Marine Construction Dredging Pile Driving

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CONTRACTORS LIC NO. 223-01-AM-ER-IC*372 NO.

Columbia River Crossing Project Office 700 Washington Street, Suite 300 Vancouver, WA 98660 Attn: Frank Green, P.E.		JOB #: TITLE:	DATE January 20, 2011 Columbia River Bridge Termporary Pile Test Program (#8078)	
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These ite	ems are bei	ng sent:		
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REMAR	RKS:			
Please co	ontact us pr	romptly if there is a problem or question	n AMERICAN CON	STRUCTION COMPANY, INC.
COPY	то:		BY:	Vernon IIV

I-5, COLUMBIA RIVER BRIDGE TEMPORARY PILE TEST PROGRAM - WA 0.3 TO OR MP 308.0 (Contract #8078)

Spill Prevention, Control and Countermeasures (SPCC) Plan

CONTRACTOR:

American Construction Company, Inc. 1501 Taylor Way Tacoma, WA 98421

DATE:

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Columbia River Crossing

INTRODUCTION

This Spill Prevention, Control and Countermeasure (SPCC) Plan has been prepared by American Construction Company, Inc. (Contractor) to satisfy the contractual specifications for the I-5, Columbia River Bridge Temporary Pile Test Program project (Contract #8078).

This SPCC Plan shall be updated throughout the duration of the construction, so to reflect actual site conditions and practices. A copy of the updated plan will be maintained on-site. All project employees will be trained in spill prevention and containment, and will know where this SPCC Plan and spill response kits are located, and have immediate access to them.

If hazardous materials are encountered or spilled during construction work, the Contractor will do everything possible to control and contain the material until appropriate measures can be taken. The Contractor shall supply and maintain appropriate spill response kits within close proximity to hazardous materials and equipment.

The Contractor will implement the spill prevention measures identified in this SPCC Plan before performing any of the following:

- Placing piles, materials or equipment in staging or storage areas
- · Refueling, washing or maintaining equipment
- Stockpiling contaminated materials

SPCC PLAN ELEMENTS

The WSDOT project for which this SPCC Plan was developed is the I-5, Columbia River Bridge Temporary Pile Test Program project (Contract #8078). Brief descriptions of the elements of this SPCC Plan are as follows:

- **Responsible Personnel**: Provides the identity of the name(s), title(s), and contact information for the personnel responsible for implementing and updating the plan, including all spill responders.
- Spill Reporting and Cleanup: Lists the names and telephone numbers of the Federal, State and Local agencies the Contractor will notify in the event of a spill.
- **Project and Site Information**: Identifies the project work, site location and boundaries, drainage pathways from the site, and any nearby waterways and sensitive areas and their distances from the site.
- Potential Spill Sources: Describes the potentially hazardous materials brought or generated on-site; including, materials/supplies used for equipment operation, refueling, maintenance or cleaning.
- Pre-Existing Contamination: Describes any pre-existing contamination and contaminant sources in the project area that are described in the Contract documents. Equipment and work practices that will be used to prevent the release of contamination are described.

- Spill Prevention and Response Training: Describes how and when all personnel will be trained in spill prevention, containment and response in accordance with this SPCC Plan.
- **Spill Prevention:** Describes in detail the spill response kits, security measures for potential spill sources, secondary containment practices and structures, stormwater protection, site inspection procedures and inspection frequency, and on-site equipment and structure maintenance practices.
- **Spill Response:** Outlines the response procedures; including, assessing the hazard, securing spill response and personal protective equipment, containing and eliminating the spill source, and mitigating and removing the spilled material.
- Project Site Map: Provides a general description of the jobsite; including, the site location, boundaries, access roads, drainage pathways and topography, nearby waterways and sensitive areas, potential spill sources, pre-existing contamination situation, and spill prevention and response equipment listing.
- **Spill Report Forms:** Shows a copy of the Spill Report form to be used by the Contractor in the event of a release or spill on-site.

RESPONSIBLE PERSONNEL

Contractor "person(s)-in-charge" responsible for Spill Prevention are:

	Kevin Culbert (Project Manager)	Office Phone	(253) 254-0118
		Cell Phone	(425) 870-3211
•	Vernon Uy (Project Superintendent)	Cell Phone	(425) 870-3217
•	TBD (Project Foreman)	Cell Phone	TBD

SPILL REPORTING AND CLEANUP

Spills into State waters, spills onto land with a potential for entry into state waters, or other significant water quality impacts, shall be reported immediately. Containment, clean-up and disposal efforts shall begin immediately and be completed as soon as possible. These efforts will take precedence over the normal work.

