-92.6L is to be deployed

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

WDFW Region 3 South Central
Secondary Contact: Management agency for water access site
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (.28 miles)
3. Turn left on Toppenish Zillah Rd (.13 miles)
4. Continue on N Meyers Rd toward Toppenish (.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
### Evergreen Highway Bridge

**Position - Location:**
- Site 1: 46° 24' 24.9", -120° 18' 52.9"  
- Site 2: 46.40969, -120.31469  
  Zillah

**Strategy Objective:**
- Collection: Collect oil moving downstream on the Yakima River on river right

**Implementation:**
- Using workboat, secure end of 400 ft of boom to river left at/near Point A (46.41055, -120.31492). Extend boom downstream, securing mid-channel at/near Point B (46.40976, -120.31452). Then extend remaining boom downstream, securing it on river right at/near Point C (46.40941, -120.31458). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions. Use small vac truck or skimmer/storage to collect oil at Point C.

**Staging Area:**
- Onsite: On tribal land, coordinate access with the Yakima Nation at 509-945-2939. Narrow gravel/dirt drive with a gate.

**Site Safety:**
- Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
- Launch at BL-YAK-91.05L, North Meyers Road Boat Launch. Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
- River - Below a Dam - Yakima River, 10.75 miles downstream of the Sunnyside diversion dam

**Resources at Risk:**
- Backwater Habitat, General Fish and Wildlife Resources, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid

### Recommended Equipment

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<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>5 Each</td>
<td></td>
</tr>
<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>400 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</tbody>
</table>
Evergreen Highway Bridge

YAK-93.1R Photo: View from the entrance gate to the site, looking upstream along the proposed boom angle

<table>
<thead>
<tr>
<th>Site Contact</th>
</tr>
</thead>
</table>
| **Yakama Nation**  
  Tribal Contact: Environmental Management Program  
  Toppenish, WA 98948  
  509-945-2939 |

<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
</thead>
</table>
| 66 Conners Lane  
  Zillah, WA 98953 |

**Driving Directions**

1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (0.35 miles)
5. Make sharp right as soon as you cross the bridge, finish at gate leading to strategy location near 46.409414, -120.314578.
Weirman Road Backwater Area

Position - Location: 46° 24.444', -120° 19.777'  
46° 24' 50.6", -120° 19' 46.6"  
46.41406, -120.32962  
Toppenish

Strategy Objective: Exclusion: Keep oil away from entrance to backwater area on river right

Implementation: Using workboat, secure end of 200 ft of boom to shore on river right, at/near Point A (46.414223, -120.329973). Extend boom downstream across entrance to backwater area, securing on river right at/near Point B (46.413749, -120.329604). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Remote: Stage at SA-YAK-94.5R, Wierman Road Primitive Boat Launch. Coordinate access with Yakima Nation at 509-945-2939

Site Safety: Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-94.5R, Wierman Road Primitive Boat Launch (may need to hand launch in low water). Notify Yakima Nation before deployment; call 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Below a Dam - Yakima River, 9.7 miles downstream of the Sunnyside diversion dam

Resources at Risk: Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

- 2 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 200 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Weirman Road Backwater Area

YAK-94.15R Photo: View of the backwater channel inlet off of Wieman Road taken from midriver during low water conditions. There are openings to the channel on either side of the sandbar.

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

Nearest Address

1402 Wierman Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK94.5R/BL-YAK-94.5R) Wierman Road Primitive Boat Launch

1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (0.51 miles)
7. Turn right on Wierman Rd (1.65 miles)
8. Turn right just after 1402 Wierman Rd, 98948, on the left, follow dirt track off to the right the river (0.2 miles)
Just Upstream of Snipes/Allen Canal Fish Screen

**Position - Location:** 46° 26.636', -120° 20.930'  46° 26' 38.2", -120° 20' 55.8"  46.44394, -120.34883  Wapato

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river left

**Implementation:** Using hand launch workboat, secure end of 200 ft of boom, backed with sorbent, on river right at/near Point A (46.4439, -120.349). Extend boom across side channel, securing it at/near Point B (46.4438, -120.3489). Extend boom further downstream, securing it on river right at/near Point C (46.4439, -120.3486). Secure remaining boom on river left at Point D (46.444, -120.3488). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle/anchors as needed. Use skimmer/storage to collect oil at/near Point C.

**Staging Area:** Onsite: Dirt/gravel parking area next to the Snipes/Allen Canal head gate

**Site Safety:** Water Hazard; Slips, Trips, Falls; Dangerous Animals\Snakes; Heavy Vegetation

**Field Notes:** Hand launch a small boat onsite (or use waders in shallow water). Notify US Bureau of Reclamation at 509-406-3031 to coordinate access. Yakima River has extreme variability in seasonal flows.

**Watercourse:** River - Below a Dam - Yakima River, 6.9 miles downstream of the Sunnyside diversion dam

**Resources at Risk:** Backwater Habitat, Economic Resource, Great Blue Heron Rookeries, Osprey Nest(s), Water Intakes

**Recommended Equipment**

- 2 Each Anchoring System(s) - (anchor, lines, floats)
- 4 Each Anchoring System(s)- Shoreside
- 200 Feet Boom - B3 (River Boom) or equivalent
- 200 Feet Boom - Sorbent
- 2 Each Heaving Line(s)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - (hand-launch)

**Recommended Personnel**

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Just Upstream of Snipes/Allen Canal Fish Screen

YAK-96.95L Photo: No photo available

Site Contact

US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager
509-406-3031

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

Nearest Address

30 Flint Road
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn right on Buena Rd (WA-22) (0.65 miles)
4. Turn left on Yakima Valley Hwy (1.99 miles)
5. Turn left on Flint Ln (0.4 miles)
6. Pass 30 Flint Road, 98951, and go through the tunnel under the highway. Snipes/Allen Screen is on the right. Follow the dirt road that runs on the W side of the fence back to the strategy location (0.15 miles)
## Backwater Area at Yakima River Mile 97.95

**Position - Location:** 46° 26.936′, -120° 21.1874′  -  46° 26′ 56.2″, -120° 21′ 52.4″  -  46.44894, -120.36456  -  Wapato

**Strategy Objective:** Keep oil away from entrance to backwater area on river left

**Implementation:** Using workboat, secure end of 100 ft of boom to shore on river left, at/near Point A (46.448975, -120.364339). Extend boom downstream across entrance to backwater area, securing on island at/near Point B (46.448745, -120.364464). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate access with Yakima Nation at 509-945-2939

**Site Safety:** Water Hazard; Large Woody Debris; Slips, Trips, Falls

**Field Notes:** Launch at BL-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate with Yakima Nation at 509-945-2939 for access, launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 5.9 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
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<tbody>
<tr>
<td>Anchoring System(s)</td>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
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</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing</td>
<td>1 Each</td>
<td>(appropriately sized for boom)</td>
</tr>
<tr>
<td>Workboat(s)</td>
<td>1 Each</td>
<td>(of adequate size for type and amount of boom)</td>
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</table>

### Recommended Personnel

<table>
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<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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</tr>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</table>
Backwater Area at Yakima River Mile 97.95

YAK-97.95M Photo: View looking into the backwater channel where YAK-97.95M is to be deployed

<table>
<thead>
<tr>
<th>Site Contact</th>
</tr>
</thead>
</table>
| **Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939 |

<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
</thead>
</table>
| 1561 E Wapato Rd  
Wapato, WA 98951 |

<table>
<thead>
<tr>
<th>Driving Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road Primitive Boat Launch</td>
</tr>
<tr>
<td>1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)</td>
</tr>
<tr>
<td>2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)</td>
</tr>
<tr>
<td>3. Turn left on Buena Rd (WA-22) (0.23 miles)</td>
</tr>
<tr>
<td>4. Continue on Buena Way (WA-22) (1.7 miles)</td>
</tr>
<tr>
<td>5. Turn right on E McDonald Rd (0.64 miles)</td>
</tr>
<tr>
<td>6. Bear right on N Track Rd (3.13 miles)</td>
</tr>
<tr>
<td>7. Make sharp right on N Oldenway Rd (1.85 miles)</td>
</tr>
<tr>
<td>8. Turn left on E Wapato Rd (0.34 miles)</td>
</tr>
<tr>
<td>9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)</td>
</tr>
<tr>
<td>10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752</td>
</tr>
</tbody>
</table>
## Backwater Area at Yakima River Mile 98.15

### Position - Location:
- 46° 27.136', -120° 21.865' (YAK-98.15L)
- 46° 27' 8.2'', -120° 21' 51.9''
- 46.45227, -120.36442

### Strategy Objective:
Exclusion: Keep oil away from entrance to backwater area on river left

### Implementation:
Using workboat, secure end of 300 ft of boom on river left at/near Point A (46.45177, -120.3641). Extend boom across side channel, securing mid-river at/near Point B (46.4521, -120.3646). Then extend boom further downstream, securing it on the west side of the island at/near Point C (46.45109, -120.36443). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

### Staging Area:
Remote: Stage at SA-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate access with Yakima Nation at 509-945-2939

### Site Safety:
Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

### Field Notes:
Launch at BL-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate with Yakima Nation at 509-945-2939 for access, launch is on tribal land. Yakima River has extreme variability in seasonal flow.

### Watercourse:
River - Below a Dam - Yakima River, 5.7 miles downstream of the Sunnyside Diversion Dam

### Resources at Risk:
Backwater Habitat, Great Blue Heron Rookeries, Osprey Nest(s), Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment
- 4 Each Ancre (anchor, lines, floats)
- 2 Each Ancre System(s)- Shoreside
- 300 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel
- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
YAK-98.15L Photo: Downstream view of the left channel where YAK-98.15L is to be deployed

**Site Contact**

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939

**Nearest Address**

1561 E Wapato Rd  
Wapato, WA 98951

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-99.4R/BL-99.4R) East Wapato Road Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (3.13 miles)
7. Make sharp right on N Oldenway Rd (1.85 miles)
8. Turn left on E Wapato Rd (0.34 miles)
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752
Backwater Area Near East Wapato Road

**Position - Location:** 46° 27.488', -120° 22.973'  
**Wapato**

**Strategy Objective:** Deflection: Deflect oil away from entrance to backwater area on river left

**Implementation:** Using workboat, secure end of 200 ft of boom to shore on river left, at/near Point A (46.458346, -120.382786). Extend boom downstream across entrance to backwater area, securing mid-river at/near Point B (46.457792, -120.382693). Use shoreside anchoring system or existing features to secure boom to bank. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate access with Yakima Nation at 509-945-2939

**Site Safety:** Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-99.4R, East Wapato Road Primitive Boat Launch. Coordinate with Yakima Nation at 509-945-2939 for access, launch is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 4.45 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>3 Each</td>
<td></td>
</tr>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
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**Recommended Personnel**

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<tr>
<th>Role</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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<tr>
<td>Laborer</td>
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<tr>
<td>Supervisor</td>
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</table>
**Backwater Area Near East Wapato Road**

**YAK-99.4L**

**Site Contact**

**Yakama Nation**

Tribal Contact: Environmental Management Program

509-945-2939

**Nearest Address**

1561 E Wapato Rd

Wapato, WA 98951

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road

Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (3.13 miles)
7. Make sharp right on N Oldenway Rd (1.85 miles)
8. Turn left on E Wapato Rd (0.34 miles)
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752

**YAK-99.4L Photo:** Downstream view of the left shoreline where YAK-99.4L is to be deployed.
Donald Wapato Bridge  

**Position - Location:** 46° 27.895', -120° 24.040'  
46° 27' 53.7", -120° 24' 2.4"  
46.46492, -120.40067  
Wapato

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river right

**Implementation:** Using hand-launch workboat, secure end of 300 ft of boom to bank on river left at/near Point B (46.465075, -120.401146). Extend boom downstream and across to river right; secure remaining end at/near Point A (46.464933, -120.39999). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Use lines, winch, and workboat to control boom shape and movement in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and conditions. Vac-truck or skimmer/storage collection at Point A.

**Staging Area:** Onsite: Stage on dirt road adjacent to anchor point A

**Site Safety:** Water Hazard; Undercut Bank in Areas; Slips, Trips, Falls

**Field Notes:** Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Must drive off-road on dirt tracks to get to the waters edge. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 3.8 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** General Fish and Wildlife Resources, Sensitive Resources, Tribal Lands/Resources

**Recommended Equipment**

- 3 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 300 Feet Boom - B3 (River Boom) or equivalent
- 2 Each Heaving Line(s)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - (hand-launch)

**Recommended Personnel**

- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
Donald Wapato Bridge

YAK-100.5R Photo: View from river right of the area on river left where anchor point B would be placed

<table>
<thead>
<tr>
<th>Site Contact</th>
</tr>
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</table>
| **Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939 |

<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
</thead>
</table>
| 2141 Donald Wapato Rd  
Wapato, WA 98951 |

<table>
<thead>
<tr>
<th>Driving Directions</th>
</tr>
</thead>
</table>
| 1. Head west from West Richland on I-82 (51.79 miles)  
2. At exit 44 take ramp on the right toward Wapato (0.4 miles)  
3. Turn left on Donald Wapato Rd (0.3 miles)  
4. Go past 2141 Donald Wapato Rd, 98951, on the left. Cross the bridge and then turn right onto the first dirt road with available access. Stay to the right until you come to the river just upstream of the Donald Wapato Bridge (0.2 miles) |
## Yakima River RM 102.1

**Position - Location:** 46° 29.032', -120° 25.222'  
46° 29' 1.9", -120° 25' 13.3"  
46.48387, -120.42037  
Wapato

**Strategy Objective:** Exclusion: Keep oil out of backwater on river right.

**Implementation:** Using workboat, secure 300 ft of boom to gravel bar on river right at/near Point A (46.48443, -120.42077), immediately upstream of side channel entrance. Extend boom downstream ~200 ft, across side channel entrance; secure at/near Point B (46.483875, -120.420373). Extend remaining boom along river right of main channel, and secure at/near Point C (46.48377, -120.42013). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors based on stream flow & conditions.

**Staging Area:** Remote: Stage at SA-YAK-103.05L Mellis Frontage Road Boat Launch

**Site Safety:** Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-103.05L Mellis Frontage Road Boat Launch. Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 1.75 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

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<th>Item</th>
<th>Quantity</th>
<th>Description</th>
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<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<td></td>
</tr>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>3 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>300 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
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### Recommended Personnel

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<td>Boat Operator</td>
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</tr>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</tbody>
</table>
**Yakima River RM 102.1**

**YAK-102.1R Photo:** Looking west from boat toward river right.

**Site Contact**

**Yakama Nation**  
Tribal Contact : Environmental Management Program  
509-945-2939

**WDFW Region 3 South Central**  
Land/Property Contact : Management agency for water access site  
509-575-2740

**Nearest Address**

300 Mellis Rd  
Wapato, WA 98951

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH SA-YAK-103.05L/BL-YAK-103.05L Mellis Frontage Road Boat Launch

1. Head west from West Richland on I-82 (8.27 miles)
2. At exit 93 take ramp on the right and go on Yakitat Road (9.18 miles)
3. At exit 44 take ramp on the right toward Wapato (0.4 miles)
4. Turn right on Donald Wapato Rd (0.39 miles)
5. Turn left on Yakima Valley Hwy (1.59 miles)
6. Turn left on Mellis Rd (0.3 miles)
7. Finish at 300 Mellis Rd, 98951, on the right
Mellis Frontage Road backwater habitat

Position - Location: 46° 29.159', -120° 25.319'  46° 29' 9.5", -120° 25' 19.1"  46.48598, -120.42198  Wapato

Strategy Objective: Exclusion: Keep oil out of backwater habitat on river left

Implementation: Using workboat, secure end of 200 ft of boom to bank on river left at/near Point A (46.48601, -120.421952). Extend boom downstream, at/near Point B, above any large woody debris, (46.485854, -120.421665). Then extend remaining boom across to the right side of island, securing it at/near Point C (46.485702, -120.421291). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

Staging Area: Remote: Stage at SA-YAK-103.05L Mellis Frontage Road Boat Launch

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-103.05L Mellis Frontage Road Boat Launch. The Yakima River has extreme variability in seasonal flows

Watercourse: River - Below a Dam - Yakima River, 1.75 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

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<tr>
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<tbody>
<tr>
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<tr>
<td>Anchoring System(s) - Shoreside</td>
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<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
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Recommended Personnel

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<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
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</table>
Mellis Frontage Road backwater habitat

YAK-102.2L Photo: View of the inlet to backwater habitat adjacent to Mellis Frontage Road

Site Contact

**Yakama Nation**
Tribal Contact: Environmental Management Program
509-945-2939

**WDFW Region 3 South Central**
Land/Property Contact: Management agency for water access site
509-575-2740

Nearest Address

300 Mellis Rd
Wapato, WA 98951

Driving Directions

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK103.05L/BL-YAK-103.05L) Mellis Frontage Road Boat Launch**

1. Head southeast from West Pasco, on George Washington Way (WA-240-BR) (0.78 miles)
2. Bear right onto ramp to I-182 toward Pasco / Yakima (0.1 miles)
3. At fork keep right toward I-82 W / Yakima / Pendleton (4.5 miles)
4. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (58.07 miles)
5. At exit 44 take ramp on the right toward Wapato (0.4 miles)
6. Turn right on Donald Wapato Rd (0.39 miles)
7. Turn left on Yakima Valley Hwy (1.59 miles)
8. Turn left on Mellis Rd (0.3 miles)
9. Finish at 300 Mellis Road, 98951, on the right
Renegade Raceway Backwater S

Position - Location: 46° 29’ 27.5”, -120° 25’ 57.7”
Staging Area: Remote: Stage at SA-YAK-103.05L Mellis Frontage Road Boat Launch

Strategy Objective: Exclusion: Keep oil out of backwater habitat on river right

Implementation: Using workboat, secure end of 100 ft of boom to bank on river right at/near Point A (46.491037, -120.433116). Extend boom downstream, and across backwater inlet. Secure at/near Point B (46.490832, -120.432847). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. May need to turn into a deflection strategy in high water conditions.

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-103.05L Mellis Frontage Road Boat Launch. Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Yakima River has extreme variability in seasonal flow

Watercourse: River - Below a Dam - Yakima River, 0.75 miles downstream of the Sunnyside Diversion Dam

Resources at Risk: Backwater Habitat, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
YAK-103.1R Photo: View of the backwater inlet to be excluded by YAK-103.1R

**Site Contact**

**Yakama Nation**
Tribal Contact: Environmental Management Program
509-945-2939

**WDFW Region 3 South Central**
Land/Property Contact: Management agency for water access site
509-575-2740

**Nearest Address**

300 Mellis Rd
Wapato, WA 98951

**Driving Directions**

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK103.05L/BL-YAK103.05L) Mellis Frontage Road Boat Launch**

1. Head southeast from West Pasco, on George Washington Way (WA-240-BR) (0.78 miles)
2. Bear right onto ramp to I-182 toward Pasco / Yakima (0.1 miles)
3. At fork keep right toward I-82 W / Yakima / Pendleton (4.5 miles)
4. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (58.07 miles)
5. At exit 44 take ramp on the right toward Wapato (0.4 miles)
6. Turn right on Donald Wapato Rd (0.39 miles)
7. Turn left on Yakima Valley Hwy (1.59 miles)
8. Turn left on Mellis Rd (0.3 miles)
9. Finish at 300 Mellis Road, 98951, on the right
Sunnyside Diversion Dam West Access Road

**Position - Location:** 46° 30.100', -120° 27.097'  
46° 30' 6.0", -120° 27' 5.8"  
46.50167, -120.45161  
Wapato

**Strategy Objective:** Deflection: Deflect oil away from the backwater channel on river right

**Implementation:** Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.501643, -120.451956). Extend boom downstream, across backwater channel. Secure at/near Point B (46.501048, -120.451377). Use shoreside anchoring systems or existing features to secure boom to banks or facility. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

**Staging Area:** Onsite: Stage on dam access road with roadside parking adjacent to anchor point A at strategy location

**Site Safety:** Water Hazard; Downstream Diversion Dam; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Hand launch onsite. Notify Yakima Nation at 509-945-2939, ste is on tribal land. Notify the Sunnyside Irrigation District at 509-837-6980 to coordinate access. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 0.4 miles upstream of the Sunnyside Diversion Dam

**Resources at Risk:** Backwater Habitat, Fish Ladder(s), General Fish and Wildlife Resources, Tribal Lands/Resources

**Recommended Equipment**

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<th>Quantity</th>
<th>Item</th>
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<tbody>
<tr>
<td>3 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<td>2 Each</td>
<td>Anchoring System(s)- Shoreside</td>
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<tr>
<td>1 Each</td>
<td>Bolt Cutters</td>
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<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>2 Each</td>
<td>Heaving Line(s)</td>
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<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Winch - Come-A-Long</td>
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<tr>
<td>1 Each</td>
<td>Workboat(s) - (hand-launch)</td>
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**Recommended Personnel**

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<td>1</td>
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<td>Laborer</td>
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<tr>
<td>1</td>
<td>Supervisor</td>
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</table>
YAK-104.25R Photo: View looking downstream toward anchor point B, from shore near anchor point A for strategy YAK-104.25R

<table>
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<tr>
<th>Site Contact</th>
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<tbody>
<tr>
<td><strong>Sunnyside Valley Irrigation District</strong></td>
</tr>
<tr>
<td>Land/Property Contact: Manages Sunnyside Diversion Dam &amp; canal</td>
</tr>
<tr>
<td>509-837-6980</td>
</tr>
<tr>
<td><strong>Yakama Nation</strong></td>
</tr>
<tr>
<td>Tribal Contact: Environmental Management Program</td>
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<tr>
<td>509-945-2939</td>
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<tr>
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<tbody>
<tr>
<td>377 Parker Bridge Rd</td>
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<tr>
<td>Wapato, WA 98951</td>
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</table>

<table>
<thead>
<tr>
<th>Driving Directions</th>
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</thead>
<tbody>
<tr>
<td>1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)</td>
</tr>
<tr>
<td>2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)</td>
</tr>
<tr>
<td>3. Turn left on Thorp Rd (0.1 miles)</td>
</tr>
<tr>
<td>4. Continue on Yakima Valley Hwy (0.35 miles)</td>
</tr>
<tr>
<td>5. Turn right on Parker Bridge Rd (0.27 miles)</td>
</tr>
<tr>
<td>6. Cross the bridge and take the first left onto the Sunnyside Valley Irrigation District access road, finish at 46.501566, -120.451921 on the left (0.35 miles)</td>
</tr>
</tbody>
</table>
**Position - Location:** 46° 30.372', -120° 27.203'  
46° 30' 22.3", -120° 27' 12.2"  
46.50620, -120.45338  
Wapato

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river left

**Implementation:** Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.506535, -120.453863). Extend ~100 ft of boom downstream toward river center and anchor at Point B (46.506457, -120.453566). Take ~100 ft of the remaining boom directly downstream and anchor at Point C (46.506193, -120.453273). Take the end of boom across the river and secure below bridge at/near Point D (46.506098, -120.452928). Use shoreside anchoring systems or existing features to secure boom to banks. Use small vac truck/skimmer portable storage to collect oil at Point D.

