XXX River

Geographic Response Plan

Chapter 6 - Resources at Risk

1. - Chapter Introduction

This chapter provides a summary of natural, cultural, and economic resources at risk in the Grays Harbor 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 includes fundamental procedures for the discovery of cultural artifacts and the discovery of human skeletal remains. General information about flight restrictions, hazing, and oiled wildlife can be found near the end of this chapter. A list of economic resources is located in the chapter's appendix.

This chapter is purposely broad in scope and should not be considered comprehensive. Some of the sensitive resources provided in this chapter are listed because they could not be addressed in Chapter 4 (Response Strategies and Priorities). Additional information from private organizations or federal, state, tribal, and local government agencies should also be sought during spills and considered.

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.

6.1.1- Wildlife and Sensitive Habitat Information and Mitigation Strategies Matrix (Note: Section 6.2 Information will be placed in a matrix table)

Sensitive species that may occur within this area, at some time of year, include the following federal and state listed species. In addition to Grays Harbor, the area covered includes the outer beaches and marine waters of the Pacific Coast that fall within the boundaries of this GRP. The following designations apply:

* Federal Endangered (FE)
* Federal Threatened (FT)
* Federal Candidate (FC)
* Federal Species of Concern (FCo)
* State Endangered (SE)
* State Threatened (ST)
* State Candidate (SC)
* State Sensitive (SS)

Birds:

* Marbled Murrelet [FT/ST]
* Snowy Plover [FT/SE]
* Streaked Horned Lark [FC/SE]
* Brown Pelican [FCo/SE]
* Bald Eagle [FCo/SS]
* Peregrine Falcon [FCo/SS]
* Common Loon [SS]
* Common Murre [SC]
* Western Grebe [SC]
* Brant's Cormorant [SC]
* Cassin's Auklet [FCo/SC]
* Northern Goshawk [FCo/SC]

Mammals:

* Southern Resident Killer Whale [FE/SE]
* Steller Sea Lion [ST]
* Gray Whale [SS]

Fish:

* Bull trout [FT/SC]
* Pacific herring [FCo/SC]

Fish: (continued)

* Pacific lamprey [FCo]
* River lamprey [FCo]
* Coastal Cutthroat trout [FCo]
* Green Sturgeon [FCo]

Reptile:

* Green Sea Turtle [FT/ST]
* Leatherback Sea Turtle [FE/SE]
* Loggerhead Sea Turtle [FE/ST]
1. - General Resource Concerns 6.2.1a - Habitats:
* Rivers and Smaller Tributary Streams: Several rivers and smaller tributary streams flow into this estuary. These serve as important salmon migration routes and spawning areas, and provide important rearing habitat for juveniles of the species
* Lakes:
* Stream Mouths on Outer Beaches: Stream mouths on the outer beaches are concentration areas for a variety of wildlife.

6.2.1b - Fish

* Juvenile salmonids: The estuary is important nursery and foraging area for juvenile salmonids including stocks of coastal cutthroat trout; winter and summer steelhead; fall, spring, and summer chinook; and coho.

6.2.1c - Wildlife

* Waterfowl Concentrations: Waterfowl concentrations occur from fall through spring, especially in North Bay.
* Bald Eagles: Bald Eagles nest throughout the region and forage throughout the bay.
* Peregrine Falcons: Peregrine Falcons are common during peak shorebird abundance in spring
* Pacific Pond Turtle
* Foothill Yellow-legged frog
	+ - 1. Permit Matrix (Any needed permits such as Nationwide 20, Section 7)

6.1.2 Wildlife Response Plan: Short paragraph on our Wildlife Response Plan and include internet link.

* + 1. Oiled Wildlife: Attempting to capture oiled wildlife can be hazardous to both the animal and the person attempting the capture the animal. Response personnel should not approach or attempt to recover oiled wildlife. Responders should report their observations 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 OWCN.
		2. Flight restriction zones: Flight restriction zones may be recommended by the Environmental Unit (Planning Section) for the purpose of minimizing disturbance that could result in injury to wildlife during an oil spill. By keeping a safe distance or altitude from identified sensitive areas, pilots can minimize the risk of aircraft/ bird collisions, prevent the accidental hazing of wildlife into oiled areas, and avoid causing abandonment of nests or marine mammal pupping areas.

6.2- Cultural Resources and Historic Properties at Risk

Culturally sensitive sites and Historic Properties are present within this GRP area. Due to the nature of this information, details regarding the location and type of cultural resources present are not included in this document. However, in order to ensure that tactical response strategies do not inadvertently harm historical and culturally sensitive sites, Washington Department of Archeology and Historic Preservation (WDAHP) should be consulted before disturbing any soil or sediment during a response action. WDAHP may assign a person to monitor cleanup operations, or provide a list of professional archeologists that can be contracted to monitor response activities.

Information on the location of culturally sensitive sites is maintained by WDAHP and made available to Washington Department of Ecology for oil spill preparedness and response planning. The Quinault Indian Nation, Chehalis Confederated Tribes, and Shoalwater Bay Tribe

may also be able to provide information on cultural resources at risk in this GRP area and should be consulted. After the Unified Command is established, information related to specific archeological concerns will be coordinated through the Environmental Unit. Procedures for managing the discovery of human skeletal remains and cultural and historic resources can be found in Appendix XX.

6.3- Economic Resources at Risk

Socio-economically 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 GRP area.