The Contractor "person(s)-in-charge" (see above) will immediately contact all of the following federal, state and local agencies in the event of an on-site spill or release in State waters:

National Response Center	1-800-424-8802
WA State Division of Emergency Management (24 HR)	1-800-258-5990
Ecology Southwest Regional Office	(360) 407-6300
	1-800-452-0311
DEQ Environmental Cleanup	(503) 229-6931
	WA State Division of Emergency Management (24 HR) Ecology Southwest Regional Office Oregon Emergency Response System (24 HR)

In the event of an on-site spill or spill to Soil (including encounters of pre-existing contamination), the Contractor "person-in-charge" will contact the Ecology Dept. Southwest Regional Office @ (360) 407-6300 immediately – if there are immediate threats to health or the environment (ie., explosive, flammable, toxic vapors, shallow groundwater, nearby creek). If

not, then he will make contact within 90 days. Also, he will contact the Oregon Emergency Response System @ 1-800-452-0311 immediately – if there are immediate threats to health or the environment (ie., explosive, flammable, toxic vapors, shallow groundwater, nearby creek), and/or if the spill is in excess of 42 gallons.

In the event of a confirmed release of material from an existing Underground Storage Tank(s), the Contractor "person-in-charge" will contact the Ecology Dept. Southwest Regional Office @ (360) 407-6300 within 24 hours.

PROJECT AND SITE INFORMATION

Project Work: This project provides for the improvement of I-5 Columbia River Bridge, MP OR 308.0 to WA 0.3, Columbia River Mile 106.5, Columbia River Bridge Vicinity Pile Driving, by installing piles, pile instrumentation, pile testing, removing piles, and installing noise attenuation system, and other work.

Site Location and Boundaries: The project is located at the Columbia River, inside the Oregon/Washington border, about 500ft west of the existing I-5 Columbia River bridge. The project site is in the waters of the Columbia River. The test piling northing and easting locations are shown on Sheet PLS1 of the Contract Drawings.

See (below) copies of Sheet VM1 (VICINITY MAP) and Sheet PLS1 (PILE LOCATION AND SCHEDULE) for further details of the project's site location and boundaries:

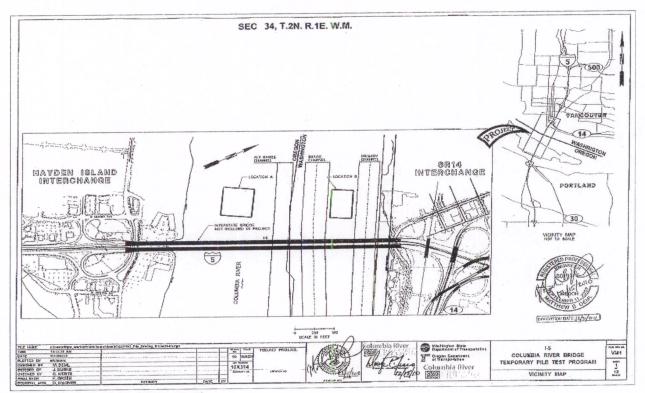


Figure 1: Vicinity Map (Sheet VM1)

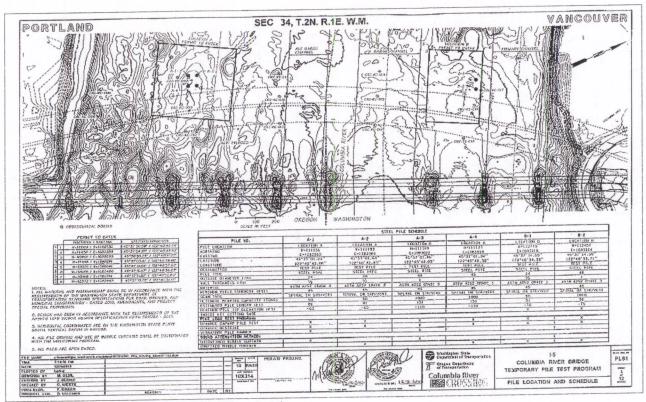


Figure 2: Pile Location and Schedule (Sheet PLS1)

POTENTIAL SPILL SOURCES

Hazardous materials on-site for the equipment include: diesel, gasoline, oils and hydraulic fluids. Heavy equipment will include a floating crane/derrick, material barge, tugboat, work skiff, vibratory hammer, impact hammer with leads, and pickup trucks. Smaller, more portable equipment will include generator, compressor, welding machine, torch, pneumatic and electrical tools.

The following table lists the identity of the hazardous materials with the equipment and the estimated maximum amount on-site at any one time:

Equipment	Qty	Hazardous Material	Amount (gal)
Derrick	1	Diesel (internal fuel tank), engine oil	60,000
Tugboat	1	Diesel (internal fuel tank), engine oil	800
Work Skiff	1	Gasoline (internal fuel tank), engine oil	10
Impact Hammer	1	Diesel in external fuel tanks	45
Vibratory Hammer	1	Diesel (internal fuel tank), engine oil	100
Compressor	1	Diesel (internal fuel tank), engine oil	20
Generator/Welder	2	Diesel (internal fuel tank), engine oil	10
Pickup Trucks	2	Gasoline (internal fuel tank), engine oil	25

During and after work hours, equipment will be staged on the Columbia River inside the designated locations "A" and/or "B" per Figure 2. Some equipment, including office trailers, tool connex and vehicles will be staged at the designated Contractor Staging Area(s). These area will be secured.