**Staging Area:** Onsite: Stage on the NE side of the Parker Bridge near Point D

**Site Safety:** Water Hazard; Traffic, Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Hand launch onsite. Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Hand launch on site. Yakima River has extreme variability in seasonal flow

**Watercourse:** River - Below a Dam - Yakima River, 1.9 miles below the Wapato Dam

**Resources at Risk:** Sensitive Resources, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat

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**Recommended Equipment**

- **Anchoring System(s)** - (anchor, lines, floats)  
  3 Each
- **Shoreside**  
  2 Each
- **Boom - B3 (River Boom) or equivalent**  
  300 Feet
- **Line - 3/8” poly line**  
  400 Feet
- **Machete(s) - (or other vegetation cutting tool)**  
  1 Each
- **Vac Truck or Skimmer and Storage**  
  1 Each
- **Winch - Come-A-Long**  
  1 Each
- **Workboat(s) - (hand-launch)**  
  1 Each

**Recommended Personnel**

- **Boat Operator**  
  1
- **Laborer**  
  2
- **Supervisor**  
  1
Parker Bridge

YAK-104.6L Photo: View of anchor point A for YAK-104.6L taken from the opposite shore

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

Nearest Address

450 Yakima Valley Hwy
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.35 miles)
5. Turn right on Parker Bridge Rd ()
6. Finish at 450 Yakima Valley Hwy, 98951, on the right on the NE side of the bridge
**Parker Bridge Rd Backwater**

**Position - Location:** 46° 31.046', -120° 27.899'  
46° 31' 2.7", -120° 27' 53.9"  
Wapato

**Strategy Objective:** Exclusion : Keep oil out of backwater area on river right

**Implementation:** Using hand-launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.517148, -120.465788). Extend boom downstream, and across backwater channel on river right, securing it at/near Point B (46.517298, -120.464654.). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

**Staging Area:** Remote : Stage at SA-YAK-106.3L, 0.2 Miles Downstream of the Wapato East Spillway

**Site Safety:** Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Hand launch a small boat at BL-YAK-106.3L, 0.2 Miles Downstream of the Wapato East Spillway. Notify Yakima Nation before deployment; call 509-865-5121. Site is on Tribal Lands. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 0.7 miles downstream of the Wapato Diversion Dam

**Resources at Risk:** Backwater Habitat

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
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<tbody>
<tr>
<td>3 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
</tr>
<tr>
<td>3 Each</td>
<td>Anchoring System(s)- Shoreside</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - (hand-launch)</td>
</tr>
</tbody>
</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
</tr>
<tr>
<td>2</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
Parker Bridge Rd Backwater

YAK-105.8R Photo: View of the backwater inlet off of Parker Bridge Road

**Site Contact**

**Yakama Nation**
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

**Nearest Address**

1811 Thorp Rd
Wapato, WA 98951

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK106.3L/BL-YAK-106.3L) 0.2 Miles Downstream of the Wapato East Spillway

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn right on Thorp Rd (2 miles)
4. Turn left to go under I-82 though the tunnel. Go past the Wapato spillway then follow the dirt/gravel drive to the left until you reach a stream crossing (0.3 miles).
5. Finish at BL/SA-YAK-106.3L
**Just Upstream of the Wapato Diversion Dam**

**Position - Location:** 3° 54.495', 14° 47.565'  3° 54' 29.7", 14° 47' 33.9"  3.90825, 14.79275  Wapato

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river right

**Implementation:** Using workboat, secure end of 500 ft of boom to bank on river left at/near Point A (46.527998, -120.473982). Extend boom downstream, and across channel to river right, securing it at/near Point B (46.527111, -120.475539). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

**Staging Area:** Remote: Stage equipment & use boat launch at Century Landing (SA-YAK-107.1L & BL-YAK-107.1L)

**Site Safety:** Active Railroad, Diversion Dam Spillway; Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Notify Wapato Dam (509-877-3155 x3) and Yakama Nation (509-945-2939); strategy is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 0.25 miles upstream of the Wapato Diversion Dam

**Resources at Risk:** Federally Protected Area/Lands, Fish Ladder(s), Migratory Bird Populations, Tribal Lands/Resources, Waterfowl and Salmonid

---

**Recommended Equipment**

- **6 Each** Ancreying System(s) - (anchor, lines, floats)
- **3 Each** Ancreying System(s) - Shoreside
- **500 Feet** Boom - B3 (River Boom) or equivalent
- **1 Each** Bridle(s) - Towing (appropriately sized for boom)
- **1 Each** Machete(s) - (or other vegetation cutting tool)
- **1 Each** Vac Truck or Skimmer and Storage
- **1 Each** Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- **1 Boat Operator**
- **2 Laborer**
- **1 Supervisor**

---

Appendix 4A
Just Upstream of the Wapato Diversion Dam

YAK-106.75R Photo: Looking upstream from river right just above the Wapato Dam

<table>
<thead>
<tr>
<th>Site Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wapato Irrigation District (Bureau of Indian Affairs)</strong></td>
</tr>
<tr>
<td>Land/Property Contact: Emergency contact</td>
</tr>
<tr>
<td>509-877-3155 ext. 3</td>
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<table>
<thead>
<tr>
<th>BNSF Railroad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land/Property Contact: Service Interruption Desk</td>
</tr>
<tr>
<td>817-352-2832</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>74713 US Highway 97</td>
</tr>
<tr>
<td>Wapato, WA 98951</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driving Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-107.1L/BL-YAK-107.1L) Century Landing</td>
</tr>
<tr>
<td>1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)</td>
</tr>
<tr>
<td>2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (62.04 miles)</td>
</tr>
<tr>
<td>3. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)</td>
</tr>
<tr>
<td>4. Turn right on Thorp Rd (1.81 miles)</td>
</tr>
<tr>
<td>5. Boat launch is on the left. Finish at 82 Thorp Rd, 98951, on the left.</td>
</tr>
</tbody>
</table>
### Century Landing

**Position - Location:** 46° 31.917', -120° 28.222'  
46° 31' 55.0", -120° 28' 13.3"  
46.53195, -120.47036  
Wapato

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river left

**Implementation:** Using workboat, secure end of 400 ft of boom to bank on river right at/near Point A (46.531951, -120.470359). Extend boom downstream, and anchor mid-river at Point B (46.531397, -120.470208), take the remaining boom downstream across channel to river left, securing it at/near Point C (46.530846, -120.470328). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. Use vac truck or skimmer/storage to collect

**Staging Area:** Onsite: Stage at SA-YAK-107.1 Century Landing

**Site Safety:** Water Hazard; Boat and Vehicle Traffic; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch onsite at BL-YAK-107.1L Century Landing. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 0.6 miles upstream of the Wapato Dam

**Resources at Risk:** Boat Launch/Ramp, Migratory Bird Populations, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat, Wintering

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Anchoring System(s)</td>
<td>5 Each</td>
<td>- (anchor, lines, floats)</td>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>400 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
<td></td>
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<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
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### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
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<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</tbody>
</table>
Century Landing

YAK-107.1L Photo: View upstream from the upstream side of the Century Landing boat launch

Site Contact

Yakima Greenway Foundation
Land/Property Contact: Manages the Yakima Greenway and two boat launches
509-453-8280

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

Nearest Address

82 Thorp Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-107.1L/BL-YAK-107.1L) Century Landing

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (62.04 miles)
3. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
4. Turn right on Thorp Rd (1.81 miles)
5. Boat launch is on the left. Finish at 82 Thorp Rd, 98951, on the left.
## Yakima River, River Mile 108.8

**Position - Location:** 46° 33.103', -120° 28.064'  
46° 33' 6.2", -120° 28' 3.8"  
46.55172, -120.46773  
Wapato

**Strategy Objective:** Exclusion: Keep oil out of entrance to backwater area on river left

**Implementation:** Using workboat, secure end of 200 ft of boom to bank on river left at/near Point A (46.55206, -120.46737). Extend boom downstream across backwater channel on river left, securing it at/near Point B (46.55165, -120.46784). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions.

**Staging Area:** Remote: Stage at SA-YAK-107.1L Century Landing

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 2.3 miles upstream of the Wapato Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
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</tr>
<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
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</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
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</tr>
<tr>
<td>Workboat(s) - (hand-launch)</td>
<td>1 Each</td>
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### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
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<td>Laborer</td>
<td>2</td>
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<tr>
<td>Supervisor</td>
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</table>
Yakima River, River Mile 108.8

YAK-108.8L Photo: Photo Not Available

Site Contact

Yakima Greenway Foundation
Land/Property Contact: Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

82 Thorp Rd
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.7 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn right on Thorp Rd (1.83 miles)
4. Finish at 82 Thorp Road, 98951, on the left
Yakima River, River Mile 110.0

Position - Location: 46° 33.964', -120° 27.918'  46° 33' 57.9", -120° 27' 55.1"  46.56607, -120.46530

Strategy Objective: Deflection: Keep oil away from entrance to backwater area on river left.

Implementation: Using hand launch workboat, secure end of 200 ft of boom to bank on river left at/near Point A (46.56632, -120.46516). Use shoreside anchoring systems or existing features to secure boom to bank. Extend boom downstream toward the middle of the river and secure at/near Point B (46.56586, -120.46552). Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

Staging Area: Onsite: Stage off of the Yakima City Greenway Trail

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Hand launch on river right off of the Yakima City Greenway Trail, across the river from the strategy location. Contact the Yakima City Greenway Trail at 509-453-8280 to coordinate access, ok to cut lock if necessary. Yakima River has extreme variability in seasonal flow.

Watercourse: River - Above a Dam - Yakima River, 3.5 miles upstream of the Wapato Diversion Dam

Resources at Risk: Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

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<th>Equipment</th>
<th>Quantity</th>
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<td>Anchoring System(s) - (anchor, lines, floats)</td>
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<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>1 Each</td>
</tr>
<tr>
<td>Bolt Cutters</td>
<td>1 Each</td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Workboat(s) - (hand-launch)</td>
<td>1 Each</td>
</tr>
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</table>

Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
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<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</tbody>
</table>
Yakima River, River Mile 110.0

YAK-110.0M Photo: Looking SSW from river left near anchor point A.

Site Contact

Yakima Greenway Foundation
Land/Property Contact: Manages the Yakima Greenway and two boat launches
Yakima, WA 98901
509-453-8280

Nearest Address

1 East Valley Mall Blvd
Union Gap, WA 98903

Driving Directions

1. Head west from West Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (67.69 miles)
5. At exit 36 take ramp on the right to Valley Mall Blvd. toward Union Gap (0.37 miles)
6. At roundabout, go to the right into the parking lot for the Yakima Greenway Trail (.1 miles)
7. Go through the gate onto the greenway trail and go north (~0.4) miles to staging area across from strategy location 46.565898, -120.466235. Use 1 East Valley Mall Blvd, 98903, as the address for your navigation system.
### South of Yakima City Wastewater Facility

**Position - Location:** 46° 34.532', -120° 27.909'  
46° 34' 31.9", -120° 27' 54.5"  
46.57553, -120.46515 Yakima

**Strategy Objective:** Exclusion: Keep oil out of entrance to backwater channel on river right

**Implementation:**

Using hand launch workboat, secure end of 100 ft of boom to bank on river right, upstream of the backwater channel entrance, at/near Point A (46.575482, -120.465496). Extend boom downstream across the backwater channel, securing it on river right at/near Point B (46.575309, -120.465182). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and environmental conditions.

**Staging Area:** Onsite: Stage off of the Yakima City Greenway Trail

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Hand launch onsite off the Yakima City Greenway Trail. Contact the Yakima City Wastewater Treatment Plant at 509-575-6077 to coordinate access. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 4.35 miles upstream of the Wapato Diversion Dam

**Resources at Risk:** Backwater Habitat, Great Blue Heron, Turtles, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
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<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Anchoring System(s)</td>
<td>1 Each</td>
<td>(anchor, lines, floats)</td>
</tr>
<tr>
<td>Anchoring System(s)</td>
<td>2 Each</td>
<td>Shoreside</td>
</tr>
<tr>
<td>Bolt Cutters</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom)</td>
<td>100 Feet</td>
<td>or equivalent</td>
</tr>
<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
<td></td>
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<tr>
<td>Machete(s)</td>
<td>1 Each</td>
<td>(or other vegetation cutting tool)</td>
</tr>
<tr>
<td>Workboat(s)</td>
<td>1 Each</td>
<td>(hand-launch)</td>
</tr>
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### Recommended Personnel

<table>
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<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
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<tbody>
<tr>
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<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</tbody>
</table>
YAK-110.85R Photo: Looking upstream toward a channel leading to backwater habitat south of the Yakima City Wastewater Facility

**Site Contact**

**Yakima City Wastewater Division**  
Land/Property Contact: Yakima City wastewater facilities  
24/7 number: 509-575-6077

**Yakima Greenway Foundation**  
Land/Property Contact: Manages the Yakima Greenway and two boat launches  
509-453-8280

**Nearest Address**

2220 E Viola Ave  
Yakima, WA 98901

**Driving Directions**

1. Head west from West Richland on I-82 W toward Yakima (69.33 miles)  
2. At exit 34 take ramp on the right to WA-24 E / Nob Hill Blvd. toward Moxee (0.18 miles)  
3. Turn right on WA-24 (State Route 24) (0.18 miles)  
4. Turn right on S 22nd St (0.43 miles)  
5. Turn left on E Viola Ave (0.1 miles)  
6. Contact Yakima Wastewater Treatment for access to 2220 E Viola Ave, 98901, on the right  
7. Go south behind the building, past the retention pond, and onto the Yakima Greenway Trail, go left down the trail (0.17 miles)
### Yakima Wastewater Treatment Plant

**Position - Location:** 46° 34.674', -120° 28.022' | 46° 34' 40.4", -120° 28' 1.3" | 46.57790, -120.46703

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river right

**Implementation:** Using hand launch workboat, secure end of 300 ft of boom to bank on river left at/near Point A (46.578171, -120.46644). Extend boom downstream, securing it mid-channel at/near Point B (46.577912, -120.466918). Then extend remaining boom across to river right, securing it at/near Point C (46.577554, -120.467187). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil @ Point C

**Staging Area:** Onsite: Stage on the Yakima Greenway Trail directly behind the Yakima Wastewater Treatment facility.

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Hand launch a small boat from shore (some areas have rip rap) off the Yakima Greenway Trail. Contact the Yakima City Wastewater Treatment facility at 509-575-6077 to coordinate access. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 4.5 miles upstream of the Wapato Diversion Dam

**Resources at Risk:** Backwater Habitat, Bird Habitat, Recreational Use Area, Waterfowl and Salmonid Concentrations and Habitat

#### Recommended Equipment

<table>
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<tr>
<th>Item</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Anchoring System(s)</td>
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</tr>
<tr>
<td>Bolt Cutters</td>
<td>1 Each</td>
</tr>
<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
</tr>
<tr>
<td>Workboat(s) - (hand-launch)</td>
<td>1 Each</td>
</tr>
</tbody>
</table>

#### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Boat Operator</td>
<td>1</td>
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<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
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</table>
Yakima Wastewater Treatment Plant

YAK-111.0R Photo: Looking upstream from the Yakima Greenway Trail behind the Yakima City Wastewater Treatment Facility

<table>
<thead>
<tr>
<th>Site Contact</th>
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</table>
| **Yakima City Wastewater Division**  
Land/Property Contact: Yakima City wastewater facilities  
24/7 number  
509-575-6077 |
| **Yakima Greenway Foundation**  
Land/Property Contact: Manages the Yakima Greenway and two boat launches  
509-453-8280 |

<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
</thead>
</table>
| 2220 E Viola Ave  
Yakima, WA 98901 |

**Driving Directions**

1. Head west from West Richland on I-82 W toward Yakima (69.33 miles)
2. At exit 34 take ramp on the right to WA-24 E / Nob Hill Blvd. toward Moxee (0.18 miles)
3. Turn right on WA-24 (State Route 24) (0.18 miles)
4. Turn right on S 22nd St (0.43 miles)
5. Turn left on E Viola Ave (0.1 miles)
6. Contact Yakima Wastewater Treatment for access to 2220 E Viola Ave, 98901, on the right
7. Go south behind the building, past the retention pond, and onto the Yakima Greenway Trail on the left. Stage at Point C (46.577554, -120.467187)
### Dike Road below Terrace Heights Bridge

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 36.196', -120° 28.261'</th>
<th>46° 36' 11.8&quot;, -120° 28' 15.6&quot;</th>
<th>46.60327, -120.47101</th>
<th>Yakima</th>
</tr>
</thead>
</table>

#### Strategy Objective:
Collection: Collect oil moving downstream on the Yakima River on river left

#### Implementation:
Using hand launch workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.603413, -120.471608). Extend boom downstream, securing it mid-channel at/near Point B (46.603159, -120.470929). Then extend remaining boom across to river left, securing it at/near Point C (46.602953, -120.470586). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil.

#### Staging Area:
Onsite: Stage on Dike Road, gravel access road

#### Site Safety:
Water Hazard; Slips, Trips, Falls; Dangerous Animals\Snakes; Large Woody Debris

#### Field Notes:
Hand launch a small boat onsite. Coordinate with US Bureau of Reclamation at 509-406-3031 for access to Dike Road through the parking lot just downstream of the Terrace Heights Bridge on river left. Yakima River has extreme variability in seasonal flow.

#### Watercourse:
River - Above a Dam - Yakima River, 6.45 miles upstream of the Wapato Diversion Dam

#### Resources at Risk:
Backwater Habitat, Bird Habitat, City Park, Recreational Use Area, State Park, Waterfowl and Salmonid Concentrations and Habitat

### Recommended Equipment

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>3 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
</tr>
<tr>
<td>2 Each</td>
<td>Anchoring System(s) - Shoreside</td>
</tr>
<tr>
<td>1 Each</td>
<td>Bolt Cutters</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Line - 3/8” poly line</td>
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<tr>
<td>1 Each</td>
<td>Vac Truck or Skimmer and Storage</td>
</tr>
<tr>
<td>1 Each</td>
<td>Winch - Power Winch</td>
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<tr>
<td>1 Each</td>
<td>Workboat(s) - (hand-launch)</td>
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</table>

#### Recommended Personnel

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Position</th>
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<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
</tr>
<tr>
<td>2</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
Dike Road below Terrace Heights Bridge

Photo: View of river left where anchor point A is situated

YAK-112.95L

Site Contact

US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

2100 Terrace Heights Dr
Yakima, WA 98901

Driving Directions

1. Head west from West Richland on I-82 W (62.86 miles)
2. At exit 33 take ramp on the right to Yakima Ave toward Terrace Hts (0.1 miles)
3. At fork keep right on Terrace Hts (0.16 miles)
4. Turn right on Terrace Heights Dr (E Yakima Ave) (0.6 miles) turn into 2100 Terrace Heights Dr, the first parking lot on the right after crossing the bridge (NC Machinery Co)
5. The gate to Dike Rd is at the NW corner of the parking lot. Go through gate (bring bolt cutters) and turn left onto Dike Rd (0.25 miles)
6. Finish at Dike Road, Yakima 98901, on the right. Use 2100 Terrace Heights Dr. 98901 for your navigation system.

Appendix 4A
**Hartford Road backwater area**

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 36.817', -120° 29.155'</th>
<th>46° 36' 49.0&quot;, -120° 29' 9.3&quot;</th>
<th>46.61361, -120.48591</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Strategy Objective:</strong></th>
<th>Collection</th>
<th>Collect oil moving downstream on channel off Hartford Road</th>
</tr>
</thead>
</table>

**Implementation:**
Secure end of 100 ft of boom to bank on river left, near Hartford Rd, at/near Point A (46.61308, -120.48596). Using line, extend boom downstream, across canal, securing it to opposite bank at/near Point B (46.61363, -120.486). Extend remaining boom back and forth across canal, inside of Points A & B. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. If oil collecting beyond sorbent's capacity, use skimmer/storage to collect.

**Staging Area:**
Onsite: Park at end of road and stage in grass/dirt beside side channel

**Site Safety:**
Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
Backwater channel may be seasonal. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
River - Below a Dam - Yakima River, 13.7 miles downstream of the Roza Dam

**Resources at Risk:**
Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat

---

**Recommended Equipment**

- 4 Each Anchoring System(s)- Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 2 Each Heaving Line(s)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage

**Recommended Personnel**

- 2 Laborer
- 1 Supervisor

---

*Appendix 4A*
Hartford Road backwater area

YAK-114.3L Photo: No Photo Available

Site Contact

No Information
Not Determined:

Nearest Address

1406 Hartford Rd
Yakima, WA 98901

 Driving Directions

1. Head west from West Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (70.8 miles)
5. At exit 33 take ramp on the right to Yakima Ave toward Terrace Hts (0.1 miles)
6. At fork keep right on Terrace Hts (0.16 miles)
7. Turn right on Terrace Heights Dr (E Yakima Ave) (0.6 miles)
8. Turn left on Butterfield Rd (0.45 miles)
9. Turn left on Hartford Rd (0.66 miles)
10. Finish at 1406 Hartford Rd, 98901, on the left
**Strategic Objective:** Keep oil out of channel adjacent to Marsh Road on river left

**Implementation:** Secure end of 100 ft of boom to bank on river left, off of Marsh Road, at/near Point A (46.622463, -120.490269). Extend boom downstream, across the canal, securing it at/near Point B (46.622202, -120.490117). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

**Staging Area:** Stage at the end of the spit on a dirt road next to the canal off of Marsh Rd

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Gravel road conditions may vary. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 13 miles downstream of the Roza Dam

**Resources at Risk:** Backwater Habitat, Economic Resource

**Recommended Equipment**

- 1 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 2 Each Heaving Line(s)
- 100 Feet Line - 3/8” poly line
- 1 Each Line throwing gun(s) or device(s)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Winch - Come-A-Long

**Recommended Personnel**

- 2 Laborer
- 1 Supervisor
YAK-115.0L Photo: View of the inlet to the canal that runs adjacent to Marsh Rd and eventually feeds into the Union Gap screen.

**Site Contact**

**No Information**  
Not Determined:

**Nearest Address**

1214 Marsh Road  
Yakima, WA 98901

**Driving Directions**

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (69.15 miles)
3. At exit 33 take ramp on the right to Yakima Ave toward Terrace Hts (0.1 miles)
4. At fork keep right on Terrace Hts (0.16 miles)
5. Turn right on Terrace Heights Dr (E Yakima Ave) (0.6 miles)
6. Turn left on Butterfield Rd (0.5 miles)
7. Turn left on Marsh Rd (1.0 miles) then turn onto the dirt track on the left just before the canal
8. Finish at 1214 Marsh Road, 98901, on the left.
Site Safety:
Water Hazard; Large Woody Debris; Slips, Trips, Falls; Heavy Vegetation

Staging Area:
Remote: Stage at SA-YAK-116.7L, Harlan Landing

Using workboat, secure end of 100 ft of boom to bank on river left, off of Rest Haven Road, at/near Point A (46.63062, -120.508402). Extend boom downstream, in a chevron formation in front of the canal, securing it at/near Point B (46.630502, -120.508393). Then extend remaining boom across the canal, securing it on river left at/near Point C (46.630546, -120.508127). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Implementation:

Strategy Objective: Exclusion: Keep oil out of backwater area on river left

Resources at Risk:
Backwater Habitat, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
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<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
</tr>
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</table>

Recommended Personnel

<table>
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<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
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<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
1201 Rest Haven Road

YAK-116.0L Photo: View of the mouth of the backwater channel off Rest Haven Road

Site Contact

No Information
Not Determined:

Nearest Address

41 Rovetto Road
Yakima, WA 98901

Driving Directions

1. Head north from West Pasco on N Road 68 toward Argent Rd (1.45 miles)
2. Bear right onto ramp and go on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
3. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (71.91 miles)
4. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
5. Turn left on Rest Haven Rd toward Selah (0.08 miles)
6. Continue on Rovetto Rd (0.13 miles)
7. Finish at 41 Rovetto Road, 98901, on the left
**Position - Location:** 46° 37.954', -120° 31.457'  
46° 37' 57.3", -120° 31' 27.4"  
46.63257, -120.52428  
Yakima

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river left

**Implementation:** Using workboat, secure end of 400 ft of boom to bank on river right at/near Point A (46.63277, -120.524967). Extend boom downstream, toward mid-river, securing it at/near Point B (46.632658, -120.52432). Then extend remaining boom across to river left, securing it at/near Point C (46.632411, -120.523464). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

**Staging Area:** Onsite: Stage equipment & use boat launch on site at Harlan Landing (SA-YAK-116.7L & BL-YAK-116.7L)

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Use plywood to ease access over heavy brush at river’s edge. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 11.2 miles below Roza Diversion Dam

**Resources at Risk:** Boat Launch/Ramp, Habitat and Waterfowl, Public Recreation Site/Area

**Recommended Equipment**

<table>
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>5 Each</td>
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<tr>
<td>400 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
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<tr>
<td>1 Each</td>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
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<tr>
<td>2 Each</td>
<td>Plywood sheets (4ft x 4ft)</td>
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<tr>
<td>1 Each</td>
<td>Vac Truck or Skimmer and Storage</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
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</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
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<tr>
<td>2</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
YAK-116.8L Photo: View upstream from shore near anchor point B for YAK-116.8L at Harlan Landing

**Site Contact**

**Yakima Greenway Foundation**  
Land/Property Contact: Manages the Yakima Greenway and two boat launches  
509-453-8280

**BNSF Railroad**  
Emergency Contact: Service Interruption Desk  
817-352-2832

**Nearest Address**

41 Rovetto Road  
Yakima, WA 98901

**Driving Directions**

1. Head west from West Richland on I-82 W (65.62 miles)  
2. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)  
3. Turn left on Rest Haven Rd toward Selah (0.08 miles)  
4. Continue on Rovetto Rd (0.13 miles)  
5. Finish at 41 Rovetto Road, 98901, on the left.  
6. Strategy is located at first turn off to the right, at 46.632411, -120.523464, but the Harlan Landing boat launch, BL-YAK-116.7L, is at the end of the road in the park.
Lower Yakima River GRP

Golf Club Road Water Viewing Platform

Position - Location: 46° 38.284', -120° 31.468'  46° 38' 17.0", -120° 31' 28.1"  46.63806, -120.52447

Strategy Objective: Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 300 ft of boom to bank on river left at/near Point A (46.637808, -120.524814). Extend boom downstream, toward mid-river, securing it at/near Point B (46.638282, -120.524322). Then extend remaining boom across to river right, securing it at/near Point C (46.638407, -120.5239201). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

Staging Area: Onsite: Stage at parking area for Riverside Playland Park

Site Safety: Water Hazard; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Launch at BL-YAK-116.7L, Harlan Landing Park. Yakima River has extreme variability in seasonal flows.