6.3.1 Drinking, Industrial and Agricultural Intakes

6.3.2 Dams and Hydroelectric Facilities

6.3.3 Recreation

Water dependent recreation contributes to the economy of Grays Harbor by promoting tourism. The Grays Harbor area is home to five Washington State Parks and a number of recreational beaches, including ocean beaches. The area has a National Wildlife Refuge and two state wildlife recreation areas. Boating, sport fishing, and boat charters are all active and valuable recreational industries in the area. Bird watching is another valuable part of local tourism; many people from outside the region travel to Grays Harbor each year to view sea birds and shorebirds in their natural habitat, and to see the spring migration of hundreds of thousands of birds that stop each year at the Grays Harbor National Wildlife Refuge (Bowerman Basin). The refuge is a Western Hemisphere Shorebird Reserve Network Site; one of only eight similar sites in the Western Hemisphere.

6.3.4 Waterfront Businesses

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| --- | --- |
|  | List of Economic Resources at RiskDecember 2013Grays Harbor Geographic Response PlanSocio-Economic Resources at RiskA. Critical Infrastructure |
|  | A1 - Drinking Water Intakes |  |  |
| Name or General Location | Location/Address | Lat/Long | Contact | Phone |  |
| No Information |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |
|  | A2 - Energy/Power Generation Water Intakes (Lock & Dams Included) |  |
| Name or General Location | Location/Address | Lat/Long | Contact | Phone |  |
| No Information |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |
|  | A3 - Federal or State Water Projects or Irrigation Channels for Agriculture |
| Name or General Location | Location/Address | Lat/Long | Contact | Phone |  |
| WA Dept. of Ecology WQImprovement Project | Grays Harbor AreaWRIA 22 Lower Chehalis | 46.963, -124.0432 | Dave Rountry | 360-407-6276David.Rountry@ecy.wa.gov |
|  | 6A-1 |  |

|  |  |  |
| --- | --- | --- |
|  | List of Economic Resources at RiskDecember 2013B. Water Dependent Commercial Areas |  |
|  | B1 - Industrial Intakes |  |  |
| Name or General Location | Location/Address | Lat/Long | Contact | Phone |  |
| Brady's Oysters Well #1 | Aberdeen, WA | 46.8589, -124.0710 | Kristi Ballo | 360-268-0077;ballos@comcast.net |
| Classic Hi-Crop Well #1 | Westport, WA | 46.8667, -124.0564 | John Cowan | 360-268-0565;jscowan1@comcast.net |
| Lytle Seafoods Well #1 | Hoquiam, WA | 47.0045, -124.0030 | Kathy and Mike Lytle | 360-538-2654;kmlytle@comcast.net |
| Ocean Spray Cranberries Well #1 | Aberdeen, WA | 46.9032, -123.9979 | Glen Piehl | 360-648-2552;gpiehl@oceanspray.com |
| Ocean Spray Cranberries Well #6 | Aberdeen, WA | 46.9060; -123.9976 | Glen Piehl | 360-648-2552gpiehl@oceanspray.com |
|  |  |  |  |
|  | B2 - Agricultural Irrigation Intakes |  |
| Name or General Location | Location/Address | Lat/Long | Contact | Phone |  |
| No Information |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |
|  | B3 – Fish Hatcheries |  |
| Name or General Location | Location/Address | Lat/Long | Contact | Phone |  |
| See Section B5 (below) |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
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| List of Economic Resources at RiskDecember 2013 |  |  |  |  |
|  | B4 - Marinas |  |  |  |
|  | Name or General Location | Location/Address | Lat/Long | Contact | Phone |  |
|  | Westport MarinaPort of Grays Harbor | 326 E. Lamb Street Westport, WA | 46.9070, -124.1110 | Marina Manager | 360-268-9665 |  |
|  | Ocean Shores Marina | Discovery AvenueOcean Shores, WA | 46.9489,-124.1311 | Manager | 360-289-0414 |  |
|  |  |  |  |  |
|  | B5 – Recreational Areas |  |  |  |
|  | Name or General Location | Location/Address | Lat/Long | Contact | Phone |  |
|  | Coast Seafoods Co.(North Bay) | P.O. Box 1124South Bend, WA 98586 | 47. 0132, -124.1412 | Greg Dale | 707-442-2947gregd@coastkumo.com |  |
|  | Grass Creek Oyster Co.(North Bay) | 1975 Lakemoor Lane SW Olympia, WA 98512-5542 | 46.9763, -124.0301 | Jerry Swan | 360-754-9312jswan1@prodigy.net |  |
|  | Lone Tree Oyster Co.(North Bay) | 209 Burrows RoadHoquiam, WA 98550 | 47.0077, -124.0791 | Don Harders | 360-538-1348dcharders@gmail.com |  |
|  | Nagles Chenois Creek Oyster Co.(North Bay) | 131 Beacon Hill Drive Hoquiam, WA 98550 | 47.0077, -124.0791 | Ron Young | 360-532-7246;roncarole9@msn.com |  |
|  | Aquatic Harvest Inc. | 2214 State Route 105Aberdeen, WA 98520 | 46.8780, -124.0645 | Todd Guedon | 360-648-2233 |  |
|  | Brady's Oysters Inc. | 3714 Oyster Place Aberdeen, WA 98520 | 46.8628, -124.0723 | Kristi Ballo | 360-268-0077ballos@comcast.net |  |
|  | Coast Seafoods Co. | PO Box 1124South Bend, WA 98586 | 46.9143, -124.0519 | Greg Dale | 707-442-2947gregd@coastkumo.com |  |
|  | Grays Harbor Oyster | 43 Race LaneAberdeen, WA 98520 | 46.8790, -124.0776 | Roger Johnson | 360-648-2464sboyster@yahoo.com |  |
|  |  | 6A-3 |  |  |