Watercourse: River - Below a Dam - Yakima River, 10.8 miles downstream from the Roza Dam

Resources at Risk: City Park, Great Blue Heron Rookeries, Recreational Shoreline Area, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment:
- 3 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 300 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel:
- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Golf Club Road Water Viewing Platform

YAK-117.2R Photo: Looking upstream from the viewing platform at Playland Riverside Park

Site Contact

City of Selah
Land/Property Contact: Parks and Recreation
Selah, WA 98942
509-698-7300

Nearest Address

318 Golf Course Loop Road
Selah, WA 98942

Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (72 miles)
3. At exit 30A take ramp on the left to WA-823 N toward Selah (0.2 miles)
4. Continue on WA-823 (Yakima River Cyn) (0.26 miles)
5. At exit 30A turn right on Golf Course Loop Rd (0.14 miles)
6. Make sharp right to stay on Golf Course Loop Rd (0.02 miles)
7. Finish at 318 Golf Course Loop Road, 98942, on the right
Golf Course Road Wetlands

**Position - Location:**
46° 38.453', -120° 31.174'  
46° 38' 27.2", -120° 31' 10.4"  
46.64088, -120.51956  
Yakima

**Strategy Objective:**
Exclusion: Keep oil out of entrance to backwater area on river right

**Implementation:**
Using workboat, secure end of 200 ft of boom to bank on river right at/near Point A (46.641369, -120.518733). Extend boom downstream, across entrance to backwater area, securing it at/near Point B (46.641113, -120.519462). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

**Staging Area:**
Remote: Stage at SA-YAK-116.7L, Harlan Landing Park

**Site Safety:**
Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
Launch at BL-YAK-116.7L, Harlan Landing Park. Yakima River has extreme variability in seasonal flows.

**Watercourse:**
River - Below a Dam - Yakima River, 10.5 miles downstream of the Roza Dam

**Resources at Risk:**
Backwater Habitat, Emergent Wetlands, Great Blue Heron Rookeries, Waterfowl and Salmonid Concentrations and Habitat

---

**Recommended Equipment**

- 2 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 200 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Golf Course Road Wetlands

YAK-117.5R Photo: Looking into the downstream entrance to the backwater area by the golf course

<table>
<thead>
<tr>
<th>Site Contact</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
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<tbody>
<tr>
<td>41 Rovetto Road</td>
</tr>
<tr>
<td>Yakima, WA 98901</td>
</tr>
</tbody>
</table>

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK116.7L/BL-YAK116.7L) Harlan Landing Park

1. Head west from West Pasco on N Road 68 toward Argent Rd (1.45 miles)
2. Bear right onto ramp and go on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
3. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (71.91 miles)
4. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
5. Turn left on Rest Haven Rd toward Selah (0.08 miles)
6. Continue on Rovetto Rd (0.13 miles)
7. Finish at 41 Rovetto Rd, 98901, on the left
Behind Monson Fruit on Rushmore Rd

**Position - Location:** 46° 39.381', -120° 30.518'  
46° 39' 22.9", -120° 30' 31.1"  
46.65635, -120.50863  
Selah

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river right

**Implementation:** Using workboat, secure end of 400 ft of boom to bank on river left at/near Point A (46.6566, -120.507116). Extend boom downstream to mid-river, securing it at/near Point B (46.65671, -120.507805). Then extend remaining boom across to river right, securing it at/near Point C (46.656354, -120.508634). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use skimmer/storage to collect oil at/near Point C.

**Staging Area:** Onsite: Gravel drive with room for staging, may need to cut fence

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-116.7L, Harlan Landing. In some conditions you may be able to hand launch a small boat onsite. Yakima River has extreme variability in seasonal flows.

**Watercourse:** River - Below a Dam - Yakima River, 8.9 miles downstream of Roza Dam

**Resources at Risk:** Emergent Wetlands, Great Blue Heron Rookeries, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

- 5 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s)- Shoreside
- 1 Each Bolt Cutters
- 400 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Skimmer (appropriately sized) with Portable Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Behind Monson Fruit on Rushmore Rd

YAK-119.1R Photo: View of the shoreline on river right

Site Contact

No Information
Not Determined:

Nearest Address

701 S Rushmore Road
Selah, WA  98942

Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (72 miles)
3. At exit 30A take ramp on the left to WA-823 N toward Selah (0.2 miles)
4. Continue on WA-823 (Yakima River Cyn) (0.26 miles)
5. At fork keep left on WA-823 N toward Selah (0.9 miles)
6. Turn right at S 1st St / W Valleyview Ave to stay on WA823 (Wenas Ave) (0.43 miles)
7. Turn right on E Naches Ave (0.38 miles)
8. Go across Rushmore Rd into the parking lot of Monson Fruit, go around to the back of the building and turn right onto a gravel drive. Follow the gravel drive until you reach the strategy location 46.656638, -120.508441.
9. Use 701 S. Rushmore Road, 98942 for your navigation system
### Harrison Road Bridge

**Position - Location:** 46° 40.798', -120° 29.452'  
46° 40' 47.9", -120° 29' 27.1"  
46.67996, -120.49087  
Yakima

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river left

**Implementation:** Using workboat, secure end of 300 ft of boom to bank on river right at/near Point A (46.6566, -120.491277). Extend boom downstream to mid-river, securing it at/near Point B (46.679993, -120.491076). Then extend remaining boom across to river left, under the bridge, securing it at/near Point C (46.679483, -120.491012). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use skimmer/storage to collect oil at/near Point C.

**Staging Area:** Onsite: Very rough gravel drive with room to stage several vehicles under the bridge

**Site Safety:** Water Hazard; Huge Pot Holes in Gravel Drive; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch at BL-YAK-116.7L, Harlan Landing. In some conditions you may be able to hand launch a small boat onsite. Yakima River has extreme variability in seasonal flows.

**Watercourse:** River - Below a Dam - Yakima River, 6.7 miles downstream of the Roza Dam.

**Resources at Risk:** Great Blue Heron Rookeries, Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
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<tbody>
<tr>
<td>3 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
</tr>
<tr>
<td>2 Each</td>
<td>Anchoring System(s)- Shoreside</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>1 Each</td>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
</tr>
<tr>
<td>400 Feet</td>
<td>Line - 3/8&quot; poly line</td>
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<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Skimmer (appropriately sized) with Portable Storage</td>
</tr>
<tr>
<td>1 Each</td>
<td>Winch - Come-A-Long</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
</tr>
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</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Role</th>
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<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
</tr>
<tr>
<td>2</td>
<td>Laborer</td>
</tr>
<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
YAK-121.3L Photo: View upriver from underneath the Harrison Road bridge

**Site Contact**

**WSDOT**
Land/Property Contact: S Central Region Traffic Management/WSP District 3
509-577-1990

**No Information**
Not Determined:

**Nearest Address**
61 Rivers Edge Lane
Yakima, WA 98901

**Driving Directions**

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (73.34 miles)
3. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
4. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
5. Make sharp left on WA-821 (Firing Center Rd) (0.32 miles)
6. Make sharp left on Harrison Rd (WA-823) toward WA-823 S / Selah (0.24 miles)
7. Bear left across from Rivers Edge Ln and follow the gravel road as it runs adjacent to the highway until it ends underneath the Harrison Road bridge (0.5 miles)
8. Finish underneath the Harrison Road Bridge, across from Rivers Edge Lane, 98901
### Above the Taylor Canal Head Gate

**YAK-122.15R**

**Position - Location:**
- 46° 41' 47.1", -120° 29' 34.41"
- 46° 41' 28.3", -120° 29' 32.0"
- 46.69119, -120.49223
- Selah

**Strategy Objective:** Collect oil moving downstream in Taylor Canal, upstream of the headgate

**Implementation:** Secure mid-point of 100 ft of boom to bank on canal right at/near Point A (46.691166, -120.492333). Using line, extend boom upstream ~65 ft and across to canal left; secure end to bank at/near Point B. Extend remaining boom from Point A upstream and across to canal left. Secure end at/near Point C. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. Back hard boom with sorbent. If oil collecting beyond sorbent’s capacity, use vac truck or skimmer/storage for collection.

**Staging Area:** Gravel parking area with room for staging

**Site Safety:**
- Water Hazard
- Slips, Trips, Falls
- Heavy Vegetation
- Dangerous Animals\Snakes
- Heavy Vegetation

**Field Notes:** Notify the US Bureau of Reclamation at 509-406-3031 before deployment. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
- River - Side Channel - Yakima River, 5.85 miles downstream of the Roza Dam, upstream of the Taylor Canal headgate

**Resources at Risk:** Water Intakes

---

**Recommended Equipment**

<table>
<thead>
<tr>
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<td>Shoreside</td>
<td>3 Each</td>
<td>Anchoring System(s)</td>
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<tr>
<td>Boom - B3 (River Boom)</td>
<td>100 Feet</td>
<td>or equivalent</td>
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<tr>
<td>Boom - Sorbent</td>
<td>100 Feet</td>
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<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
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</tr>
<tr>
<td>Line - 3/8&quot; poly line</td>
<td>100 Feet</td>
<td></td>
</tr>
<tr>
<td>Line throwing gun(s)</td>
<td>1 Each</td>
<td>or device(s)</td>
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<tr>
<td>Machete(s)</td>
<td>1 Each</td>
<td>(or other vegetation cutting tool)</td>
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<tr>
<td>Vac Truck or Skimmer</td>
<td>1 Each</td>
<td>and Storage</td>
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</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laborer</td>
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</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Above the Taylor Canal Head Gate

YAK-122.15R Photo: View of the entrance to Taylor Canal from atop the headgate

Site Contact

US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager
Yakima, WA 98901-2058
509-406-3031

Nearest Address

1199 Ames Rd
Selah, WA 98942

Driving Directions

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (72 miles)
3. At exit 30A take ramp on the left to WA-823 N toward Selah (0.2 miles)
4. Continue on WA-823 (Yakima River Cyn) (0.26 miles)
5. At fork keep left on WA-823 N toward Selah (0.9 miles)
6. Turn right at S 1st St / W Valleyview Ave to stay on WA823 (Wenas Ave) (0.43 miles)
7. Bear right on N Wenas Rd (WA-823) (1.24 miles)
8. At fork keep left on N Wenas Rd (WA-823) (1.14 miles)
9. Turn right on Nagler Rd (1.4 miles)
10. Bear right on Ames Road just before Rome Rd (0.1)
11. Finish at 1199 Ames Road, 98942, on the left
Entrance to the Taylor Canal

**Position - Location:** 46° 41.549', -120° 29.524'  
46° 41' 32.9", -120° 29' 31.4"  
46.69248, -120.49206  
Selah

**Strategy Objective:** Diversion: Divert oil into entrance of Taylor Canal for collection

**Implementation:** Using hand launch workboat, secure end of 300 ft of boom mid-channel on the Yakima River at/near Point A (46.693115, -120.491707). Extend boom downstream toward river right, securing it at/near Point B (46.692916, -120.4919). Then extend remaining boom downstream, securing it to the spit of land at/near Point C (46.692306, -120.491956). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

**Staging Area:** Onsite: Stage at parking area for Taylor Canal head gate

**Site Safety:** Water Hazard; Slips, Trips, Falls; Heavy Vegetation.

**Field Notes:** Hand launch onsite above the Taylor Canal headgate, being mindful of boom deployed for YAK-122.15R. Notify the US Bureau of Reclamation at 509-406-3031 before deployment. Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Below a Dam - Yakima River, 5.8 miles downstream of the Roza Dam, at the entrance to the Taylor Canal

**Resources at Risk:** Riparian Habitat, Waterfowl and Salmonid Concentrations and Habitat

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**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
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<td>Anchoring System(s)</td>
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<tr>
<td>Bolt Cutters</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>300 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - (hand-launch)</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Operator</td>
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<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Entrance to the Taylor Canal

YAK-122.2M Photo: Upstream view taken from spit of land adjacent to Taylor Canal head gate

**Site Contact**

**US Bureau of Reclamation**
Land/Property Contact: Yakima Field Office Manager
Yakima, WA 98901-2058
509-406-3031

**Nearest Address**

1199 Ames Road
Selah, WA 98942

**Driving Directions**

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (72 miles)
3. At exit 30A take ramp on the left to WA-823 N toward Selah (0.2 miles)
4. Continue on WA-823 (Yakima River Cyn) (0.26 miles)
5. At fork keep left on WA-823 N toward Selah (0.9 miles)
6. Turn right at S 1st St / W Valleyview Ave to stay on WA823 (Wenas Ave) (0.43 miles)
7. Bear right on N Wenas Rd (WA-823) (1.24 miles)
8. At fork keep left on N Wenas Rd (WA-823) (1.14 miles)
9. Turn right on Nagler Rd (1.4 miles)
10. Bear right on Ames Road just before Rome Rd (0.1)
11. Finish at 1199 Ames Road, 98942, on the left
Roza Diversion Dam


Strategy Objective: Collection: Collect oil moving downstream on the Yakima River on river right

Implementation: Using workboat, secure end of 500 ft of boom on river left at/near Point A (46.752339, -120.465924). Extend boom downstream to mid-channel, securing it at/near Point B (46.751847, -120.466482). Extend remaining boom to river right, securing it at/near Point C (46.751053, -120.466664). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

Staging Area: Onsite: Stage equipment and use boat launch onsite at the Roza Recreation Area (SA-YAK-129.4L & BL-YAK-129.4L)

Site Safety: Water Hazard; Active RR Tracks; Do Not Cross Boat Safety Cable Above Dam; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate access/safety with USBOR (509-406-3031); stay upstream of Dam's safety cable.

Watercourse: River - Above a Dam - Yakima River, 0.5 miles upstream of Roza Diversion Dam

Resources at Risk: Canyon/Riparian Habitat, Fish Ladder(s), Fish Pens, Freshwater Wildlife, Public Lands/Facilities

Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>6 Each</td>
<td></td>
</tr>
<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Bolt Cutters</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>500 Feet</td>
<td></td>
</tr>
<tr>
<td>Bridle(s) - Towing (appropriately sized for boom)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Line - 3/8” poly line</td>
<td>100 Feet</td>
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</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Operator</td>
</tr>
<tr>
<td>Laborer</td>
</tr>
<tr>
<td>Supervisor</td>
</tr>
</tbody>
</table>
Roza Diversion Dam

YAK-128.05R Photo: View of anchor point A, forming the collection pocket, above Roza Diversion Dam

Site Contact
US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager
509-406-3031

BNSF Railroad
Emergency Contact: Service Interruption Desk
817-352-2832

Nearest Address
6624 WA 821
Yakima, WA 98901

Driving Directions
1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (73.34 miles)
3. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
4. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
5. Make sharp left on WA-821 (Firing Center Rd) (6 miles)
6. Turn left onto driveway to the Dam, keep left until you pass over the dam then bear right to drive between the fence and the railroad right of way.
7. Finish at the Roza Dam 6624 WA 821, 98901
Roza Recreation Area

**Position - Location:** 46° 45.830', -120° 27.439' 46° 45' 49.8", -120° 27' 26.3" 46.76383, -120.45731 Yakima

**Strategy Objective:** Collection: Collect oil moving downstream on the Yakima River on river right

**Implementation:** Using workboat, secure end of 300 ft of boom to river left, upstream of the boat launch, at/near Point A (46.764207, -120.457644). Extend boom downstream to mid-channel, securing it at/near Point B (46.764019, -120.457858). Then extend remaining boom to river right, securing it at/near Point C (46.763431, -120.457264). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use skimmer/storage to collect oil at/near Point C.

**Staging Area:** Remote: Stage equipment and use boat launch onsite at the Roza Recreation Area (SA-YAK-129.4L & BL-YAK-129.4L)

**Site Safety:** Water Hazard; Active RR Tracks; Dangerous Animals\Snakes; Slips, Trips, Falls; Vehicle/Boat/Pedestrian Traffic; Heavy Vegetation

**Field Notes:** Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Coordinate park access with USBLM (509-665-2100). Yakima River has extreme variability in seasonal flow.

**Watercourse:** River - Above a Dam - Yakima River, 1.4 miles above Roza Dam

**Resources at Risk:** Boat Launch/Ramp, Federally Protected Area/Lands, Freshwater Wildlife, Recreational Use Area

### Recommended Equipment

- **3 Each** Anchoring System(s) - (anchor, lines, floats)
- **2 Each** Anchoring System(s) - Shoreside
- **1 Each** Bolt Cutters
- **300 Feet** Boom - B3 (River Boom) or equivalent
- **1 Each** Bridle(s) - Towing (appropriately sized for boom)
- **2 Each** Heaving Line(s)
- **1 Each** Machete(s) - (or other vegetation cutting tool)
- **1 Each** Skimmer (appropriately sized) with Portable Storage
- **1 Each** Workboat(s) - of adequate size for type and amount of boom

### Recommended Personnel

- **1 Boat Operator**
- **2 Laborer**
- **1 Supervisor**
Roza Recreation Area

YAK-129.4R Photo: View of anchor point B across the river from the boat launch at Roza Rec Area

**Site Contact**

**Bureau of Land Management**
Primary Contact: Wenatchee Office
509-665-2100

**BNSF Railroad**
Land/Property Contact: Service Interruption Desk
817-352-2832

**Nearest Address**

8681 Canyon Rd
Yakima, WA 98901

**Driving Directions**

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK129.4L/BL-YAK-129.4L) Roza Recreation Area**

1. Head west from Richland go on I-82 W / US-12 W toward Prosser / Yakima (73.34 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (7 miles)
5. Finish at Roza Recreation Area, 8681 Canyon Rd, 98901, on the left
Lower Yakima RiverGRP

Roza Recreation Area

Position - Location: 4° 41.389', 14° 50.129' 4° 41’ 23.3”, 14° 50’ 7.7” 4.68981, 14.83548

Strategy Objective: Deflection: Keep oil away from park shoreline on river left

Implementation: Using workboat, secure end of 400 ft of boom to river left, upstream of Roza Recreation Area, at/near Point A (46.766426, -120.455389). Extend boom downstream to mid-channel, securing it at/near Point B (46.766444, -120.456933). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions.

Watercourse:
River: Above a Dam - Yakima River, 1.4 miles above the Roza Dam

Resources at Risk:
Federally Protected Area/Lands, Freshwater Wildlife, Recreational Use Area, Sensitive Resources, Waterfowl and Salmonid Concentrations and Habitat

Recommended Equipment

- Anchoring System(s) - (anchor, lines, floats)
- Anchoring System(s) - Shoreside
- Boom - B3 (River Boom) or equivalent
- Bridle(s) - Towing (appropriately sized for boom)
- Machete(s) - (or other vegetation cutting tool)
- Workboat(s) - of adequate size for type and amount of boom

Recommended Personnel

- Boat Operator
- Laborer
- Supervisor

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Appendix 4A

357
Roza Recreation Area

YAK-129.8L Photo: View of shoreside anchor point at Roza Recreation Area

Site Contact

Bureau of Land Management
Land/Property Contact: Wenatchee Office
509-665-2100

BNSF Railroad
Emergency Contact: Service Interruption Desk
817-352-2832

Nearest Address

8681 Canyon Rd
Yakima, WA 98901

Driving Directions

1. Start at Hwy 82 Richland, WA
2. Go southeast on George Washington Way (WA-240-BR) (0.78 miles)
3. Bear right onto ramp to I-182 toward Pasco / Yakima (0.1 miles)
4. At fork keep right toward I-82 W / Yakima / Pendleton (4.5 miles)
5. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (73.34 miles)
6. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
7. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
8. Make sharp left on WA-821 (Firing Center Rd) (7 miles)
9. Finish at Roza Recreation Area, 8681 Canyon Rd, 98901, on the left
Mile Post 8 Boat Launch

**Position - Location:**
- YAK-130.6L
- Yakima

**Strategy Objective:**
Collect oil moving downstream on the Yakima River on river left

**Implementation:**
Using workboat, secure end of 500 ft of boom to river right at/near Point A (46.775403, -120.454293). Extend boom downstream to mid-channel, securing at/near Point B (46.77556, -120.45373). Then extend remaining boom to river left, next to boat launch, securing it at/near Point C (46.775368, -120.452578). Use shoreside anchoring systems or existing features to secure boom to banks. Use anchoring systems to keep boom secure in water. Adjust boom angle and quantity/placement of anchors as needed, based on streamflow and conditions. Use vac truck or skimmer/storage to collect oil at/near Point C.

**Staging Area:**
Remote: Stage equipment & use onsite Mile Post 8 boat launch (SA-YAK-130.6 & BL-YAK-130.6)

**Site Safety:**
Water Hazard; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:**
Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Yakima River has extreme variability in seasonal flows.

**Watercourse:**
River - Above a Dam - Yakima River, 2.6 miles upstream of Roza Dam

**Resources at Risk:**
Boat Launch/Ramp, Freshwater Wildlife, General Fish and Wildlife Resources

**Recommended Equipment**
- 6 Each Anchoring System(s) - (anchor, lines, floats)
- 2 Each Anchoring System(s) - Shoreside
- 500 Feet Boom - B3 (River Boom) or equivalent
- 1 Each Bridle(s) - Towing (appropriately sized for boom)
- 2 Each Heaving Line(s)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**
- 1 Boat Operator
- 3 Laborer
- 1 Supervisor
YAK-130.6L Photo: View of the area upstream of the boat launch where boom line is to be placed for YAK-130.6L

**Site Contact**

**WDFW Region 3 South Central**
Emergency Contact: Management agency for water access site
509-575-2740

**Nearest Address**

70 Roza View Drive
Yakima, WA 98901

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-130.6L/BL-YAK-130.6L) Mile Post 8 Boat Launch

1. Head west from West Richland on I-82 W (67.06 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (8.31 miles)
5. Turn left at Roza View Dr (0.01 miles)
6. Finish at Mile Post 8 boat launch (across the Canyon Road from 70 Roza View Dr, 98901), on the left
**Chandler Canal Boat Launch Above the Power Plant**

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 16.094', -119° 35.536'</th>
<th>46° 16' 5.7&quot;, -119° 35' 32.2&quot;</th>
<th>46.26824, -119.59227</th>
<th>Benton City</th>
</tr>
</thead>
</table>

**Strategy Objective:** Collection: Collect oil moving downstream on the Chandler Canal

**Implementation:** Secure end of 100 ft of boom to bank on canal left, ~75 ft upstream from the boat launch, at/near Point A (46.268338, -119.592339.). Using line, extend boom across to canal right, pull tight, and secure to NW corner of boat launch at/near Point B (46.268183, -119.592019). Use shoreside anchors or existing features to secure boom to banks. Back hard boom with sorbents for collection. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection at Point B.

**Staging Area:** Onsite: Stage on site, small gravel parking lot

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls

**Field Notes:** Parking area at Chandler Canal Boat Launch above Chandler Power Plant. Notify US Bureau of Reclamation at 509-406-3031 if deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flows.

**Watercourse:** Canal - Yakima River, Chandler Canal, 11.1 miles downstream of the Chandler Diversion Dam

**Resources at Risk:** General Fish and Wildlife Resources, Power Generation, Riparian Habitat

**Recommended Equipment**

- 2 Each Anchoring System(s)- Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 2 Each Heaving Line(s)
- 100 Feet Line - 3/8” poly line
- 1 Each Line throwing gun(s) or device(s)
- 1 Each Vac Truck or Skimmer and Storage

**Recommended Personnel**

- 2 Laborer
- 1 Supervisor
YAKCC-35.8 Photo: View of the Chandler Canal taken from the boat launch looking upstream where YAKCC-35.8L is to be deployed

**Site Contact**

US Bureau of Reclamation  
Land/Property Contact: Yakima Field Office Manager

Yakima, WA 98901-2058  
509-406-3031

**Nearest Address**

47400 W Old Inland Empire Hwy  
Benton City, WA 99320

**Driving Directions**

1. Head west from West Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (7.58 miles)
5. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
6. Turn right on 1st St (WA-224) (0.44 miles)
7. Continue on Babs Ave (WA-225) (0.47 miles)
8. Continue on 9th St (WA-225) (0.04 miles)
9. Turn left on Babs Ave (0.42 miles)
10. Bear right on 14th St (0.19 miles)
11. Turn left on N Kendall Rd NW (1.08 miles)
12. Turn left on W Old Inland Empire Hwy and turn right into the boat ramp parking area immediately after crossing the Chandler Canal (5.0 miles)
13. Finish at 47400 W Old Inland Empire Hwy, 99320, on the right
**West Hess Road Bridge Crossing Chandler Canal**

<table>
<thead>
<tr>
<th>Strategy Objective</th>
<th>Collection</th>
<th>Collect oil moving downstream on the Chandler Canal</th>
</tr>
</thead>
</table>

**Implementation:**
Secure end of 100 ft of boom to bank on canal left, ~75 ft upstream of the bridge, at/near Point A (46.228186, -119.687194). Using line, extend boom across to canal right, pull tight, and secure to the SE corner of the bridge at/near Point B (46.228448, -119.687073). Use shoreside anchors or existing features to secure boom to banks. Back hard boom with sorbents for collection. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection at Point B.

**Staging Area:**
Onsite - Stage on the pull-off at the West Hess Road Bridge crossing the Chandler Canal

**Site Safety:**
Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls

**Field Notes:**
Notify the US Bureau of Reclamation at 509-406-3031 if deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flows.

**Watercourse:**
Canal - Yakima River, Chandler Canal, 4.55 miles downstream of the Chandler Diversion Dam

**Resources at Risk:**
Public Health and Safety, Public Lands/Facilities

**Recommended Equipment**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchoring System(s)</td>
<td>2 Each</td>
<td>Shoreside</td>
</tr>
<tr>
<td>100 Feet Boom - B3</td>
<td>100 Feet</td>
<td>River Boom or equivalent</td>
</tr>
<tr>
<td>100 Feet Boom - Sorbent</td>
<td>2 Each</td>
<td>Line - 3/8” poly line</td>
</tr>
<tr>
<td>200 Feet Line - 3/8” poly line</td>
<td>1 Each</td>
<td>Line throwing gun(s) or device(s)</td>
</tr>
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**Recommended Personnel**

<table>
<thead>
<tr>
<th>Personnel Type</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
West Hess Road Bridge Crossing Chandler Canal

YAKCC-42.35 Photo: View of the location for YAKCC-42.35 from the SE corner of the bridge

Site Contact

US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

92901 West Hess Road
Prosser, WA 99350

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (7.58 miles)
2. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.85 miles)
6. Continue on Horne Dr (WA-225) (0.23 miles)
7. Turn left on W Old Inland Empire Hwy (Hazel Ave) (10.49 miles)
8. Turn left on W Hess Rd (0.75 miles)
9. Finish at 92901 West Hess Road, 99350, on the left
North Bunn Road Bridge Over Chandler Canal

Position - Location: 46° 13.417', -119° 44.236'  

Strategy Objective: Collection : Collect oil moving downstream on the Chandler Canal

Implementation: Using workboat, secure 300 ft of boom to bank on canal left at/near Point A (46.2235, -119.7378). Extend boom downstream and across to canal right, securing it at/near Point B (SW corner of bridge). Extend remaining boom from Point B across canal and secure end at/near Point C (NW corner of bridge). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection.

Staging Area: Onsite : Room to stage along the road, bathroom available at the Yakama Nation Fish Hatchery across the street.

Site Safety: Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Boat launch at NW corner of bridge at/near Point C. Notify US Bureau of Reclamation at 509-406-3031 if deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flow.

Watercourse: Canal - Yakima River, Chandler Canal, 1.9 miles downstream of the Chandler Diversion Dam

Resources at Risk: Public Health and Safety, Public Lands/Facilities

Recommended Equipment

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
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<tbody>
<tr>
<td>2 Each</td>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
</tr>
<tr>
<td>3 Each</td>
<td>Anchoring System(s)- Shoreside</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Boom - B3 (River Boom) or equivalent</td>
</tr>
<tr>
<td>300 Feet</td>
<td>Boom - Sorbent</td>
</tr>
<tr>
<td>1 Each</td>
<td>Machete(s) - (or other vegetation cutting tool)</td>
</tr>
<tr>
<td>1 Each</td>
<td>Vac Truck or Skimmer and Storage</td>
</tr>
<tr>
<td>1 Each</td>
<td>Workboat(s) - of adequate size for type and amount of boom</td>
</tr>
</tbody>
</table>

Recommended Personnel

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Boat Operator</td>
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<tr>
<td>2</td>
<td>Laborer</td>
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<tr>
<td>1</td>
<td>Supervisor</td>
</tr>
</tbody>
</table>
North Bunn Road Bridge Over Chandler Canal

YAKCC-45.0 Photo: View of boat ramp on canal left, taken from anchor point B at the bridge on canal right

Site Contact

US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

6201 N Bunn Rd
Prosser, WA 99350

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (24.06 miles)
2. At exit 80 take ramp on the right to Gap Rd toward Prosser (0.37 miles)
3. Turn right on N Gap Rd (0.4 miles)
4. Turn right on W Johnson Rd (1.05 miles)
5. Continue on W Old Inland Empire Hwy (1.46 miles)
6. Turn right on N Bunn Rd (0.34 miles)
7. Finish at 6201 N Bunn Rd, 99350, on the left
Chandler Canal Fish Screen

**Position - Location:** 46° 12.956', -119° 45.575'  46° 12' 57.3'', -119° 45' 34.5''  46.21593, -119.75958

**Strategy Objective:** Collection: Collect oil moving downstream on the Chandler Canal

**Implementation:** Using workboat, secure 300 ft of boom to bank on canal left at/near Point A (46.215782, -119.760377). Extend boom downstream and across to canal right, securing it at/near Point B (upstream of fish screen). Extend remaining boom from Point B across canal and secure end at/near Point C (NW of launch). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection.

**Staging Area:** Onsite: Room to stage along the road, bathroom available at the Prosser Water Treatment facility across the street

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Launch for canal located on upstream side of fish ladder. Notify US Bureau of Reclamation at 509-406-3031 if deploying strategy. Yakima River, and associated canals, have extreme variability in seasonal flows.

**Watercourse:** Canal  - Yakima River, Chandler Canal, 0.75 miles downstream of the Chandler Diversion Dam

**Resources at Risk:** Fish and Wildlife Resources, Public Health and Safety, Public Lands/Facilities

**Recommended Equipment**

- 3 Each Anchoring System(s) - (anchor, lines, floats)
- 3 Each Anchoring System(s)- Shoreside
- 300 Feet Boom - B3 (River Boom) or equivalent
- 300 Feet Boom - Sorbent
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage
- 1 Each Workboat(s) - of adequate size for type and amount of boom

**Recommended Personnel**

- 1 Boat Operator
- 2 Laborer
- 1 Supervisor
Chandler Canal Fish Screen

YAKCC-46.15R Photo: View of the Chandler Canal boat launch just upstream of the screening facility

Site Contact

US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

999 Grande Road Way
Prosser, WA 99350

Driving Directions

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles)
8. Cross the bridge and turn left on service road to strategy location (0.1 miles)
9. Finish at 999 Grande Road Way, 99350, on the left
**Position - Location:** 46° 19.841', -120° 11.993'  
46° 19' 50.4", -120° 11' 59.6"  
46.33068, -120.19988  
Toppenish

**Strategy Objective:** Collect oil moving downstream on the Marion Drain which leads to the Yakima River

**Implementation:** Secure end of 100 ft of boom to bank on canal right, under the bridge on the upstream side, at/near Point A (46.228, -119.687). Using line, walk boom across bridge to canal right, pull tight, and secure to shore at the SW corner of the bridge at/near Point B. Secure the remaining 50ft of boom on the downstream side of the bridge on the NW side. Use shoreside anchors or existing features to secure boom to banks. Back hard boom inside V with sorbent boom for collection. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection at point B.

**Staging Area:** Onsite: Stage next to the canal on the south side of the intersection with WA 223 and Indian Church Road.

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Notify Yakima Nation at 509-945-2939 before deployment, site is on tribal land. Yakima River, and associated canals, have extreme variability in seasonal flow.

**Watercourse:** Canal - Yakima River, Marion Drain, 0.23 miles before it reaches the Yakima River

**Resources at Risk:** Creek Habitat, Riparian Area, Tribal Lands/Resources, Waterfowl and Salmonid Concentrations and Habitat

**Recommended Equipment**

- 3 Each Anchoring System(s)- Shoreside
- 100 Feet Boom - B3 (River Boom) or equivalent
- 100 Feet Boom - Sorbent
- 2 Each Heaving Line(s)
- 200 Feet Line - 3/8” poly line
- 1 Each Line throwing gun(s) or device(s)
- 1 Each Machete(s) - (or other vegetation cutting tool)
- 1 Each Vac Truck or Skimmer and Storage

**Recommended Personnel**

- 2 Laborer
- 1 Supervisor

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**Source:** Earl.

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**Appendix 4A**
Indian Church Road bridge at Marion Drain (Canal)  

YAKMC-82.6 Photo: View of anchor point B taken from SW side of the bridge near anchor point C

**Site Contact**

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
509-945-2939

**Wapato Irrigation District (Bureau of Indian Affairs)**  
Land/Property Contact: Emergency contact  
509-877-3155 ext. 3

**Nearest Address**

1340 Indian Church Road  
Toppenish, WA 98932

**Driving Directions**

1. Head west from West Richland on I-82 W toward Yakima (45.47 miles)  
2. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)  
3. Turn left on WA-223 (Vanbelle Rd) (1.58 miles)  
4. Turn left on Indian Church Rd and stop before crossing the bridge over the canal (0.1 miles)  
5. Finish at 1300 Indian Church Road, 98932, on the left
## Burke Road Bridge Crossing Sunnyside Canal  
**YAKSC-103.0**

### Position - Location:
- 46° 29.635′, -120° 25.475′
- 46° 29′ 38.1″, -120° 25′ 28.5″
- 46.49392, -120.42458
- Wapato

### Strategy Objective:
Collect oil moving downstream on the Sunnyside Canal

### Implementation:
Secure end of 100 ft of boom to bank on canal right, on the downstream side of the bridge, at/near Point A (46.493841, -120.42476). Using line, extend boom across to canal left, pull tight, and secure to shore at/near Point B (46.493865, -120.424257). Use shoreside anchors or existing features to secure boom to banks. Back hard boom with sorbents. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection.

### Staging Area:
Onsite: Paved road with room for parking on the dirt/gravel shoulders.

### Site Safety:
Water Hazard; Dangerous Animals (Snakes); Slips, Trips, Falls

### Field Notes:
Notify the Sunnyside Valley Irrigation District at 509-837-6980 if deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flow.

### Watercourse:
Canal - Yakima River, Sunnyside Canal, 0.85 miles downstream of the Sunnyside Diversion Dam

### Resources at Risk:
Public Health and Safety, Public Lands/Facilities

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity/Units</th>
</tr>
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<tbody>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
</tr>
<tr>
<td>Boom - Sorbent</td>
<td>100 Feet</td>
</tr>
<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
</tr>
<tr>
<td>Line - 3/8” poly line</td>
<td>200 Feet</td>
</tr>
<tr>
<td>Line throwing gun(s) or device(s)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
</tr>
</tbody>
</table>

### Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Burke Road Bridge Crossing Sunnyside Canal

YAKSC-103.0 Photo: No Photo Available

Site Contact

Sunnyside Valley Irrigation District
Land/Property Contact: Manages Sunnyside Diversion Dam & canal

Sunnyside, WA 98944
509-837-6980

Nearest Address

80 Burke Road
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (59.72 miles)
2. At exit 44 take ramp on the right toward Wapato (0.4 miles)
3. Turn right on Donald Wapato Rd (0.39 miles)
4. Turn left on Yakima Valley Hwy (1.81 miles)
5. Bear right adjacent to Burke Rd just before the bridge (0 miles)
6. Finish at 80 Burke Road, 98951, on the right
Sunnyside Canal Fish Screen

**Position - Location:** 46° 29' 8.10", -120° 26.456'  
46° 29' 48.6", -120° 26' 27.4"  
46.49683, -120.44094  
Wapato

**Strategy Objective:** Collection: Collect oil moving downstream on the Sunnyside Canal

**Implementation:** Secure end of 200 ft of boom to bank on canal right at/near Point A (46.49691, -120.44139). Using line, extend boom downstream and across to canal left, securing it at/near Point B (upstream of fish screen). Extend remaining boom from Point B across canal and secure end at/near Point C. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection at Point B.

**Staging Area:** Onsite: Stage onsite on either side of the facility, but bring vac truck or skimmer/storage to the N side of the canal

**Site Safety:** Water Hazard; Dangerous Animals/Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Contact the Sunnyside Irrigation District 509-837-6980 for gate and facility access before deploying this strategy. Yakima River, and associated canals, have extreme variability in seasonal flow.

**Watercourse:** Canal - Yakima River, Sunnyside Canal, 2.15 miles downstream of the Sunnyside Diversion Dam

**Resources at Risk:** Fish Screens, Public Health and Safety, Public Lands/Facilities

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>3 Each</td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>200 Feet</td>
</tr>
<tr>
<td>Boom - Sorbent</td>
<td>200 Feet</td>
</tr>
<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
</tr>
<tr>
<td>Line - 3/8” poly line</td>
<td>200 Feet</td>
</tr>
<tr>
<td>Line throwing gun(s) or device(s)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
</tr>
<tr>
<td>Winch - Come-A-Long</td>
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### Recommended Personnel

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<th>Role</th>
<th>Quantity</th>
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<td>Laborer</td>
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<tr>
<td>Supervisor</td>
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</tr>
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</table>
**Sunnyside Canal Fish Screen**

**YAKSC-103.6**

**Site Contact**

**Sunnyside Valley Irrigation District**
Land/Property Contact: Manages Sunnyside Diversion Dam & canal

Sunnyside, WA 98944
509-837-6980

**Nearest Address**

1775 Yakima Valley Hwy
Wapato, WA 98951

**Driving Directions**

1. Head west from West Richland on I-82 W toward Yakima (59.72 miles)
2. At exit 44 take ramp on the right toward Wapato (0.4 miles)
3. Turn right on Donald Wapato Rd (0.39 miles)
4. Turn left on Yakima Valley Hwy (2.49 miles)
5. Cross under the expressway and take the first left into the Sunnyside Irrigation District fish screen facility
6. Finish at 1775 Yakima Valley Hwy, 98951
**Tree Top Water Treatment Facility**

**Position - Location:** 46° 40.703', -120° 29.833'  
46° 40' 42.2", -120° 29' 50.0"  
46.67838, -120.49722  
Selah

**Strategy Objective:** Collection: Collect oil moving downstream on the Taylor Canal

**Implementation:** Secure end of 100 ft of boom to bank on river right upstream of culvert entrance at/near Point A (46.678389,-120.49724). Using line, extend boom downstream, across canal, securing it to bank at/near Point B (46.678307, -120.497351). Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow and environmental conditions. If oil collecting beyond sorbent's capacity, use vac-truck or skimmer/storage for collection.

**Staging Area:** Onsite: Gravel drive with room for staging, no facilities

**Site Safety:** Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls; Heavy Vegetation

**Field Notes:** Gated drive, call Tree Top Water Treatment Facility at 509-449-3054 to gain access. Yakima River, and associated canals, have extreme variability in seasonal flow.

**Watercourse:** Canal - Yakima River, Taylor Canal, 0.93 miles downstream from the Taylor Canal Headgate

**Resources at Risk:** Public Health and Safety, Public Lands/Facilities

### Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchoring System(s)- Shoreside</td>
<td>2 Each</td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>100 Feet</td>
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<td>Machete(s) - (or other vegetation cutting tool)</td>
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### Recommended Personnel

<table>
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<tr>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selah</td>
</tr>
</tbody>
</table>

![Map of Tree Top Water Treatment Facility]
Tree Top Water Treatment Facility

Site Contact

Tree Top Inc. Water Treatment
Emergency Contact: Facility Manager
509-449-3054

Nearest Address

1500 Harrison Rd
Selah, WA 98942

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (74.99 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (0.32 miles)
5. Make sharp left on Harrison Rd (WA-823) toward WA-823 S / Selah (1.0 miles)
6. Turn left, before the railroad bridge, onto gravel drive to Tree Top Water Treatment, go through gate and stop at culvert (0.1 miles)
7. Finish at 1500 Harrison Rd, 98942, on the left
Lateral A Road and Wapato Canal

**Position - Location:**
46° 30.425', -120° 28.677'
46° 30' 25.5", -120° 28' 40.6" 46.50708, -120.47795

**Strategy Objective:**
Collection: Collect oil moving downstream on the Wapato Canal

**Implementation:**
Secure 300 ft of boom to bank on canal right at/near Point A (46.5074, -120.47793). Using line, extend boom downstream and across to canal left, securing it at/near Point B (46.50695, -120.4779). Extend remaining boom from Point B upstream across culvert on canal left and secure end at/near Point C. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection.

**Staging Area:**
Onsite: Stage at the intersection of two farm roads on canal left, area provides ample room for parking

**Site Safety:**
Water Hazard; Dangerous Animals\Snakes; Slips, Trips, Falls

**Field Notes:**
Notify Yakima Nation before deployment at 509-945-2939, site is on tribal land. Yakima River has extreme variability in seasonal flow.

**Watercourse:**
Canal - Yakima River, Wapato Canal, 1.85 miles downstream from the Wapato Diversion Dam

**Resources at Risk:**
Public Health and Safety, Tribal Lands/Resources

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**Recommended Equipment**

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<td>Boom - B3 (River Boom) or equivalent</td>
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<td>Boom - Sorbent</td>
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<td>Line - 3/8” poly line</td>
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<tr>
<td>Line throwing gun(s)</td>
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</tr>
<tr>
<td>Winch - Come-A-Long</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Personnel**

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Lateral A Road and Wapato Canal

YAKWAP-104.65

No Photograph Available

YAKWAP-104.65 Photo: No Photo Available

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

Wapato Irrigation District (Bureau of Indian Affairs)
Land/Property Contact: Emergency contact
509-877-3155 ext. 3

Nearest Address

760 Lateral A Rd
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.35 miles)
5. Turn right on Parker Bridge Rd (0.72 miles)
6. Turn left on N Track Rd (0.2 miles)
7. Make sharp right on 2nd Ave (0.11 miles)
8. Make sharp left on US-97 S (US Highway 97) (0.31 miles)
9. Make sharp right on 5th Ave (0.26 miles)
10. Bear left on Yakima St (0.04 miles)
11. Turn right on Lundberg Rd (0.5 miles)
12. Turn right on Lateral A Rd (0.36 miles)
13. Turn right again just before the bridge onto a gravel/dirt track that runs parallel to the canal and will take you directly to the strategy location (0.15 miles)
14. Finish at 760 Lateral A Rd, 98951, on the left
Wapato Fish Screens

Position - Location: 46° 31.099', -120° 28.724'  46° 31' 6.0", -120° 28' 43.4"  46.51832, -120.47873  Wapato

Strategy Objective: Collect oil moving downstream on the Wapato Cana

Implementation: Secure 300 ft of boom to bank on canal left upstream of fish ladder at/near Point A (46.5074, -120.47793). Using line, extend boom downstream and across to canal right, securing it at/near Point B (46.5186, -120.47864). Extend remaining boom from Point B across the canal and secure end at/near Point C. Back hard boom with sorbent. Use shoreside anchoring systems or existing features to secure boom to banks. Adjust boom angle and quantity/placement of anchors as needed, based on stream flow conditions. If oil collecting beyond sorbent’s capacity, use vac-truck or skimmer/storage for collection.

Staging Area: Onsite: Stage equipment in gravel parking area adjacent to Wapato Fish Screen

Site Safety: Water Hazard; Active Railroad; Slips, Trips, Falls; Heavy Vegetation

Field Notes: Call BNSF before deployment (817-352-2832); coordinate with BNSF On-Call Hazmat Manager. Notify Wapato Dam (509-877-3155 x3). Notify Yakama Nation (509-945-2939); strategy is on tribal land.

Watercourse: River - Side Channel - Yakima River, Wapato Canal, 0.3 miles downstream from the Wapato Diversion Dam

Resources at Risk: Economic Resource, Fish Ladder(s)

Recommended Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchoring System(s) - (anchor, lines, floats)</td>
<td>3 Each</td>
<td></td>
</tr>
<tr>
<td>Anchoring System(s) - Shoreside</td>
<td>3 Each</td>
<td></td>
</tr>
<tr>
<td>Boom - B3 (River Boom) or equivalent</td>
<td>300 Feet</td>
<td></td>
</tr>
<tr>
<td>Boom - Sorbent</td>
<td>300 Feet</td>
<td></td>
</tr>
<tr>
<td>Heaving Line(s)</td>
<td>2 Each</td>
<td></td>
</tr>
<tr>
<td>Line - 3/8” poly line</td>
<td>200 Feet</td>
<td></td>
</tr>
<tr>
<td>Line throwing gun(s) or device(s)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Machete(s) - (or other vegetation cutting tool)</td>
<td>1 Each</td>
<td></td>
</tr>
<tr>
<td>Vac Truck or Skimmer and Storage</td>
<td>1 Each</td>
<td></td>
</tr>
</tbody>
</table>

Recommended Personnel

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laborer</td>
<td>2</td>
</tr>
<tr>
<td>Supervisor</td>
<td>1</td>
</tr>
</tbody>
</table>
Wapato Fish Screens

No Photograph Available

YAKWAP-106.2

Photo: No Photo Available

YAKWAP-106.2

Nearest Address

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

BNSF Railroad
Land/Property Contact: Service Interruption Desk
817-352-2832

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.35 miles)
5. Turn right on Parker Bridge Rd (0.72 miles)
6. Turn left on N Track Rd (0.2 miles)
7. Make sharp right on 2nd Ave (0.1 miles)
8. Turn right on US-97 N (US Highway 97) (0.8 miles)
9. Turn right onto gravel drive as soon as you cross the Wapato Canal and follow until you reach
the fish screen (0.3 miles)
10. Finish at 74280 US 97, 98951, on the right

Appendix 4A
APPENDIX 4B
Notification Strategy 2-Pagers
# NOTIFICATION STRATEGIES - LIST

<table>
<thead>
<tr>
<th>NACH-3.7R-N</th>
<th>NACH-9.85L-N</th>
<th>YAK-32.45L-N</th>
</tr>
</thead>
<tbody>
<tr>
<td>YAK-46.1L-N</td>
<td>YAK-103.85L-N</td>
<td>YAK-114.75-N</td>
</tr>
</tbody>
</table>
City of Yakima Water Intake

Position - Location: 46° 37.887', -120° 35.231'  46° 37' 53.2", -120° 35' 13.8"  46.63145, -120.58718  Yakima

Strategy Objective: Notification: Notify City of Yakima about spill so they can take timely action to protect the resources under their control.

Implementation: Notify the City of Yakima by calling 509-575-6154

Field Notes: City of Yakima water intakes include: Nelson Bridge 46.6314, -120.5871, on W. Powerhouse Road and Fruitdale Canal 46.6285, -120.5730, Hwy 12 and Clover Lane

Watercourse: River - Above a Dam - Naches River, upstream of the Nelson Diversion Dam


Communication Process and Action:

Call City of Yakima's Water and Irrigation Department at 509-575-6154 and inform them and the Irrigation Supervisor of any significant oil spill or potential spill that impacts or threatens to impact the Naches River upstream of river mile 3.7. The City of Yakima will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control, including the protection of water intakes in the area.
City of Yakima Water Intake

NACH-3.7R-N Photo: View of the City of Yakima water intake at the Nelson Bridge

Site Contact

City of Yakima Irrigation
Primary Contact: Responsible for Water Intakes
Yakima, WA 98908
509-575-6154

Nearest Address

5501 W. Powerhouse Road
Yakima, WA 98908

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (3.95 miles)
4. Turn left on Ackley Rd (0.07 miles)
5. Turn right on W Powerhouse Rd (0.03 miles)
6. Finish 0.3 miles past 5501 W. Powerhouse Road, 98908, on the right - City of Yakima Water Intake at the Nelson Diversion Dam.
**Yakima City Water Intake & Water Treatment Plant**

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 41.716', -120° 39.238'</th>
<th>46° 41' 43.0&quot;, -120° 39' 14.3&quot;</th>
<th>46.69527, -120.65397</th>
</tr>
</thead>
</table>

**Strategy Objective:** Notify the City of Yakima about the spill so they can take timely action to protect the resources under their control

**Implementation:** Notify the City of Yakima by calling 509-575-6177

**Field Notes:** Water intake facility is on the Naches River adjacent to HWY 12 at 46.6954, -120.6543. Water Treatment Plant is downstream on the Naches River at 46.68595, -120.65375

**Watercourse:** River - Above a Dam - Naches River, upstream of the Nelson Diversion Dam

**Resources at Risk:** Economic Resource, Public Health and Safety, Public Lands/Facilities, Water Intakes

**Communication Process and Action:**

Call City of Yakima at 509-575-6177 and inform the Supervisor, or Operations Staff, of any significant oil spill or potential spill that impacts or threatens to impact the Naches River upstream of river mile 9.85. The City of Yakima will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control, including the protection of water intakes in the area. Actions may include closing down intake head gate or inflatable weir, and or closing the Water Treatment Plant.
Yakima City Water Intake & Water Treatment Plant

NACH-9.85L-N Photo: View of the City of Yakima's public water intake on the Naches River NACH-9.85R-N

Site Contact

City of Yakima Water Department
Emergency Contact: City Water Intakes & Treatment Plant
Yakima, WA 98908
509-575-6177

Nearest Address
7055 US-12
Naches, WA 98937

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
4. Do a u-turn and go back (0.5 miles) Finish at 7055 US-12, 98937, City of Yakima Water Intake is on the right
<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 16.489', -119° 31.010'</th>
<th>46° 16' 29.4&quot;, -119° 31' 6&quot;</th>
<th>46.27482, -119.51683</th>
<th>Benton City</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strategy Objective:</strong></td>
<td>Notification</td>
<td>Notify the Benton Irrigation District about spill so they can take timely action to protect the resources under their control</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Implementation:</strong></td>
<td>Notify the Benton Irrigation District Manager at 509-947-8908</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Field Notes:** There is also an exclusion strategy designed for this facility YAK-32.45L. Yakima River has extreme variation in seasonal flows.

**Watercourse:** River - Below a Dam - Yakima River, 14.45 miles downstream of the Chandler Diversion Dam

**Resources at Risk:** Fisheries Habitat, Pump Station, Recreational Fishery

**Communication Process and Action:**

Call the Benton Irrigation District at 509-947-8908, and inform the manager of any significant oil spill or potential spill that impacts or threatens to impact the Yakima River upstream of river mile 32.45. The Benton Irrigation District will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control. Actions might include the closure of water intake pumps and fish gates.
Benton Irrigation District Pump Station

YAK-32.45L-N Photo: View of the BID pump house and the top of the fish gate

**Site Contact**

**Benton Irrigation District**  
Primary Contact: Pump Station Manager

Benton City, WA  
509-947-8908

**Nearest Address**

43206 N Whan Rd  
Benton City, WA 99320

**Driving Directions**

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
2. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.04 miles)
6. Turn left on Babs Ave (0.42 miles)
7. Bear right on 14th St (0.19 miles)
8. Turn left on N Kendall Rd NW (1.08 miles)
9. Turn left on W Old Inland Empire Hwy (0.62 miles)
10. Pass N Whan Rd on the right then take the first gravel drive to the left (0.75 miles). Follow the drive back east .75 miles to the pump house.
11. Finish at the Benton Irrigation District Pump Station 13079 W Old Inland Empire Hwy, Benton City, WA 99320, on the left
**Yakama Indian Nation Fish Hatchery**

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 12.920', -119° 45.547'</th>
<th>46° 12' 55.2&quot;, -119° 45' 32.8&quot;</th>
<th>46.21534, -119.75911</th>
<th>Prosser</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Implementation:</strong></td>
<td>Notify the Yakama Indian Nation Fish Hatchery Manager at 509-945-5899, or Foreman at 509-961-9424</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Field Notes:</strong></td>
<td>Yakama Indian Nation Fish Hatchery is located at 46.215332, -119.759144.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Watercourse:</strong></td>
<td>River - Below a Dam - Yakima River, downstream of the Chandler Diversion Dam</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Resources at Risk:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Communication Process and Action:**

Call the Hatchery Manager at 509-945-5899, or Foreman at 509-961-9424, and inform them of any significant oil spill or potential spill that impacts or threatens to impact the Yakima River upstream of river mile 46.1. The Yakima Nation Fish Hatchery management will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control. Actions may include shutting down water intakes or stopping the release of fish during a spill.
Yakama Indian Nation Fish Hatchery

YAK-46.1L-N Photo: View of the sight out front of the Yakama Nation Fish Hatcher in Prosser, WA

Site Contact

Yakama Indian Nation Fish Hatchery
Emergency Contact: Hatchery Managers
509-945-5899

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

Nearest Address

999 Grande Rd
Prosser, WA 99350

Driving Directions

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles)
8. Cross the bridge and turn left on service road to strategy location (0.1 miles)
9. Finish at the Yakama Indian Nation Fish Hatchery 999 Grande Road Way, 99350, on the right
Sunnyside Diversion Dam and Canal Head Gate

Position - Location: 46° 29.902', -120° 26.663'  46° 29' 54.1", -120° 26' 39.8"  46.49837, -120.44438  Wapato

Strategy Objective: Notification: Notify Sunnyside Valley Irrigation District of spill so they can take timely action to protect the resources under their control

Implementation: Notify Sunnyside Valley Irrigation District Manager by calling 509-837-6980

Field Notes: Sunnyside Canal Head Gates are located at 46.49846, -120.44430

Watercourse: River - Below a Dam - Yakima River, at the Sunnyside Diversion Dam


Communication Process and Action:

Contact Sunnyside Valley Irrigation District at 509-837-6980 and inform the manager of any significant oil spill, or potential spill, that impacts or threatens to impact the Yakima River upstream of river mile 103.85. The Sunnyside Valley Irrigation District will determine and take whatever actions they deem necessary and appropriate to protect the resources under their control. Actions may include closing the Sunnyside Canal head gate, or opening the sluice gate to redirect water away from the head gate.
Sunnyside Diversion Dam and Canal Head Gate

YAK-103.85L-N

Site Contact

Sunnyside Valley Irrigation District
Emergency Contact: Manages Sunnyside Diversion Dam & canal
Sunnyside, WA 98944
509-837-6980

Nearest Address

980 Yakima Valley Highway
Wapato, WA 98951

Driving Directions

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn left on Thorp Rd (0.1 miles)
4. Continue on Yakima Valley Hwy (0.73 miles)
5. Turn off and Finish at 980 Yakima Valley Highway, 98951, the Sunnyside Canal Head Gate is on the right
**Position - Location:** 46° 36.978', -120° 28.700'

**Strategy Objective:** Notification : Notify the US Bureau of Reclamation about the spill so they can take timely action to protect the resources under their control

**Implementation:** Call US Bureau of Reclamation Yakima Field Office Operations Manager, at 509-406-3031

**Field Notes:** Individual response strategies located at irrigation facilities will have contact information for those facilities on the 2-pagers found in Appendix 4-A of the YAK-GRP

**Watercourse:** River - Below a Dam - Yakima River from the Roza Diversion Dam to the Wanawish Diversion Dam

**Resources at Risk:** Economic Resource, Fish Ladder(s), Fish Screens, Public Lands/Facilities, Water Intakes

**Communication Process and Action:**

Call the US Bureau of Reclamation Yakima Field Office Operations Manage at 509-406-3031, and inform him of any significant oil spill or potential spill that impacts or threatens to impact the Yakima River within the planning area so that they can take whatever actions they deem necessary and appropriate to protect the resources under their control. Actions might include the closure of water intake pumps, fish ladders and fish gates, or modification of flow through diversion dams. They will also contact the following irrigation districts with diversions off of USBR facilities: Roza, Sunnyside, Wapato, Kennewick, Union Gap, Selah Moxee, and Columbia.
Site Contact

US Bureau of Reclamation
Primary Contact: Yakima Field Office Manager
Yakima, WA 98901-2058
509-406-3031

Nearest Address
1917 Marsh Rd
Yakima, WA 98901

Driving Directions
1. Head west from West Richland on I-82 W toward Yakima (70.8 miles)
2. At exit 33 take ramp on the right to Yakima Ave toward Terrace Hts (0.1 miles)
3. At fork keep right on Terrace Hts (0.16 miles)
4. Turn right on Terrace Heights Dr (E Yakima Ave) (0.6 miles)
5. Turn left on Butterfield Rd (0.5 miles)
6. Turn left on Marsh Rd (0.41 miles)
7. Finish at the US Bureau of Reclamation Yakima Field Office 1917 Marsh Rd, 98901, on the left
APPENDIX 4C
Staging Area 2-Pagers
## STAGING AREAS - LIST

<table>
<thead>
<tr>
<th>Staging Area Code</th>
<th>Staging Area Code</th>
<th>Staging Area Code</th>
<th>Staging Area Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA-M-334R **</td>
<td>SA-NACH-10.5L</td>
<td>SA-YAK-0.5R **</td>
<td>SA-YAK-8.75L</td>
</tr>
<tr>
<td>SA-YAK-16.25L</td>
<td>SA-YAK-18.7L</td>
<td>SA-YAK-29.6L</td>
<td>SA-YAK-35.95L</td>
</tr>
<tr>
<td>SA-YAK-46.5L</td>
<td>SA-YAK-47.65R</td>
<td>SA-YAK-59.8L</td>
<td>SA-YAK-66.8R</td>
</tr>
<tr>
<td>SA-YAK-82.8L</td>
<td>SA-YAK-91.05L</td>
<td>SA-YAK-94.5R</td>
<td>SA-YAK-99.4R</td>
</tr>
<tr>
<td>SA-YAK-103.05L</td>
<td>SA-YAK-106.3L</td>
<td>SA-YAK-107.1L</td>
<td>SA-YAK-116.7L</td>
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<tr>
<td>SA-YAK-129.4L</td>
<td>SA-YAK-130.6L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Staging Areas from the Middle Columbia River McNary Pool GRP that are included in this appendix**
Columbia Park Marina

**SA-M-334R**

**Position - Location:** 46° 14.286', -119° 13.149'

**Comments:** Large marina with 3 public boat ramps, 7-8 degree grade, and lots of lighted parking

### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marina</td>
<td></td>
<td>Marina has 4 boat houses</td>
</tr>
<tr>
<td>Boat Dock(s)</td>
<td>Yes</td>
<td>Room for ~40 boats at docks</td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Three concrete ramps 7-8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td>Paved and striped 70,000 sq ft</td>
<td></td>
</tr>
<tr>
<td>Fuel</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>Spaces for 55 cars, 40 trailers</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Marked</td>
<td>Spaces for 55 cars, 40 trailers</td>
</tr>
<tr>
<td>Power</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Flush</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**GRP Response Strategies Served:**

M-334.3M, M-334R
Columbia Park Marina

SA-M-334R Photo: Columbia Park Marina boat launches

Site Contact

City of Richland Parks and Recreation Department
Primary Contact: Manages this boat launch

Richland, WA 99352
509-942-7529

Nearest Address

1776 Columbia Park Trail
Richland, WA 99352

Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/US-395 S toward Richland/Pendleton
   Continue to follow I-182 W (2.4 mi)
3. Take exit 12A for US-395 S toward Kennewick/Pendleton (0.7 mi)
4. Continue onto US-395 S (1.8 mi)
5. Keep right to continue on WA-240 W, follow signs for Washington240 W/Richland (1.2 mi)
6. Take the Columbia Center Blvd exit (0.2 mi)
7. Turn right on N Columbia Center Blvd (0.3 mi)
8. Turn right on Columbia Park Trail, destination will be on the left (0.3 mi)
Naches 10.5 Primitive Boat Launch

**Position - Location:** 46° 42.172', -120° 39.640'  46° 42' 10.3", -120° 39' 38.4"  46.70286, -120.66067

**Comments:** WDFW water access site

### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Natural (Grass/Dirt)</td>
<td>Hand launch only</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>7500 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>5</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>3</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
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</table>

**GRP Response Strategies Served:**

NACH-10.15L
**Naches 10.5 Primitive Boat Launch**

SA-NACH-10.5L Photo: View of the shoreline at Naches River Boat Launch

**Site Contact**

**WDFW Region 3 South Central**  
Primary Contact: Management agency for water access site

Yakima, WA 98902  
509-575-2740

**Nearest Address**

7458 US-12  
Naches, WA 98937

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-NACH-10.5L/BL-NACH-10.5L) Naches River Mile 10.5 Water Primitive Boat Launch

1. Head west from Richland on I-82 W toward Yakima (72.62 miles)  
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)  
3. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)  
4. Finish at 7458 US-12, 98937, on the left
Wye Park boat launch

**SA-YAK-0.5R**

**Position - Location:** 46° 14.319', -119° 13.725'

46° 14' 19.1", -119° 13' 43.5" 46.23865, -119.22875 Richland

**Comments:** Wye Park has 1 gravel ramp 7 degree grade, & area for staging

### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
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<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>Yes</td>
<td>Small floating dock can handle 3 boats</td>
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<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Gravel ramp with 7 degree grade</td>
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<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td></td>
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<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>10,500 sq ft of paved parking</td>
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<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>Spaces for 10 cars</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Marked</td>
<td>Spaces for 4 trailers</td>
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<tr>
<td>Power</td>
<td>Yes</td>
<td>Power at restroom</td>
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<td>Restroom</td>
<td>Restroom - Flush</td>
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<td>User Fee</td>
<td>No</td>
<td></td>
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<tr>
<td>Waste Disposal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td></td>
</tr>
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</table>

### GRP Response Strategies Served:

YAK-0.5R
**Wye Park boat launch**

SA-YAK-0.5R Photo: Wye Park boat launch

### Site Contact

**City of Richland Parks and Recreation Department**  
Primary Contact: Manages this boat launch

Richland, WA 99352  
509-942-7529

### Nearest Address

1600 Columbia Park Trail  
Richland, WA 99352

### Driving Directions

1. Head south on US-395 S
2. Take the exit onto I-182 W/US395 S toward Richland/Pendleton  
Continue to follow I-182 W (2.4 mi)
3. Take exit 12A for US-395 S toward Kennewick/Pendleton (0.7 mi)
4. Continue onto US-395 S (1.8 mi)
5. Keep right to continue on WA-240 W, follow signs for Washington 240 W/ Richland (0.2 mi)
6. Take the Columbia Center Boulevard exit (0.2 mi)
7. Turn right onto N Columbia Center Blvd (0.3 mi)
8. Turn left onto Columbia Park Trail, destination will be on the right (0.2 mi)
9. Finish at 1600 Columbia Park Trail, 99352, on the right
Hyde Road Boat Launch

**Position - Location:** 46° 18' 0.32", -119° 19.854'  
46° 18' 1.9", -119° 19' 51.2"  
46.30054, -119.33090  
Richland

**Comments:** WDFW boat launch

---

**Location Information**

<table>
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<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Single lane, 7 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
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<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
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<tr>
<td>Estimated Lot Size</td>
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<td>14,000 sq ft</td>
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<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
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<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
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<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>10</td>
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<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>5</td>
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<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Portable</td>
<td>1</td>
</tr>
<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
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<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
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<tr>
<td>Water (potable)</td>
<td>No</td>
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</table>

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**GRP Response Strategies Served:**

YAK-6.2R, YAK-11.5R, YAK-10.9L, YAK-8.75L
Hyde Road Boat Launch

SA-YAK-8.75L  Photo: View of the boat ramp at the end of Hyde Road

Site Contact

WDFW Region 3 South Central
Primary Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-8.75L/BL-YAK-8.75L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at the end of West Hyde Rd, 99354

Nearest Address

3100 Hyde Road
Richland, WA 99354
North Snively Road Boat Launch  
SA-YAK-16.25L

Position - Location: 46° 21.597', -119° 23.780'  
46° 21' 35.8", -119° 23' 46.8"  
46.35995, -119.39634  
West Richland

Comments: WDFW boat launch, may see heavy use seasonally

<table>
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<tr>
<th>Location Information</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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<tbody>
<tr>
<td>Asset</td>
<td>Boat Dock(s) No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boat Ramp(s) Gravel Singe lane, 8 degree grade</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cell Phone Coverage Yes 3 bars</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Covered Spaces No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Estimated Lot Size 15,000 sq ft</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fuel No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lot Cover (Primary) Dirt/Gravel 100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parking - Car Not Marked 25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parking - Trailer Not Marked 10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restroom Restroom - Portable 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>User Fee Yes Discover Pass</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Waste Disposal None</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Water (potable) No</td>
<td></td>
</tr>
</tbody>
</table>

GRP Response Strategies Served:


Staging Area

WDFW boat launch, may see heavy use seasonally
North Snively Road Boat Launch

SA-YAK-16.25L

Photo: View of the boat ramp at WDFW's Snively Road access site

Site Contact

WDFW Region 3 South Central
Primary Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

4116 N Snively Rd
West Richland, WA 99353

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head west from West Pasco on I-182
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (2.89 miles)
6. Turn right on Grosscup Blvd (0.78 miles)
7. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (0.15 miles)
8. Turn left on N Grosscup Rd (0.53 miles)
9. Continue on N Yakima River Dr (0.1 miles)
10. Turn right on Twin Bridges Rd (0.29 miles)
11. Turn left on N Snively Rd (2.8 miles)
12. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.

Appendix 4C
Horn Rapids Park Boat Launch

Position - Location: 46° 22.826', -119° 25.932'

GRP Response Strategies Served:
YAK-22.7L, YAK-20.4L, YAK-18.35R, YAK-18.8L

Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Plank</td>
<td>2 lanes, 8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>27,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
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<tr>
<td>Lot Cover (Primary)</td>
<td>Asphalt</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>50</td>
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<tr>
<td>Parking - Trailer</td>
<td>Marked</td>
<td>6</td>
</tr>
<tr>
<td>Power</td>
<td>Yes</td>
<td>At the campground</td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Vault</td>
<td>2</td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td>1 Dumpster</td>
</tr>
<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td>At the campground</td>
</tr>
</tbody>
</table>

Horn Rapids Park has a campground, to the west of the staging area, with flush toilets, showers, power, water, trash etc.
Horn Rapids Park Boat Launch

SA-YAK-18.7L Photo: View of the Horn Rapids Boat Ramp

**Site Contact**

Benton County Parks Department  
Primary Contact: Manage parks  
5600A West Canal Place, A101  
Kennewick, WA 99336  
509-783-3118

**Nearest Address**

115799 N WA-225  
Benton City, WA 99320

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch

1. Head west from West Pasco on I-182 toward Richland  
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)  
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)  
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)  
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)  
6. Turn left on Horn Rd (WA-225) (0.77 miles)  
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.
Benton City Boat Launch

**Position - Location:** 46° 15.280', -119° 28.445'  
46° 15' 16.8", -119° 28' 26.7"  
46.25467, -119.47409  
Benton City

**Comments:** WDFW water access site

---

<table>
<thead>
<tr>
<th><strong>Location Information</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Asset</strong></td>
</tr>
<tr>
<td>Boat Dock(s)</td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
</tr>
<tr>
<td>Covered Spaces</td>
</tr>
<tr>
<td>Estimated Lot Size</td>
</tr>
<tr>
<td>Fuel</td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
</tr>
<tr>
<td>Parking - Car</td>
</tr>
<tr>
<td>Parking - Trailer</td>
</tr>
<tr>
<td>Power</td>
</tr>
<tr>
<td>Restroom</td>
</tr>
<tr>
<td>User Fee</td>
</tr>
<tr>
<td>Waste Disposal</td>
</tr>
<tr>
<td>Water (potable)</td>
</tr>
</tbody>
</table>

**GRP Response Strategies Served:**


---

"冯“国“华"
Benton City Boat Launch

Photo: View of the Benton City boat launch

SA-YAK-29.6L

Site Contact

WDFW Region 3 South Central
Primary Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

101 Abby Ave
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-29.6L/BL-YAK-29.6L) Benton City Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)
4. Turn right on 1st St (WA-224) (0.19 miles)
5. Turn right into the park across the street from Abby Ave (0.03 miles)
6. Finish at the Benton City Boat Launch, 99320, on the right.
Just Upstream of the Chandler Power Plant  

**Position - Location:** 46° 15.877', -119° 35.467'  
46° 15' 52.6", -119° 35' 28.0"  
46.26461, -119.59112  
Benton City

**Comments:** Dirt track to a clearing beside the river

---

### Location Information

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<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
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<tr>
<td>Boat Ramp(s)</td>
<td>Natural (Grass/Dirt)</td>
<td>Steep grade during low water</td>
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<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
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<td></td>
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<td>Estimated Lot Size</td>
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<td>5,000 sq ft</td>
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<tr>
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<td>Dirt</td>
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<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>2</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
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**GRP Response Strategies Served:**  

YAK-35.95L
SA-YAK-35.95L Photo: View of the dirt boat ramp just upstream of the Chandler Power Plant

Site Contact

US Bureau of Reclamation
Land/Property Contact: Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

47400 W Old Inland Empire Hwy
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK35.95L/BL-YAK-35.95L) Upstream of Chandler Power Plant

1. Head west from West Pasco on I-82 W to Yakima
2. At exit 96 take ramp on the right to WA-224 E/ WA-225 N to W Richland/Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.04 miles)
6. Turn left on Babs Ave (0.42 miles)
7. Bear right on 14th St (0.19 miles)
8. Turn left on N Kendall Rd NW (1.08 miles)
9. Turn left on W Old Inland Empire Hwy (4.5 miles)
10. Half a mile before 47400 W Old Inland Empire Hwy turn left at gravel drive for Chandler Power Plant. After a 90 degree turn, take the first right onto a dirt track. Go straight until the track dead ends at a T intersection; turn left and head toward the river.
11. Finish just up from the Chandler Power Plant on Old Inland Empire Hwy, Benton City, WA 99320
Prosser Wastewater Treatment Plant Boat Launch

**GRP Response Strategies Served:**
YAK-42.9L, YAK-41.9L

**Position - Location:**
46° 12.750', -119° 45.935'

**Comments:**
Property is gated and locked after hours. Coordinate with City of Prosser for access; call 509-786-2332. May need to cut chain (not locks) after-hours if city contacts unavailable.

**Location Information**

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Natural (Grass/Dirt)</td>
<td>Single lane, 5 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
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<td>5,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>50%</td>
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<td>Parking - Car</td>
<td>Not Marked</td>
<td>5</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>2</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
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<tr>
<td>Waste Disposal</td>
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</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
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</table>
Prosser Wastewater Treatment Plant Boat Launch

SA-YAK-46.5L

Photo: View of the rivers edge at the Prosser Wastewater Treatment Facility primitive boat launch

Site Contact

City of Prosser
Primary Contact: City Dispatch (Wastewater Treatment Facility)

Prosser, WA 99350
509-786-2332

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK46.5L/BL-YAK46.5L) Prosser Wastewater Treatment Plant

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles), go across the bridge and turn left on canal road (0.15 miles) then take the first right just before the wastewater treatment plant. Follow the dirt track to the river (0.13 miles).
8. Finish at the boat ramp at the end. Address is 999 Grande Rd. Prosser, WA 99350.

Nearest Address

999 Grande Rd
Prosser, WA 99350

Appendix 4C
### Riverfront Park Boat Launch

**SA-YAK-47.65R**

#### Staging Area

<table>
<thead>
<tr>
<th>Position - Location</th>
<th>46° 12.248', -119° 46.624'</th>
<th>46° 12' 14.9&quot;, -119° 46' 37.5&quot;</th>
<th>46.20414, -119.77707</th>
<th>Prosser</th>
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**Comments:** Additional parking close by

#### Location Information

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<thead>
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<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
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<tbody>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Double ramps, 8 degree grade</td>
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<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>4G</td>
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<tr>
<td>Covered Spaces</td>
<td>Yes</td>
<td>Pavilion nearby</td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>22,500 sq ft</td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Asphalt</td>
<td>70% asphalt, 30% gravel</td>
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<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>10</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>10</td>
</tr>
<tr>
<td>Power</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Flush</td>
<td>Bathrooms at Farrand Park</td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

### GRP Response Strategies Served:

YAK-47.2R, YAK-47.65R
Riverfront Park Boat Launch

SA-YAK-47.65R

Photo: View of the boat launch at Riverfront Park in Prosser

Site Contact

City of Prosser
Land/Property Contact: Parks and Recreation
Prosser, WA 66350
509-786-2332

Nearest Address

904 Sheridan Ave
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-47.65R/BL-YAK-47.65R) Riverfront Park Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.73 miles)
5. Turn left on Wine Country Rd and immediately turn left on 6th St (0.12 miles)
6. Make sharp right on Sheridan Ave (0.26 miles)
7. Turn right into the boat launch parking area. Finish at Riverfront Park, 3rd St and Sheridan Ave, Prosser, WA 99350.
Mabton Bridge Boat Launch
SA-YAK-59.8L

**Location Information**

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<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
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<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Single lane, 4 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>4G</td>
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<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
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<td>10,000 sq ft</td>
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<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>20</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>10</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
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</table>

**GRP Response Strategies Served:**

YAK-61.2L, YAK-55.4R, YAK-60.45R, YAK-59.8L, YAK-55.3M, YAK-60.2R

**Staging Area**

**Position - Location:**

- **Mabton Bridge Boat Launch**
- SA-YAK-59.8L

**Position - Location:**

- 46° 13.930', -119° 59' 993'
- 46° 13' 55.8", -119° 59' 59.6"
- 46.23216, -119.99989

**Comments:**

WDFW aquatic lands open to hunting
SA-YAK-59.8L Photo: View of the Mabton Bridge primitive boat launch

**Site Contact**

**WDFW Region 3 South Central**  
Land/Property Contact: Management agency for water access site

Yakima, WA 98902  
509-575-2740

**Nearest Address**

6901 Mabton-Sunnyside Rd  
Mabton, WA 98935

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182  
2. After ~5.5 mi take ramp onto Interstate 82 heading west towards Prosser/Yakima  
3. After ~20.0 mi take ramp at Exit 82 (WA-22)  
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)  
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221  
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)  
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton  
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)  
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.
Bond Road Primitive Boat Launch

**Location Information**

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<tr>
<th>Asset</th>
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<td>Boat Dock(s)</td>
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<tr>
<td>Boat Ramp(s)</td>
<td>Natural (Grass/Dirt)</td>
<td>single lane, 4 degree grade</td>
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<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
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<tr>
<td>Covered Spaces</td>
<td>No</td>
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<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
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<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt</td>
<td></td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
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<tr>
<td>Parking - Trailer</td>
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<td>3</td>
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<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**Position - Location:** 46° 14.566', -120° 5.014' 46° 14' 34.0", -120° 5'.8" 46.24277, -120.08356 Mabton

**Comments:** Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.

**GRP Response Strategies Served:**

Bond Road Primitive Boat Launch

SA-YAK-66.8R Photo: View of the shoreline at low water conditions, OK for hand launch BL-YAK-66.8R

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate 82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
**Granger Public Works Boat Launch**

**Position - Location:** 46° 20.126', -120° 11.730'

**Comments:** No access issues (not gated)

### Location Information

<table>
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<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Single lane, 7 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
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<tr>
<td>Estimated Lot Size</td>
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<td>40,000 sq ft</td>
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<tr>
<td>Fuel</td>
<td>No</td>
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<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
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<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>10</td>
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<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
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<td></td>
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<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**GRP Response Strategies Served:**

YAK-78.0L, YAK-80.55R, YAK-84.6R, YAK-77.05R, YAK-77.5R, YAK-74.9L, YAK-84.1R
Granger Public Works Boat Launch

SA-YAK-82.8L  Photo: View of the boat launch at Granger Public Works on East A Street

Site Contact

City of Granger
Land/Property Contact: Public Works
Granger, WA 98932
509-854-2770

Nearest Address

500 East A Street
Granger, WA 98932

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
North Meyers Road Boat Launch

**Position - Location:** 46° 24' 0.45", -120° 16.856'
46° 24' 2.7", -120° 16' 51.3" 46.40075, -120.28093 Toppenish

**Comments:** WDFW boat launch

---

**Location Information**

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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<tbody>
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<td>Boat Dock(s)</td>
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<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Single lane, 8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
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<tr>
<td>Covered Spaces</td>
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<td>Estimated Lot Size</td>
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<td>Fuel</td>
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<td>Gravel</td>
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<td>Parking - Car</td>
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<tr>
<td>Parking - Trailer</td>
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<td>5</td>
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<tr>
<td>Power</td>
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<td></td>
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<tr>
<td>Restroom</td>
<td>Restroom - Portable</td>
<td>1</td>
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<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
</tr>
<tr>
<td>Waste Disposal</td>
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<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
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---

**GRP Response Strategies Served:**

North Meyers Road Boat Launch

SA-YAK-91.05L Photo: View of the N Meyers Rd boat launch

Site Contact

WDFW Region 3 South Central
Land/Property Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

3000 N Meyers Rd
Toppenish, WA 98948

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK91.05L/BL-YAK91.05L) North Meyers Bridge Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)
2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)
3. Turn left on Toppenish Zillah Rd (0.13 miles)
4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.
5. Finish at 3000 North Meyers Rd, 98948, on the right
Wierman Road Primitive Boat Launch

**SA-YAK-94.5R**

**Staging Area**

**Position - Location:** 46° 25.150', -120° 20.002'  
46° 25' 9.0", -120° 20'.1"  
46.41916, -120.33336  
Toppenish

**Comments:** Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.

---

**Location Information**

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<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
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<tbody>
<tr>
<td>Boat Dock(s)</td>
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</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
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<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>4 bars</td>
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<tr>
<td>Covered Spaces</td>
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<td></td>
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<tr>
<td>Estimated Lot Size</td>
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</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
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</tr>
<tr>
<td>Parking - Trailer</td>
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<tr>
<td>Restroom</td>
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</tr>
<tr>
<td>User Fee</td>
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<td></td>
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<tr>
<td>Waste Disposal</td>
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<td></td>
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<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
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---

**GRP Response Strategies Served:**

YAK-94.15R
**Wierman Road Primitive Boat Launch**

SA-YAK-94.5R Photo: View of the gravel beach boat launch off Wierman Road

### Site Contact

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939

### Nearest Address

1402 Wierman Rd  
Toppenish, WA 98948

### Driving Directions

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-94.5R/BL-YAK-94.5R) Wierman Road Primitive Boat Launch**

1. Head west from West Richland on I-82 W (45.98 miles)  
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)  
3. Turn left on Buena Rd (WA-22) (0.23 miles)  
4. Continue on Buena Way (WA-22) (1.7 miles)  
5. Turn right on E McDonald Rd (0.64 miles)  
6. Bear right on N Track Rd (0.51 miles)  
7. Turn right on Wierman Rd (1.65 miles)  
8. Turn right just after 1402 Wierman Rd, 98948, on the left, follow dirt track off to the right the river (0.2 miles)
East Wapato Road Primitive Boat Launch

SA-YAK-99.4R

Staging Area

| Position - Location: | 46° 27.488', -120° 23.065' | 46° 27.299”, -120° 23’ 3.9” | 46.45813, -120.38441 | Wapato |

Comments: Cobblestone beach off dirt/gravel road. Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.

Location Information

<table>
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<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
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<tbody>
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<td>Boat Dock(s)</td>
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</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
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</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>~2 bars</td>
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<tr>
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<td></td>
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<tr>
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<td></td>
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<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td></td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>5</td>
</tr>
<tr>
<td>Parking - Trailer</td>
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<td>4</td>
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<td>Power</td>
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<td></td>
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<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
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<tr>
<td>Waste Disposal</td>
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<tr>
<td>Water (potable)</td>
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<td></td>
</tr>
</tbody>
</table>

Contact Yakama Nation

GRP Response Strategies Served:

YAK-99.4L, YAK-97.95M, YAK-98.15L
SA-YAK-99.4R Photo: View of the cobblestone primitive boat launch at SA/BL-YAK-99.4R

**Site Contact**

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939

**Nearest Address**

1561 E Wapato Rd  
Wapato, WA 98951

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road  
Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)  
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)  
3. Turn left on Buena Rd (WA-22) (0.23 miles)  
4. Continue on Buena Way (WA-22) (1.7 miles)  
5. Turn right on E McDonald Rd (0.64 miles)  
6. Bear right on N Track Rd (3.13 miles)  
7. Make sharp right on N Oldenway Rd (1.85 miles)  
8. Turn left on E Wapato Rd (0.34 miles)  
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)  
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752
## Staging Area

<table>
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<tr>
<th>Position - Location:</th>
<th>46° 29.451', -120° 25.854'</th>
<th>46° 29' 27.1&quot;, -120° 25' 51.2&quot;</th>
<th>46.49085, -120.43090</th>
<th>Wapato</th>
</tr>
</thead>
</table>

**Comments:** WDFW water access site

### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Plank</td>
<td>1 lane, 9 degree grade</td>
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<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
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<td>Covered Spaces</td>
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<tr>
<td>Parking - Trailer</td>
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<tr>
<td>Power</td>
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<tr>
<td>Restroom</td>
<td>Restroom - Portable</td>
<td>1</td>
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<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

### GRP Response Strategies Served:

YAK-103.1R, YAK-102.2L, YAK-102.1R
Mellis Frontage Road Boat Launch

SA-YAK-103.05L Photo: View of the Mellis Frontage Rd boat launch

**Site Contact**

**WDFW Region 3 South Central**  
Land/Property Contact: Management agency for water access site

Yakima, WA 98902  
509-575-2740

**Nearest Address**

300 Mellis Rd  
Wapato, WA 98951

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-103.05L/BL-YAK-103.05L) Mellis Frontage Road Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (58.07 miles)
3. At exit 44 take ramp on the right toward Wapato (0.4 miles)
4. Turn right on Donald Wapato Rd (0.39 miles)
5. Turn left on Yakima Valley Hwy (1.59 miles)
6. Turn left on Mellis Rd (0.3 miles), then turn right as soon as you go under the expressway.
7. Follow Mellis Frontage Rd until it ends at the WDFW boat launch parking area (0.4 miles). Use 300 Mellis Rd, Wapato, WA as an address for your navigation system.
0.2 Miles Downstream of the Wapato East Spillway

**SA-YAK-106.3L**

**Staging Area**

**Position - Location:** 46° 31.355', -120° 28.298'  
46° 31' 21.3", -120° 28' 17.9"  46.52258, -120.47163  
Wapato

**Comments:** Call and coordinate access with the Wapato Irrigation District 509-877-3155 ext 2. Site is on Bureau of Indian Affairs land.

---

**Location Information**

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>2 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
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<td>7500 sq ft</td>
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<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
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<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>3</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>2</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

---

**GRP Response Strategies Served:**

YAK-105.8R
SA-YAK-106.3L Photo: View of the put in to hand launch at BL-YAK-106.3L

**Site Contact**

Wapato Irrigation District (Bureau of Indian Affairs)
Land/Property Contact: Emergency contact
509-877-3155 ext. 3

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK106.3L/BL-YAK106.3L) 0.2 Miles Downstream of the Wapato East Spillway

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn right on Thorp Rd (2 miles)
4. Turn left to go under I-82 though the tunnel. Go past the Wapato spillway then follow the dirt/gravel drive to the left until you reach a stream crossing (0.3 miles).
5. Finish at BL/SA-YAK106.3L

**Nearest Address**

1811 Thorp Rd
Wapato, WA 98951
Century Landing Boat Launch


Comments: Site is managed by the Yakima Greenway Foundation. No access issues (not gated)

Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Plank</td>
<td>1</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>4G</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>7,500 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Asphalt</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>7</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>7</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Vault</td>
<td>1</td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td>3</td>
</tr>
</tbody>
</table>

GRP Response Strategies Served:

YAK-106.75R, YAK-108.8L
Century Landing Boat Launch

Photo: View of the Century Landing Boat Launch

Site Contact

Yakima Greenway Foundation
Land/Property Contact: Manages the Yakima Greenway and two boat launches
Yakima, WA 98901
509-453-8280

Nearest Address

82 Thorp Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-107.1L/BL-YAK-107.1L) Century Landing Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (62.04 miles)
3. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
4. Turn right on Thorp Rd (1.81 miles)
5. Boat launch is on the left. Finish at 82 Thorp Rd, 98951, on the left.
Harlan Landing Park

**Position - Location:** 46° 37' 37.4", -120° 31' 19.3"  
46.63158, -120.52175  
Yakima

**Comments:** No access issues (not gated), park may be busy seasonally

<table>
<thead>
<tr>
<th>Location Information</th>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Plank</td>
<td>Single lane, 8 degree grade</td>
<td></td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
<td></td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>Yes</td>
<td>200 sq ft</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>20,000 sq ft</td>
<td></td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Asphalt</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Marked</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Flush</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td>Dumpster</td>
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</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
<td></td>
</tr>
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</table>

**GRP Response Strategies Served:**

YAK-116.0L, YAK-117.5R, YAK-114.3L
Harlan Landing Park

SA-YAK-116.7L Photo: View of the boat launch at Harlan Landing Park

Site Contact

Yakima Greenway Foundation
Land/Property Contact: Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

41 Rovetto Road
Yakima, WA 98901

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK116.7L/BL-YAK-116.7L) Harlan Landing Park

1. Head west from West Richland on I-82 W (65.62 miles)
2. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
3. Turn left on Rest Haven Rd toward Selah (0.08 miles)
4. Continue on Rovetto Rd (0.13 miles)
5. Finish at 41 Rovetto Road, 98901, on the left
Roza Recreation Area

**Position - Location:** 46° 45.836’ , -120° 27.397’  
46° 45' 50.1", -120° 27' 23.8"  
46.76393, -120.45662

**Yakima**

**Comments:** Park sees heavy recreational use. Coordinate with US Bureau of Land Management 509-665-2100 for access.

### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>2 lanes, 8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>Yes</td>
<td>75 sq ft</td>
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<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>100,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Asphalt</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>100</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Marked</td>
<td>20</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Vault</td>
<td>4</td>
</tr>
<tr>
<td>User Fee</td>
<td>Yes</td>
<td>$5 day, $15 overnight</td>
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<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td>1 Dumpster</td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
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</table>

**GRP Response Strategies Served:**

YAK-129.8L
Roza Recreation Area

SA-YAK-129.4L

Photo: Roza Recreation Area Boat Ramps

Site Contact

Bureau of Land Management
Primary Contact: Wenatchee Office

Wenatchee, WA 98801
509-665-2100

Nearest Address

8681 Canyon Road
Yakima, WA 98901

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK129.4L/BL-YAK-129.4L) Roza Recreation Area

1. Head west from Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (74.99 miles)
5. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
6. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
7. Make sharp left on WA-821 (Firing Center Rd) (7 miles)
8. Finish at Roza Recreation Area, 8681 Canyon Road, 98901, on the left.
**Lower Yakima River GRP**

**Mile Post 8 Boat Launch**

**SA-YAK-130.6L**

**Staging Area**

| Position - Location: | 46' 46' 46.541', -120° 27.163' | 46° 46' 32.5", -120° 27' 9.8" | 46.77569, -120.45272 | Yakima |

**Comments:** WDFW water access site, may see heavy use seasonally

---

**Location Information**

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
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<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Single lane, 8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>2 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td>10,000 sq ft</td>
<td></td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
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</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>10</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Vault</td>
<td>2</td>
</tr>
<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass required</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**GRP Response Strategies Served:**

YAK-130.6L
Mile Post 8 Boat Launch

Photo: View of the boat launch at WDFW Mile Post 8 water access site

Site Contact

WDFW Region 3 South Central
Land/Property Contact: Management agency for water access site
Yakima, WA 98902
509-575-2740

Nearest Address

70 Roza View Dr
Yakima, WA 98901

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-130.6L/BL-YAK-130.6L) Mile Post 8 Boat Launch

1. Head west from West Richland on I-82 W (67.06 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (8.31 miles)
5. Turn left at Roza View Dr (0.01 miles)
6. Finish at Mile Post 8 boat launch (across the Canyon Road from 70 Roza View Dr, 98901), on the left
APPENDIX 4D
Boat Launch 2-Pagers
<table>
<thead>
<tr>
<th>BL-M-333.9L **</th>
<th>BL-M-334R **</th>
<th>BL-NACH-10.5L</th>
<th>BL-YAK-0.5R **</th>
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<tr>
<td>BL-YAK-8.75L</td>
<td>BL-YAK-16.25L</td>
<td>BL-YAK-18.7L</td>
<td>BL-YAK-29.6L</td>
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<td>BL-YAK-35.95L</td>
<td>BL-YAK-46.5L</td>
<td>BL-YAK-47.65R</td>
<td>BL-YAK-59.8L</td>
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<td>BL-YAK-82.8L</td>
<td>BL-YAK-91.05L</td>
<td>BL-YAK-94.5R</td>
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<td>BL-YAK-99.4R</td>
<td>BL-YAK-103.05L</td>
<td>BL-YAK-106.3L</td>
<td>BL-YAK-107.1L</td>
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<tr>
<td>BL-YAK-116.7L</td>
<td>BL-YAK-129.4L</td>
<td>BL-YAK-130.6L</td>
<td></td>
</tr>
</tbody>
</table>

**Boat Launches from the Middle Columbia River McNary Pool GRP that are included in this appendix**
### Chiawana Park boat launch

**BL-M-333.9L**

#### Boat Launch Location

<table>
<thead>
<tr>
<th>Position - Location</th>
<th>46° 14.631′, -119° 12.378′</th>
<th>46° 14′ 37.9″, -119° 12′ 22.7″</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>46.24385, -119.20630</td>
<td>Pasco</td>
</tr>
</tbody>
</table>

**Comments:** Boat launch with two ramps 7 degree grade, plus a park with staging area

#### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>Yes</td>
<td>1 floating dock</td>
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<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Two concrete ramps 7 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>Two paved &amp; lined lots = 34,000 sq ft</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>Spaces for 60 cars and 15 trailers</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Marked</td>
<td>Spaces for 60 cars and 15 trailers</td>
</tr>
<tr>
<td>Power</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Flush</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td>No fee but gated</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td>Dumpster and cans</td>
</tr>
<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

#### GRP Response Strategies Served:

M-334.5L
Chiawana Park boat launch

SA-M-333.9L Photo: Chiawana Park boat launches

### Site Contact

**City of Pasco Recreation Service**  
Land/Property Contact:

Pasco, WA 99301  
509-545-3456

### Nearest Address

100 Chiawana Park Rd  
Pasco, WA 99301

### Driving Directions

1. Head south on US-395 S  
2. Take the exit onto I-182 W/US-395 S toward Richland/ Pendleton  
Continue to follow I-182 W (4.9 mi)
3. Take exit 9 for Rd 68 (0.4 mi)
4. Turn left onto N Rd 68 (0.8 mi)
5. Turn right onto W Argent Rd (1.3 mi)
6. Turn left onto Rd 88 (0.6 mi)
7. Turn left onto Schuman Ln/Chiawana Park Rd (0.3 mi)
## GRP Response Strategies Served:

M-334.3M, M-334R

### Location Information

<table>
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<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marina has 4 boat houses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boat Dock(s)</td>
<td>Yes</td>
<td>Room for ~40 boats at docks</td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Three concrete ramps 7-8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>Paved and striped 70,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>Spaces for 55 cars, 40 trailers</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Marked</td>
<td>Spaces for 55 cars, 40 trailers</td>
</tr>
<tr>
<td>Power</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Flush</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

### Location - Richland

- **Position - Location:** 46° 14' 17.2", -119° 13' 8.9"
- **Estimated Lot Size:** 70,000 sq ft
- **Water (potable):** Yes

### Comments:

Large marina with 3 public boat ramps, 7-8 degree grade, and lots of lighted parking.
Columbia Park Marina

SA-M-334R Photo: Columbia Park Marina boat launches

**Site Contact**

**City of Richland Parks and Recreation Department**
Primary Contact: Manages this boat launch

Richland, WA 99352
509-942-7529

**Nearest Address**

1776 Columbia Park Trail
Richland, WA 99352

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/US395 S toward Richland/Pendleton
Continue to follow I-182 W (2.4 mi)
3. Take exit 12A for US-395 S toward Kennewick Pendleton (0.7 mi)
4. Continue onto US-395 S (1.8 mi)
5. Keep right to continue on WA-240 W, follow signs for Washington 240 W/ Richland (8.2 mi)
6. Take the Columbia Center Blvd exit (0.2 mi)
7. Turn right on N Columbia Center Blvd (0.3 mi)
8. Turn right on Columbia Park Trail, destination will be on the left (0.3 mi)
**Naches 10.5 Primitive Boat Launch**

**GRF Response Strategies Served:**

NACH-10.15L

---


**Comments:** HAND LAUNCH SITE ONLY - NO BOAT RAMP AVAILABLE. WDFW water access site

---

### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Natural (Grass/Dirt)</td>
<td>Hand launch only</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
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<tr>
<td>Covered Spaces</td>
<td>No</td>
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<tr>
<td>Estimated Lot Size</td>
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<td>7500 sq ft</td>
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<td>Dirt/Gravel</td>
<td>100%</td>
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<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>5</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>3</td>
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<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
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</table>

---

Related Positions: Naches 46.70286, -120.66067
Naches 10.5 Primitive Boat Launch

SA-NACH-10.5L Photo: View of the shoreline at Naches River Boat Launch

Site Contact

WDFW Region 3 South Central
Primary Contact : Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

7458 US-12
Naches, WA 98937

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-NACH-10.5L/BL-NACH-10.5L) Naches River Mile 10.5 Water Primitive Boat Launch

1. Head west from Richland on I-82 W toward Yakima (72.62 miles)
2. At exit 31 take ramp on the right to US-12 W toward Naches / White Pass (0.17 miles)
3. At fork keep right on US-12 W toward Naches / White Pass (9.95 miles)
4. Finish at 7458 US-12, 98937, on the left
GRP Response Strategies Served:

YAK-0.5R, M-335M
**Wye Park boat launch**

SA-YAK-0.5R Photo: Wye Park boat launch

---

**Site Contact**

**City of Richland Parks and Recreation Department**
Primary Contact: Manages this boat launch

Richland, WA 99352
509-942-7529

---

**Nearest Address**

1600 Columbia Park Trail
Richland, WA 99352

---

**Driving Directions**

1. Head south on US-395 S
2. Take the exit onto I-182 W/ US395 S toward Richland/ Pendleton
   Continue to follow I-182 W (2.4 mi)
3. Take exit 12A for US-395 S toward Kennewick Pendleton (0.7 mi)
4. Continue onto US-395 S (1.8 mi)
5. Keep right to continue on WA-240 W, follow signs for Washington 240 W/ Richland (1.2 mi)
6. Take the Columbia Center Boulevard exit (0.2 mi)
7. Turn right onto N Columbia Center Blvd (0.3 mi)
8. Turn left onto Columbia Park Trail, destination will be on the right (0.2 mi)
9. Finish at 1600 Columbia Park Trail, 99352, on the right
**Hyde Road Boat Launch**

**BL-YAK-8.75L**

**Boat Launch Location**

| Position - Location: | 46° 18.032', -119° 19.854' | 46° 18' 1.9", -119° 19' 51.2" | 46.30054, -119.33090 | Richland |

**Comments:** Launch sees heavy recreational use in summer

---

**Location Information**

<table>
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<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
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<tr>
<td>Boat Dock(s)</td>
<td>No</td>
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<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Single lane, 7 degree grade</td>
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<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
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<tr>
<td>Covered Spaces</td>
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<tr>
<td>Estimated Lot Size</td>
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<td>14,000 sq ft</td>
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<td>Fuel</td>
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<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
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<td>Parking - Car</td>
<td>Not Marked</td>
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<tr>
<td>Parking - Trailer</td>
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<td>5</td>
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<tr>
<td>Power</td>
<td>No</td>
<td></td>
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<tr>
<td>Restroom</td>
<td>Restroom - Portable</td>
<td>1</td>
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<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
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<tr>
<td>Waste Disposal</td>
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<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

---

**GRP Response Strategies Served:**

**Hyde Road Boat Launch**

SA-YAK-8.75L Photo: View of the boat ramp at the end of Hyde Road

### Site Contact

**WDFW Region 3 South Central**  
Primary Contact: Management agency for water access site  
Yakima, WA 98902  
509-575-2740

### Nearest Address

3100 Hyde Road  
Richland, WA 99354

### Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-8.75L/BL-YAK-8.75L) Hyde Road Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (5.47 miles)
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (1.19 miles)
6. Turn right on Kingston Rd (0.2 miles)
7. Turn left on Hyde Rd (0.15 miles)
8. Finish at the end of West Hyde Rd, 99354
### North Snively Road Boat Launch

**BL-YAK-16.25L**

**Boat Launch Location**

| Position - Location: | 46° 21.597', -119° 23.780' | 46° 21' 35.8", -119° 23' 46.8" | 46.35995, -119.39634 | West Richland |

**Comments:** WDFW boat launch, may see heavy use seasonally

---

**Location Information**

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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<tbody>
<tr>
<td>Boat Dock(s)</td>
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<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Single lane, 8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
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<tr>
<td>Estimated Lot Size</td>
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<td>15,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
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<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
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<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
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<td>Parking - Trailer</td>
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<tr>
<td>Power</td>
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<td></td>
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<tr>
<td>Restroom</td>
<td>Restroom - Portable</td>
<td>1</td>
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<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
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<tr>
<td>Waste Disposal</td>
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<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
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</table>

**GRP Response Strategies Served:**

North Snively Road Boat Launch

SA-YAK-16.25L Photo: View of the boat ramp at WDFW's Snively Road access site

Site Contact

WDFW Region 3 South Central
Primary Contact: Management agency for water access site
Yakima, WA 98902
509-575-2740

Nearest Address

4116 N Snively Rd
West Richland, WA 99353

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK16.25L/BL-YAK-16.25L) North Snively Road Boat Launch

1. Head west from West Pasco on I-182
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (.31 miles)
3. At fork keep left on WA-240 W toward Vantage (.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (2.54 miles)
5. Make sharp left on Van Giesen St (WA-224) (2.89 miles)
6. Turn right on Grosscup Blvd (.78 miles)
7. Turn right at N 62nd Ave / N Harrington Pr NE to stay on Grosscup Blvd (.15 miles)
8. Turn left on N Grosscup Rd (.53 miles)
9. Continue on N Yakima River Dr (.1 miles)
10. Turn right on Twin Bridges Rd (.29 miles)
11. Turn left on N Snively Rd (.2 miles)
12. Finish just past 4116 N Snively Rd, 99353, on the left turn in where the road takes a 90 degree curve to the right.
Horn Rapids Park Boat Launch
BL-YAK-18.7L

Boat Launch Location

**Position - Location:** 46° 22.826', -119° 25.932'
46° 22' 49.6", -119° 25' 55.9"
46.38044, -119.43220
Benton City

**Comments:** Horn Rapids Park has a campground, to the west of the staging area, with flush toilets, showers, power, water, trash etc.

**Location Information**

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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<tbody>
<tr>
<td>Boat Dock(s)</td>
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<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Plank</td>
<td>2 lanes, 8 degree grade</td>
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<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>Yes</td>
<td></td>
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<tr>
<td>Estimated Lot Size</td>
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<td>27,000 sq ft</td>
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<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
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<tr>
<td>Lot Cover (Primary)</td>
<td>Asphalt</td>
<td>100%</td>
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<td>Parking - Car</td>
<td>Marked</td>
<td>50</td>
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<td>Parking - Trailer</td>
<td>Marked</td>
<td>6</td>
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<tr>
<td>Power</td>
<td>Yes</td>
<td>At the campground</td>
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<tr>
<td>Restroom</td>
<td>Restroom - Vault</td>
<td>2</td>
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<tr>
<td>User Fee</td>
<td>No</td>
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<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td>1 Dumpster</td>
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<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td>At the campground</td>
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</table>

**GRP Response Strategies Served:**

YAK-22.7L, YAK-20.4L, YAK-18.35R, YAK-18.8L
Horn Rapids Park Boat Launch

SA-YAK-18.7L Photo: View of the Horn Rapids Boat Ramp

### Site Contact

**Benton County Parks Department**  
Primary Contact: Manage parks  
5600A West Canal Place, A101  
Kennewick, WA 99336  
509-783-3118

### Nearest Address

115799 N WA-225  
Benton City, WA 99320

### Driving Directions

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-18.7L/BL-YAK-18.7L) Horn Rapids Park Boat Launch**

1. Head west from West Pasco on I-182 toward Richland
2. At exit 4 take ramp on the right to WA-240 W toward Wellsian Way / Vantage (0.31 miles)
3. At fork keep left on WA-240 W toward Vantage (0.27 miles)
4. Continue on WA-240 W (By Pass Hwy) (3.94 miles)
5. Turn left at Jadwin Ave / Stevens Dr to stay on WA-240 W (8.35 miles)
6. Turn left on Horn Rd (WA-225) (0.77 miles)
7. Finish at 115799 N WA-225, 99320, on the left, take the first left in the park and follow to the end to reach the boat launch.
Benton City Boat Launch

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
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<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Single ramp, 4 degree grade</td>
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<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
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<tr>
<td>Covered Spaces</td>
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<tr>
<td>Estimated Lot Size</td>
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<td>50,000 sq ft</td>
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<tr>
<td>Fuel</td>
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<tr>
<td>Lot Cover (Primary)</td>
<td>Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
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<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>10</td>
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<tr>
<td>Power</td>
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<tr>
<td>Restroom</td>
<td>Restroom - Portable</td>
<td>2</td>
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<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
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<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td>3 cans</td>
</tr>
<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td></td>
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</tbody>
</table>

**GRP Response Strategies Served:**


**Position - Location:**

46° 15.280', -119° 28.445'  
46° 15' 16.8", -119° 28' 26.7"  
46.25467, -119.47409  
Benton City

**Comments:**

WDFW water access site
Benton City Boat Launch

**SA-YAK-29.6L** Photo: View of the Benton City boat launch

### Site Contact

**WDFW Region 3 South Central**  
Primary Contact: Management agency for water access site

Yakima, WA 98902  
509-575-2740

### Nearest Address

101 Abby Ave  
Benton City, WA 99320

### Driving Directions

**DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-29.6L/BL-YAK-29.6L) Benton City Boat Launch**

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)  
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (5.94 miles)  
3. At exit 96 take ramp on the right to WA-224 E / WA-225 N toward W Richland / Benton City (0.34 miles)  
4. Turn right on 1st St (WA-224) (0.19 miles)  
5. Turn right into the park across the street from Abby Ave (0.03 miles)  
6. Finish at the Benton City Boat Launch, 99320, on the right.
**Just Upstream of the Chandler Power Plant**

**Boat Launch Location**

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 15' 52.6&quot;, -119° 35' 28.0&quot;</th>
<th>46.26461, -119.59112</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benton City</td>
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</table>

**Comments:** HAND LAUNCH SITE ONLY - NO BOAT RAMP AVAILABLE

### Location Information

<table>
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<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
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</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
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<tr>
<td>Boat Ramp(s)</td>
<td>Natural (Grass/Dirt)</td>
<td>Steep grade during low water</td>
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<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
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<tr>
<td>Covered Spaces</td>
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<tr>
<td>Estimated Lot Size</td>
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<td>5,000 sq ft</td>
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<td>Fuel</td>
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<td>Lot Cover (Primary)</td>
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<tr>
<td>Power</td>
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<tr>
<td>Restroom</td>
<td>None</td>
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<tr>
<td>User Fee</td>
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<tr>
<td>Waste Disposal</td>
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<td>Water (potable)</td>
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**GRP Response Strategies Served:**

YAK-35.95L
Just Upstream of the Chandler Power Plant

Site Contact

US Bureau of Reclamation
Land/Property Contact : Yakima Field Office Manager

Yakima, WA 98901-2058
509-406-3031

Nearest Address

47400 W Old Inland Empire Hwy
Benton City, WA 99320

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-35.95L/BL-YAK-35.95L) Upstream of Chandler Power Plant

1. Head west from West Pasco on I-82 W to Yakima
2. At exit 96 take ramp on the right to WA-224 E/ WA-225 N to W Richland/Benton City (0.34 miles)
3. Turn right on 1st St (WA-224) (0.44 miles)
4. Continue on Babs Ave (WA-225) (0.47 miles)
5. Continue on 9th St (WA-225) (0.04 miles)
6. Turn left on Babs Ave (0.42 miles)
7. Bear right on 14th St (0.19 miles)
8. Turn left on N Kendall Rd NW (1.08 miles)
9. Turn left on W Old Inland Empire Hwy (4.5 miles)
10. Half a mile before 47400 W Old Inland Empire Hwy turn left at gravel drive for Chandler Power Plant. After a 90 degree turn, take the first right onto a dirt track. Go straight until the track dead ends at a T intersection; turn left and head toward the river.
11. Finish just up from the Chandler Power Plant on Old Inland Empire Hwy, Benton City, WA
Prosser Wastewater Treatment Plant Boat Launch

**Position - Location:**
- 46° 12.750', -119° 45.935'
- 46° 12' 45.0", -119° 45' 56.1"
- 46.21250, -119.76559
- Prosser

**Comments:**
Property is gated and locked after hours. Coordinate with City of Prosser for access; call 509-786-2332. May need to cut chain (not locks) after-hours if city contacts unavailable.

**Location Information**

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Natural (Grass/Dirt)</td>
<td>Single lane, 5 degree grade</td>
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<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
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<tr>
<td>Covered Spaces</td>
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<tr>
<td>Estimated Lot Size</td>
<td>5,000 sq ft</td>
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<tr>
<td>Fuel</td>
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<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
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<td>Parking - Car</td>
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<td>Parking - Trailer</td>
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<tr>
<td>Power</td>
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</tr>
<tr>
<td>Restroom</td>
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</tr>
<tr>
<td>User Fee</td>
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<td>Waste Disposal</td>
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<tr>
<td>Water (potable)</td>
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**GRP Response Strategies Served:**
YAK-42.9L, YAK-41.9L
Prosser Wastewater Treatment Plant Boat Launch

SA-YAK-46.5L Photo: View of the rivers edge at the Prosser Wastewater Treatment Facility primitive boat launch

**Site Contact**

City of Prosser  
Primary Contact : City Dispatch (Wastewater Treatment Facility)  
Prosser, WA 99350  
509-786-2332

**Nearest Address**

999 Grande Rd  
Prosser, WA 99350

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK46.5L/BL-YAK-46.5L) Prosser Wastewater Treatment Plant

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.38 miles)
5. Turn right on 10th St (0.1 miles)
6. Turn right on Grant Ave (0.18 miles)
7. Turn right on Grande Rd (0.05 miles), go across the bridge and turn left on canal road (0.15 miles) then take the first right just before the wastewater treatment plant. Follow the dirt track to the river (0.13 miles).
8. Finish at the boat ramp at the end. Address is 999 Grande Rd. Prosser, WA99350.
### Riverfront Park Boat Launch

**Position - Location:** 46° 12.248', -119° 46.624'    46° 12' 14.9", -119° 46' 37.5"    46.20414, -119.77707

**Prosser**

#### Comments:
- Additional parking close by

#### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Double ramps, 8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>4G</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>Yes</td>
<td>Pavilion nearby</td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td>22,500 sq ft</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Asphalt</td>
<td>70% asphalt, 30% gravel</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Marked</td>
<td>10</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>10</td>
</tr>
<tr>
<td>Power</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Flush</td>
<td>Bathrooms at Farrand Park across street</td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>Trash Receptacle</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

**GRP Response Strategies Served:**

YAK-47.2R, YAK-47.65R
Riverfront Park Boat Launch

SA-YAK-47.65R Photo: View of the boat launch at Riverfront Park in Prosser

Site Contact

City of Prosser
Land/Property Contact: Parks and Recreation

Prosser, WA 66350
509-786-2332

Nearest Address

904 Sheridan Ave
Prosser, WA 99350

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-47.65R/BL-YAK-47.65R) Riverfront Park Boat Launch

1. Head west from West Pasco on I-182 W / US-12 W toward Richland / Yakima (9.23 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (19.98 miles)
3. At exit 82 take ramp on the right to WA-22 toward Mabton (WA-221) / Paterson (0.35 miles)
4. Turn left on Wine Country Rd (WA-22) (1.73 miles)
5. Turn left on Wine Country Rd and immediately turn left on 6th St (0.12 miles)
6. Make sharp right on Sheridan Ave (0.26 miles)
7. Turn right into the boat launch parking area. Finish at Riverfront Park, 3rd St and Sheridan Ave, Prosser, WA 99350.
### Mabton Bridge Boat Launch

**BL-YAK-59.8L**

<table>
<thead>
<tr>
<th>Position - Location:</th>
<th>46° 13.930', -119° 59.993'</th>
<th>46° 13' 55.8&quot;, -119° 59' 59.6&quot;</th>
<th>46.23216, -119.99989</th>
<th>Mabton</th>
</tr>
</thead>
</table>

**Comments:** WDFW aquatic lands open to hunting

### GRP Response Strategies Served:
- YAK-61.2L, YAK-55.4R, YAK-60.45R, YAK-59.8L, YAK-55.3M, YAK-60.2R

### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Single lane, 4 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>4G</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>10,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>20</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>10</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**Position - Location:**
- Mabton Bridge Boat Launch
- 46.23216, -119.99989
- WDFW aquatic lands open to hunting

**Asset:**
- Type/Status: No
- Amount/Number: Single lane, 4 degree grade

**Location Information:**
- Asset: Boat Dock(s), Boat Ramp(s), Cell Phone Coverage, Covered Spaces, Estimated Lot Size, Fuel, Lot Cover (Primary), Parking - Car, Parking - Trailer, Power, Restroom, User Fee, Waste Disposal, Water (potable)
- Type/Status: No, Gravel, Yes, No, 10,000 sq ft, No, Dirt/Gravel, Not Marked, Not Marked, No, None, Yes, None, No

**Diagram:**
- Satellite view of the Mabton Bridge Boat Launch with marked locations and features.

**User Fee:** Yes, Discover Pass
SA-YAK-59.8L Photo: View of the Mabton Bridge primitive boat launch

**Site Contact**

**WDFW Region 3 South Central**

Land/Property Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

**Nearest Address**

6901 Mabton-Sunnyside Rd
Mabton, WA 98935

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-59.8L/BL-YAK-59.8L) Mabton Bridge Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~13.3 mi make sharp right turn onto Boundary Blvd (WA-221)
7. After ~0.2 mi continue slight left onto 1st Avenue (WA-221) in Mabton
8. After ~0.25 mi continue straight onto Mabton-Sunnyside Road (WA-241)
9. After ~1.0 miles (~600 ft after bridge over Yakama River) take left onto dirt road that leads to staging area/boat launch.
### Bond Road Primitive Boat Launch

**Position - Location:** 46° 14.566', -120° 5.014'  
46° 14' 34.0", -120° 5'.8"  
46.24277, -120.08356  
Mabton

**GRP Response Strategies Served:**  

#### Comments:  
Narrow dirt track leads to the river, can launch a small boat in high water, must hand launch in low water conditions, 4 degree grade. Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.

#### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Natural (Grass/Dirt)</td>
<td>single lane, 4 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>3,500 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt</td>
<td></td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>5</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>3</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
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<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
SA-YAK-66.8R Photo: View of the shoreline at low water conditions, OK for hand launch BL-YAK-66.8R

Site Contact

Yakama Nation
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

Nearest Address

119 Florence Road
Mabton, WA 98935

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-66.8R/BL-YAK-66.8R) Bond Road Primitive Boat Launch

1. Head west from West Pasco on I-182
2. After ~5.5 mi take ramp onto Interstate-82 heading west towards Prosser/Yakima
3. After ~20.0 mi take ramp at Exit 82 (WA-22)
4. At bottom of ramp turn left onto WA-22 (Wine Country Road)
5. After ~0.3 mi turn left onto Wine Country Road/Chapman Lane to stay on WA-22 towards WA-221
6. After ~17.0 mi turn right onto Bond Road; stay straight onto dirt road after crossing railroad tracks
7. After ~0.6 mi, road will curve to the left.
8. After ~0.5 mi, before small ditch with culvert, turn right and follow dirt road ~800 ft to river.
### Granger Public Works Boat Launch

**BL-YAK-82.8L**

#### Boat Launch Location

<table>
<thead>
<tr>
<th><strong>Position - Location:</strong></th>
<th>46° 20.126', -120° 11.730'</th>
<th>46° 20' 7.6&quot;, -120° 11' 43.8&quot;</th>
<th>46.33544, -120.19550</th>
<th>Granger</th>
</tr>
</thead>
</table>

**Comments:** No access issues (not gated)

#### Location Information

<table>
<thead>
<tr>
<th><strong>Asset</strong></th>
<th><strong>Type/Status</strong></th>
<th><strong>Amount/Number</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Concrete, Solid</td>
<td>Single lane, 7 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>40,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>20</td>
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<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>10</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
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<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

### GRP Response Strategies Served:

YAK-78.0L, YAK-80.55R, YAK-84.6R, YAK-77.05R, YAK-77.5R, YAK-74.9L, YAK-84.1R
SA-YAK-82.8L Photo: View of the boat launch at Granger Public Works on East A Street

**Site Contact**

**City of Granger**  
Land/Property Contact: Public Works  
Granger, WA 98932  
509-854-2770

**Nearest Address**

500 East A Street  
Granger, WA 98932

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-82.8L/BL-YAK-82.8L Granger Public Works Boat Launch)

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (43.82 miles)
3. At exit 58 take ramp on the right to WA-223 S toward Granger (0.34 miles)
4. Turn left on WA-223 (Vanbelle Rd) (1.02 miles)
5. Turn right on S Main St (0.22 miles)
6. Make sharp left on E A St (0.01 miles) drive back to the boat ramp. Should not be a locked gate.
7. Finish at 500 East A Street, 98932, on the left
**North Meyers Road Boat Launch**

**Position - Location:** 46° 24.045', -120° 16.856'  
46° 24' 2.7", -120° 16' 51.3"  
46.40075, -120.28093  
Toppenish

**Comments:** WDFW boat launch

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Single lane, 8 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>3 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>13,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>10</td>
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<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>5</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>Restroom - Portable</td>
<td>1</td>
</tr>
<tr>
<td>User Fee</td>
<td>Yes</td>
<td>Discover Pass</td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**GRP Response Strategies Served:**

North Meyers Road Boat Launch

SA-YAK-91.05L Photo: View of the N Meyers Rd boat launch

<table>
<thead>
<tr>
<th>Site Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WDFW Region 3 South Central</strong></td>
</tr>
<tr>
<td>Land/Property Contact: Management agency for water access site</td>
</tr>
<tr>
<td>Yakima, WA 98902</td>
</tr>
<tr>
<td>509-575-2740</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nearest Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000 N Meyers Rd</td>
</tr>
<tr>
<td>Toppenish, WA 98948</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Driving Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-91.05L/BL-YAK-91.05L) North Meyers Bridge Boat Launch</strong></td>
</tr>
<tr>
<td>1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (50.35 miles)</td>
</tr>
<tr>
<td>2. At exit 52 take ramp on the right toward Toppenish (0.28 miles)</td>
</tr>
<tr>
<td>3. Turn left on Toppenish Zillah Rd (0.13 miles)</td>
</tr>
<tr>
<td>4. Continue on N Meyers Rd toward Toppenish (0.4 miles), turn right into parking area after crossing the first of two bridges. The western most bridge will be closed for re-construction during 2017.</td>
</tr>
<tr>
<td>5. Finish at 3000 North Meyers Rd, 98948, on the right</td>
</tr>
</tbody>
</table>
**Wierman Road Primitive Boat Launch**

**BL-YAK-94.5R**

### Boat Launch Location

| Position - Location: | 46° 25.150', -120° 20.002' | 46° 25' 9.0", -120° 20'.1" | 46.41916, -120.33336 | Toppenish |

**Comments:** Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.

### Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Gravel beach, 5 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>4 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td></td>
<td>10,000 sq ft</td>
</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td>100%</td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>20</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>15</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Waste Disposal</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Water (potable)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

### GRP Response Strategies Served:

YAK-94.15R
Wierman Road Primitive Boat Launch

SA-YAK-94.5R Photo: View of the gravel beach boat launch off Wierman Road

Site Contact
Yakama Nation
Tribal Contact: Environmental Management Program
Toppenish, WA 98948
509-945-2939

Nearest Address
1402 Wierman Rd
Toppenish, WA 98948

Driving Directions
DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK94.5R/BL-YAK-94.5R) Wierman Road Primitive Boat Launch
1. Head west from West Richland on I-82 W (45.98 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (0.51 miles)
7. Turn right on Wierman Rd (1.65 miles)
8. Turn right just after 1402 Wierman Rd, 98948, on the left, follow dirt track off to the right the river (0.2 miles)
East Wapato Road Primitive Boat Launch

Position - Location: 46° 27.488', -120° 23.065'  46° 27' 29.3", -120° 23' 3.9"  46.45813, -120.38441  Wapato

_comments:
Primitive boat launch on cobblestone beach. Site is located on Tribal Lands; Call and coordinate activities with Yakama Nation at 360-280-6073.

Location Information

<table>
<thead>
<tr>
<th>Asset</th>
<th>Type/Status</th>
<th>Amount/Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Dock(s)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Boat Ramp(s)</td>
<td>Gravel</td>
<td>Beach, 3 degree grade</td>
</tr>
<tr>
<td>Cell Phone Coverage</td>
<td>Yes</td>
<td>~2 bars</td>
</tr>
<tr>
<td>Covered Spaces</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Estimated Lot Size</td>
<td>~4000 sq ft</td>
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</tr>
<tr>
<td>Fuel</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Lot Cover (Primary)</td>
<td>Dirt/Gravel</td>
<td></td>
</tr>
<tr>
<td>Parking - Car</td>
<td>Not Marked</td>
<td>5</td>
</tr>
<tr>
<td>Parking - Trailer</td>
<td>Not Marked</td>
<td>4</td>
</tr>
<tr>
<td>Power</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Restroom</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>User Fee</td>
<td>No</td>
<td>Contact Yakama Nation</td>
</tr>
<tr>
<td>Waste Disposal</td>
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<tr>
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GRP Response Strategies Served:

YAK-99.4L, YAK-97.95M, YAK-98.15L
SA-YAK-99.4R Photo: View of the cobblestone primitive boat launch at SA/BL-YAK-99.4R

**Site Contact**

**Yakama Nation**  
Tribal Contact: Environmental Management Program  
Toppenish, WA 98948  
509-945-2939

**Nearest Address**

1561 E Wapato Rd  
Wapato, WA 98951

**Driving Directions**

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK99.4R/BL-99.4R) East Wapato Road Primitive Boat Launch

1. Head west from West Pasco on I-82 W / US-12 W toward Prosser / Yakima (52.26 miles)
2. At exit 50 take ramp on the right to WA-22 E toward Toppenish / Buena (0.39 miles)
3. Turn left on Buena Rd (WA-22) (0.23 miles)
4. Continue on Buena Way (WA-22) (1.7 miles)
5. Turn right on E McDonald Rd (0.64 miles)
6. Bear right on N Track Rd (3.13 miles)
7. Make sharp right on N Oldenway Rd (1.85 miles)
8. Turn left on E Wapato Rd (0.34 miles)
9. Go past 1561 E Wapato Rd, 98951, on the right and take the next right on a dirt/gravel track (0.7 miles)
10. Go right at the third intersection and follow track to the river (0.1 miles) finish on a cobblestone beach at 46.458285, -120.384752
GRP Response Strategies Served:

YAK-103.1R, YAK-102.2L, YAK-102.1R

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Comments:
WDFW boat launch. Access road between parking lot and ramp may be flooded during winter months but the area of road that floods is paved and should not be too deep for full size trucks to navigate safely.
Mellis Frontage Road Boat Launch

SA-YAK-103.05L Photo: View of the Mellis Frontage Rd boat launch

Site Contact

WDFW Region 3 South Central
Land/Property Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

300 Mellis Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-103.05L/BL-YAK-103.05L) Mellis Frontage Road Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (58.07 miles)
3. At exit 44 take ramp on the right toward Wapato (0.4 miles)
4. Turn right on Donald Wapato Rd (0.39 miles)
5. Turn left on Yakima Valley Hwy (1.59 miles)
6. Turn left on Mellis Rd (0.3 miles), then turn right as soon as you go under the expressway.
7. Follow Mellis Frontage Rd until it ends at the WDFW boat launch parking area (0.4 miles). Use 300 Mellis Rd, Wapato, WA as an address for your navigation system.
0.2 Miles Downstream of the Wapato East Spillway

BL-YAK-106.3L

Position - Location: 46° 31.355', -120° 28.298'
46° 31' 21.3", -120° 28' 17.9"
46.52258, -120.47163

Comments: HAND LAUNCH SITE ONLY - NO BOAT RAMP AVAILABLE. Call and coordinate access with the Wapato Irrigation District 509-877-3155 ext 2. Site is on Bureau of Indian Affairs land.

Location Information

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<td>Power</td>
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<td></td>
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<td>Restroom</td>
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<tr>
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<td>Water (potable)</td>
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GRP Response Strategies Served:

YAK-105.8R
0.2 Miles Downstream of the Wapato East Spillway

SA-YAK-106.3L Photo: View of the put in to hand launch at BL-YAK-106.3L

Site Contact

Wapato Irrigation District (Bureau of Indian Affairs)
Land/Property Contact: Emergency contact
509-877-3155 ext. 3

Yakama Nation
Tribal Contact: Environmental Management Program
509-945-2939

Nearest Address

1811 Thorp Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK106.3L/BL-YAK-106.3L) 0.2 Miles Downstream of the Wapato East Spillway

1. Head west from West Richland on I-82 W toward Yakima (63.68 miles)
2. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
3. Turn right on Thorp Rd (2 miles)
4. Turn left to go under I-82 though the tunnel. Go past the Wapato spillway then follow the dirt/gravel drive to the left until you reach a stream crossing (0.3 miles).
5. Finish at BL/SA-YAK106.3L
## Century Landing Boat Launch

**Position - Location:** 46° 31.841', -120° 28.217'  
46° 31' 50.5", -120° 28' 13.0"  
46.53069, -120.47028  
Wapato

**Comments:** Site is managed by the Yakima Greenway Foundation. No access issues (not gated)

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### GRP Response Strategies Served:

YAK-106.75R, YAK-108.8L
Century Landing Boat Launch

SA-YAK-107.1L Photo: View of the Century Landing Boat Launch

Site Contact

Yakima Greenway Foundation
Land/Property Contact: Manages the Yakima Greenway and two boat launches
Yakima, WA 98901
509-453-8280

Nearest Address

82 Thorp Rd
Wapato, WA 98951

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-107.1L/BL-YAK-107.1L) Century Landing Boat Launch

1. Head west from West Pasco on I-182 W toward Richland (12.3 miles)
2. Take ramp on the right and go on I-82 W / US-12 W toward Prosser / Yakima (62.04 miles)
3. At exit 40 take ramp on the right to Thorp Rd toward Parker Rd (0.35 miles)
4. Turn right on Thorp Rd (1.81 miles)
5. Boat launch is on the left. Finish at 82 Thorp Rd, 98951, on the left.
**Harlan Landing Park**

**Position - Location:** 46° 37.895', -120° 31.305'  
46° 37' 53.7", -120° 31' 18.3"  
46.63158, -120.52175  
Yakima

**Comments:** No access issues (not gated), park may be busy seasonally

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**GRP Response Strategies Served:**

NACH-0.1R, YAK-116.0L, YAK-117.5R, YAK-116.8L, YAK-114.3L, YAK-117.2R, YAK-119.1R
Harlan Landing Park

Photo: View of the boat launch at Harlan Landing Park

Site Contact

Yakima Greenway Foundation
Land/Property Contact: Manages the Yakima Greenway and two boat launches

Yakima, WA 98901
509-453-8280

Nearest Address

41 Rovetto Road
Yakima, WA 98901

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-116.7L/BL-YAK-116.7L) Harlan Landing Park

1. Head west from West Richland on I-82 W (65.62 miles)
2. At exit 30B take ramp on the right to Rest Haven Road (0.16 miles)
3. Turn left on Rest Haven Rd toward Selah (0.08 miles)
4. Continue on Rovetto Rd (0.13 miles)
5. Finish at 41 Rovetto Road, 98901, on the left
**Roza Recreation Area**

**Position - Location:** 46° 45.836', -120° 27.397'  
46° 45' 50.1", -120° 27' 23.8"  
46.76393, -120.45662  
Yakima

**Comments:** Park sees heavy recreational use. Coordinate with US Bureau of Land Management 509-665-2100 for access.

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**GRP Response Strategies Served:**

YAK-129.8L, YAK-128.05R
Roza Recreation Area

Site Contact

Bureau of Land Management
Primary Contact: Wenatchee Office

Wenatchee, WA 98801
509-665-2100

Nearest Address

8681 Canyon Road
Yakima, WA 98901

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK-129.4L/BL-YAK-129.4L) Roza Recreation Area

1. Head west from Richland on I-82 E (1.96 miles)
2. At exit 104 take ramp on the right to Dallas Road (0.35 miles)
3. Turn left on N Dallas Rd (0.13 miles)
4. Turn left onto ramp and go on I-82 W toward Yakima (74.99 miles)
5. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
6. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
7. Make sharp left on WA-821 (Firing Center Rd) (7 miles)
8. Finish at Roza Recreation Area, 8681 Canyon Road, 98901, on the left.
Mile Post 8 Boat Launch  
BL-YAK-130.6L

**Position - Location:**  
46°46.541', -120°27.163'  
46°46'.32.5", -120°27'9.8"  
46.77569, -120.45272  
Yakima

**Comments:**  
WDFW water access site, may see heavy use seasonally

---

**Location Information**

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**GRP Response Strategies Served:**

YAK-130.6L
SA-YAK-130.6L Photo: View of the boat launch at WDFW Mile Post 8 water access site

Site Contact

WDFW Region 3 South Central
Land/Property Contact: Management agency for water access site

Yakima, WA 98902
509-575-2740

Nearest Address

70 Roza View Dr
Yakima, WA 98901

Driving Directions

DIRECTIONS TO STAGING AREA / BOAT LAUNCH (SA-YAK130.6L/BL-YAK-130.6L) Mile Post 8 Boat Launch

1. Head west from West Richland on I-82 W (67.06 miles)
2. At exit 29 take ramp on the right and go on E Selah Rd (2.33 miles)
3. At exit 26 take ramp on the right to WA-821 N toward Selah (WA-823) (0.37 miles)
4. Make sharp left on WA-821 (Firing Center Rd) (8.31 miles)
5. Turn left at Roza View Dr (0.01 miles)
6. Finish at Mile Post 8 boat launch (across the Canyon Road from 70 Roza View Dr, 98901), on the left
CHAPTER 5

(Reserved)
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CHAPTER 6

Resources at Risk

6.1 CHAPTER INTRODUCTION

This chapter provides a summary of natural, cultural, and economic resources at risk in the planning area. It provides general information on habitat, fish, and wildlife resources, and locations in the area where sensitive natural resource concerns exist. It offers a summary of cultural resources that include fundamental procedures for the discovery of cultural artifacts and human skeletal remains. General information about flight restrictions, wildlife deterrence, and oiled wildlife can be found near the end of this chapter. A list of economic resources in the area is provided in the chapter’s appendix.

This chapter is purposely broad in scope and should not be considered comprehensive. Some of the sensitive resources described in this chapter cannot be addressed in Chapter 4 (Response Strategies and Priorities) because it’s not possible to conduct effective response activities in these locations. Additional information from private organizations or federal, state, tribal, and local government agencies should also be sought during spills.

This material is presented with enough detail to give general information about the area during the first phase of a spill response. During an actual incident, more information about resources at risk will be available from the Environmental Unit in the Planning Section.

The information provided in this chapter can be used in:

- Assisting the Environmental Unit (EU) and Operations in developing additional response strategies beyond those found in Chapter 4.
- Providing resource-at-risk “context” to responders, clean-up workers, and others during the initial phase of a spill response in the GRP area.
- Briefing responders and incident command staff that may be unfamiliar with sensitive resource concerns in the GRP area.
- Providing background information for personnel involved in media presentations and public outreach during a spill incident.

6.2 NATURAL RESOURCES AT RISK - SUMMARY

Most biological communities are susceptible to the effects of oil spills. Plant communities on land, aquatic plants; microscopic plants and animals; and larger animals, such as fish, amphibians and reptiles, birds, mammals, and a wide variety of invertebrates, are all at potentially at risk from
smothering, acute toxicity, and/or the chronic long-term effects that may result from being exposed to spilled oil.

This section of the Yakima River basin includes a wide variety of aquatic, riparian, and upland habitats. These varied habitats support a complex diversity of wildlife species, including various salmonid species, large and small mammals, song birds, birds of prey, upland birds, and other waterfowl, as well as reptiles and amphibians. Some species are resident throughout the year; others are migratory either within the basin or, in numerous cases seasonally migrate outside the basin. Many wildlife species found in this area are classified as threatened, endangered, sensitive, or candidate for listing under either the federal Endangered Species Act or Washington State guidelines. The Yakima River has also been designated as critical habitat for Bull trout and Steelhead – both federally-listed species. Classification types are listed below, with the abbreviation of each type provided in the brackets (to the right of the classification).

- Federal Endangered (FE)
- Federal Threatened (FT)
- Federal Candidate (FC)
- State Endangered (SE)
- State Threatened (ST)
- State Sensitive (SS)

Sensitive species that may occur within this area, at some time of year, include the following federal and state listed species.

**Birds:**

- American white pelican [ST]
- Common Loon [SS]
- Ferruginous hawk [ST]*
- Greater sage-grouse [ST]*
- Sandhill crane [SE]
- Yellow-billed cuckoo [FT]*

**Mammals:**

- Gray wolf [SE/FT]*
- Western gray squirrel [ST]*

**Fish:**

- Bull trout [FT]
- Steelhead [FT]
Reptiles/Amphibians:

- Northern leopard frog [SE]

* Unlikely to be directly oiled during a spill incident.

6.2.1 General Resource Concerns

6.2.1a – Habitats:

- **Riverine channels** provide migration routes for both out-migrating juvenile and returning adult salmon. River channels with appropriate gravel substrates, cool temperature waters and flow regimes offer spawning habitat for both anadromous and resident salmonids. All of the Yakima River and its major tributaries in this planning area are designated critical habitat for bull trout and steelhead.

- **Wetlands** in this region range from freshwater emergent, freshwater forested/shrub, freshwater ponds and lakes. All wetland types support a diverse array of bird, insect and fish and wildlife species.

- **Backwater channels, stream mouths, and sloughs** provide important feeding and resting areas for waterfowl and herons and are critical rearing and resting areas for juvenile fish.

- **Islands** provide important nesting habitat for a variety of bird species, as well as habitat for a variety of mammals.

- **Riparian vegetation** is heavily used by a variety of wildlife and may also improve nearshore fish habitat.

- **Human-made structures** such as pilings and rock jetties may be used as roosting or nesting areas for a variety of birds.

6.2.1b – Fish and Shellfish:

- Juvenile and/or adult **salmonids** (including Coho salmon, Chinook, and Sockeye salmon, and steelhead) are present in the river throughout the year. Juvenile salmonids use backwaters, nearshore areas, and protected bays as rearing and foraging areas prior to migration into the ocean. Returning adult salmonids support significant tribal, commercial and recreational fisheries.

- **Anadromous fish** (other than salmon) in this region include Pacific lamprey, river lamprey and western brook lamprey.

- A wide variety of **resident fish** are present year-round in the river and include trout, sucker, bullhead, catfish, dace, bass, bluegill, sculpin, and walleye. Many of these species contribute to recreational fisheries and all provide important contributions to stream ecology.
• Freshwater mussels, (California floater), have been reported to exist within this general area although no documented occurrence data was found for this particular reach.

6.2.1c – Wildlife:

• Migratory and wintering waterfowl - The Yakima River supports significant waterfowl concentrations from fall through spring. Hundreds of thousands of geese and dabbling ducks may occupy this region during peak periods. Resident and migratory waterfowl heavily utilize the islands, sloughs, wetlands and adjacent uplands of the region from fall through spring. The many islands in this area also provide nesting habitat for resident waterfowl. Key among these are cinnamon and green-winged teal, gadwall, and American white pelican. Trees along the Naches River provides breeding habitat for the cavity-nesting wood duck.

• Great blue herons and raptors such as osprey, northern harrier, red-tailed hawk, Swainson's hawk, golden eagle, prairie falcon, and the American kestrel are nesting residents of this area and may be found year-round throughout the region. In addition, the Naches River provides breeding habitat for Lewis' woodpecker and the greater sage-grouse.

• Resident and migratory songbirds heavily utilize riparian habitats year-round and are susceptible to oiling if riparian vegetation and shorelines become contaminated.

• Mammals common to the reach include deer and elk, bats, and various semi-aquatic species such as muskrat, beaver, river otter, etc. Semi-aquatic mammals are largely dependent on riverine areas, ponds, tributaries, and riparian forests for den sites and foraging areas.

6.2.2 Specific Geographic Areas of Concern

Yakima River, (~RM 4.5-130).
The Yakama Nation, irrigation infrastructure, private lands, and recreational areas are located within the YAK-GRP planning area. Specific areas of concern are listed below and depicted on the map in Figure 6.1. The number preceding the area name in the list below relates to the numbered area on the map.

1. W.E. Johnson Park (~RM 6 - 7): Approximately 236 acres of public day-use area administered by Richland Parks and Recreation. Off channel habitat provides fish and waterfowl concentration areas. Open space, wetlands, riparian vegetation. Recreation includes hiking and birding.

2. Barker Ranch Wetland (~RM 12 - 16): Approximately 2,000 acres of off-channel areas for fish and birds, waterfowl concentration area, and great blue heron presence. Wetland draws water from Yakima River. There are also several associated islands along the river main stem with back channels.
3. **Horn Rapids County Park (~RM 18 - 21):** Approximately 800 acres of transitional river backchannel area north side of island RM 20 fish and bird habitat. While American white pelicans [SE] and other birds forage just downstream of the Horn Rapids Dam.

4. **The Island (~RM 24.5):** Back Channel area current refuge for salmonids and waterfowl.

5. **Songbird Island (~RM 26 - 27):** Juvenile salmonid rearing and waterfowl habitat.

6. **Sunnyside Wildlife Recreation Area/Byron Pond Unit (~RM 52 - 57, south side):** Approximately 1,000 acres. Waterfowl concentration areas. These wetlands and ponds serve as a nesting/breeding and overwintering habitat for waterfowl and other birds.

7. **Sunnyside State Wildlife Recreation Area (~RM 57 - 59 south side, ~RM 59 - 72 north side):** Waterfowl concentration area. Habitat used by a variety of ducks, geese and swans. Great blue heron nesting area ~RM 98.5-69.5.


9. **Blue heron concentration area (~ RM 79 - 82):** Heron rookery (nesting) area along riparian area.

10. **Zillah area wetland (~RM 88 - 93):** The back channel area to the north of the main channel offer habitat for warm water fish as well as off-channel forage and refuge areas for salmonids, including; Chinook, coho, steelhead, and rainbow trout. There is a great blue heron rookery at the north end of this area between RM 92 and 93.

11. **Buena area wetland (~RM 94.5 – 98):** Foraging area for nesting osprey. The back channel area to the east of the main channel offer habitat for warm water fish as well as off channel forage and refuge areas for salmonids.

12. **Parker area wetland (~RM 106 - 107):** Riparian habitat. Salmonid spawning stream and juvenile salmonid rearing habitat in off-river channels. Concentrations of migrating and overwintering waterfowl along nearby islands and river channels.

13. **Union Gap braided river system (~RM 107.4 - 110):** Off channel areas to the east of the main channel supports a waterfowl concentration great blue heron and painted turtles. These areas also support salmonids particularly overwintering juveniles.

14. **Yakima Sportsman State Park (~RM 112):** Approximately 250 acres of public access recreation area administered by Washington State Parks. Significant back channel habitat suitable for salmonids and birds.
15. Selah wetlands (~RM 117-121): Waterfowl concentration area, primarily mallards and Canada geese. A great blue heron nesting area is located on the west bank of the river (~RM 121). Salmonid habitat present in adjacent off channel areas. Riverine and wetland habitats.

Figure 6-1: Specific Areas of Concern - West Richland (RM 4.5) to Benton City (RM 30)
Figure 6-2: Specific Areas of Concern - Grandview (RM 52) to and Granger (RM 82)
Figure 6-3: Specific Areas of Concern - Zillah (RM 88) to Parker (RM 107)

Figure 6-4: Specific Areas of Concern - Union Gap (RM 104) to Selah (RM 128)
6.3 CULTURAL RESOURCES AT RISK - SUMMARY

Culturally significant resources are present within the planning area. Information regarding the type and location of cultural resources is maintained by the Washington Department of Archeology and Historic Preservation (WDAHP). This sensitive information is made available to the Washington Department of Ecology for oil spill preparedness and response planning. The Tribal Historic Preservation Offices (THPOs) or Cultural Resource Departments of local tribes (see table 6-1) may also be able to provide information on cultural resources at risk in the area and should be contacted, along with WDAHP, through normal trustee notification processes when significant oil spills, or smaller spills above reportable thresholds, occur in the area.

During a spill response, after the Unified Command is established, information related to specific archeological concerns will be coordinated through the Environmental Unit. In order to ensure that tactical response strategies do not inadvertently harm culturally sensitive sites, WDAHP should be consulted before disturbing any soil or sediment during a response action. WDAHP and/or the Tribal governments may assign a person, or provide a list of professional archeologists that can be contracted, to monitor response activities and cleanup operations for the protection of cultural resources. Due to the sensitive nature of such information, details regarding the location and type of cultural resources present are not included in this document.

Table 6.1. YAK-GRP Cultural Resources Contacts

<table>
<thead>
<tr>
<th>Contact</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washington Department of Archaeology and Historic Preservation</td>
<td>(360) 586-3080</td>
<td><a href="mailto:Rob.Whitlam@dahp.wa.gov">Rob.Whitlam@dahp.wa.gov</a></td>
</tr>
<tr>
<td>U.S. Bureau of Reclamation</td>
<td>(509) 731-7733</td>
<td><a href="mailto:Awhurley@usbr.gov">Awhurley@usbr.gov</a></td>
</tr>
<tr>
<td>Confederated Tribes of the Yakama Nation</td>
<td>(509) 865-5121</td>
<td><a href="mailto:kate@yakama.com">kate@yakama.com</a></td>
</tr>
</tbody>
</table>

6.3.1 Discovery of Human Skeletal Remains

Any human remains, burial sites, or burial-related materials that are discovered during a spill response must be treated with respect at all times (photographing human remains is prohibited to all except the appropriate authorities). Refer to Section 9403 of the Northwest Area Contingency Plan for National Historic Preservation Act Compliance Guidelines during an emergency response.

6.3.2 Procedures for the Discovery of Cultural Resources

If any person monitoring work activities or involved in spill response believes that they have encountered cultural resources, all work must be stopped immediately and the Incident Commander and Cultural Resource Specialist notified. The area of work stoppage must be
adequate to provide for the security, protection, and integrity of the material or artifact(s) discovered.

**Prehistoric Cultural Resources:** (May include, but are not limited to, any of the following items)

- Lithic debitage (stone chips and other tool-making byproducts)
- Flaked or ground stone tools
- Exotic rock, minerals, or quarries
- Concentrations of organically stained sediments, charcoal, or ash
- Fire-modified rock
- Rock alignments or rock structures
- Bone (burned, modified, or in association with other bone, artifacts, or features)
- Shell or shell fragments
- Petroglyphs and pictographs
- Fish weirs, fish traps, and prehistoric water craft
- Culturally modified trees
- Physical locations or features (traditional cultural properties)

**Historic cultural material:** (May include any of the following items over 50 years old)

- Bottles, or other glass
- Cans
- Ceramics
- Milled wood, brick, concrete, metal, or other building material
- Trash dumps
- Homesteads, building remains
- Logging, mining, or railroad features
- Piers, wharves, docks, bridges, dams, or shipwrecks
6.4 ECONOMIC RESOURCES AT RISK SUMMARY

Socio-economic sensitive resources are facilities or locations that rely on a body of water to be economically viable. Because of their location, they could be severely impacted if an oil spill were to occur. Economically sensitive resources are separated into three categories: critical infrastructure, water dependent commercial areas, and water dependent recreation areas. Appendix 6A of this chapter provides a list of economic resources for this planning area.

6.5 GENERAL INFORMATION

6.5.1 Flight restriction zones

Flight restriction zones may be recommended by the Environmental Unit (Planning Section) for the purpose of reducing disturbances that could result in injury to wildlife during an oil spill. By keeping a safe distance or altitude from identified sensitive areas, pilots can lessen the risk of aircraft/bird collisions, prevent the accidental hazing of wildlife into oiled areas, and avoid causing the abandonment of nests.

Implementation of Flight Restriction Zones will take place within the Air Operations Branch (Operations Section) after a Unified Command is formed. The Planning Section’s Environmental Unit will work with the Air Ops Branch Director to resolve any potential conflicts with flight activities that are essential to the spill response effort. Typically, the area within a 1,500-foot radius and below 1,000 feet in altitude is restricted to flying in areas that have been identified as sensitive; however, some areas have more restrictive zones. In addition to restrictions associated with wildlife, Tribal authorities may also request notification when overflights are likely to affect culturally sensitive areas within reservations. See Section 9301.3.2 and Section 9301.3.3 of the Northwest Area Contingency Plan for more information on the use of aircraft and helicopters in open water and shoreline responses.

6.5.2 Wildlife Deterrence

Attempting to capture oiled wildlife can be hazardous to both the animal and the person attempting the capture. Response personnel should not approach or attempt to recover oiled wildlife. Responders should report their observations of oiled wildlife to the Wildlife Branch so appropriate action can be taken. Information provided should include the location, date, and time of the sighting, and the estimated number and kind of animals observed. Early on in the response, before a Unified Command is established, oiled wildlife sightings should be reported to Washington Emergency Management Division. For more information see the Northwest Wildlife Response Plan (NWACP Section 9310).

6.5.3 Oiled Wildlife

Attempting to capture oiled wildlife can be hazardous to both the animal and the person attempting the capture. Response personnel should not approach or attempt to recover oiled wildlife.
Responders should report their observations of oiled wildlife to the Wildlife Branch so appropriate action can be taken. Information provided should include the location, date, and time of the sighting, and the estimated number and kind of animals observed. Early on in the response, before a Unified Command is established, oiled wildlife sightings should be reported to Washington Emergency Management Division. For more information see the Northwest Wildlife Response Plan (NWACP Section 9310).
APPENDIX 6A

List of Economic Resources

(To Be Developed)