The designated storage areas of hazardous materials are onboard the floating crane/derrick, tugboat, and inside covered job boxes on spill pallets. Storage for hazardous materials from previous clean ups will be inside labeled drums. These storage drums will have secondary containment (spill pallet). Once a storage drum is full, it will be immediately removed from the site and sent away for proper disposal.

No bulk storage of fuel, hydraulic fluid, and lubricating oils will occur on-site. All oil, fuel or chemical storage tanks or containers will be "diked" and located on impervious surfaces. Storage areas will be secured to prevent vandalism. Contained spilled waste, chemicals or petroleum products will be transported offsite for disposal at an approved facility.

During equipment fueling operations, spills will be contained within a spill pallet. All fueling operations will involve transfer of fuel/oil/fluid from small containers to the equipment. Fueling operations will be performed using a funnel and/or hand pump, and with drip pans, spill pads or other protective devices for containment of any incidental spills.

Fuel hoses, oil drums, oil or fuel transfer valves and fittings, etc., shall be checked regularly for drips or leaks. Drips or leaks will be monitored and properly contained and stored to prevent spills onto ground or into State waters. Paint and solvent spills shall be treated as oil spills, and shall be prevented from reaching storm drains or other discharges. No cleaning solvents or chemicals used for tool or equipment cleaning may be discharged to the ground or water.

Spill-response kits will be located at each designated hazardous material storage area. A kit will also be near the fueling operation and easily accessed. Spill-response kits include: appropriate PPE (resistant gloves, eye protection), plastic sheets, heavy-duty trash bags, overpack drums, lidded buckets, kitty litter, spill pads, brooms and shovels.

PRE-EXISTING CONTAMINATION

There are no known soil and/or groundwater contamination at the site. Work on this project will not require any excavation activities; therefore, underground storage tanks and buried pipelines will not be encountered.

SPILL PREVENTION AND RESPONSE TRAINING

American Construction Company realizes the importance of immediate response to any hazardous spills. As such, we recognize the elements of spill prevention, control and countermeasure - and train our personnel (and subcontractors) on the appropriate actions to

be taken, and information to be communicated to the designated Contractor "person-in-charge" responsible for Spill Prevention.

American Construction Company personnel will be trained on the contents of this SPCC Plan, including spill source and receptor recognition, spill prevention planning, spill prevention techniques, spill response measures, and spill reporting protocols. Training will be provided prior to the start of the project. Maintenance of the training will be periodically provided onsite during the duration of the project.

SPILL PREVENTION

Spill Response Kit Contents and Locations: The kits include: appropriate PPE (resistant gloves, eye protection, etc.), containment boom, plastic sheets, heavy-duty trash bags, overpack drums, lidded buckets, kitty litter, spill pads, brooms and shovels. Spill-response kits will be located at each designated hazardous material storage area. A kit will also be near the fueling operation and easily accessed.

Security Measures: The designated areas for storage of hazardous materials are on the bed of the boom truck and inside covered job boxes on spill pallets in the Contractor Staging Area. Storage for hazardous materials from previous clean up will be inside labeled drums at the Contractor Staging Area, the floating crane or barge. These storage drums will have secondary containment (spill pallet).

The Contractor Staging Area, along with all the equipment, will be secured to protect against accidents/vandalisms that may result in a spill of material that threatens human health and the environment. Only authorized personnel will be permitted on-site.

Secondary Containment Practices and Structures for Hazardous Materials: Hazardous materials will be stored on the bed of the boom truck on spill pallets, and inside job boxes and labeled drums with spill pallets for secondary containment. Containers of hazardous materials will be completely closed when stored. These containers will be wiped down to remove any hazardous material spills on the external surface.

Methods to Prevent Storm Water from Contacting Hazardous Materials: Preventing storm water contact can be accomplished through the use of covered storage areas (job boxes), covered spill pallets, clean/undamaged containers, and clean/undamaged drums.

Site Inspection Procedures and Frequency: Daily site inspections will be conducted at the beginning and end of shift to ensure that spill controls are in place, are effective, and will remain effective.

Equipment and Structure Maintenance Practices: All flow and drain valves for all tanks holding hazardous materials (in equipment and storage) will be closed and secured when not in use/operation. Daily site inspections will be conducted at the beginning and end of shift to

ensure that spill controls are in place, are effective, and will remain effective. Damaged or leaking equipment and structures will be removed from the site and replaced. Hazardous materials no longer required on-site will be removed and stored elsewhere, or removed and disposed of properly. There are no equipment to be used that cannot be moved from below the high-water line.

SPILL RESPONSE

Detailed spill response procedures for each potential spill source and situation are as follows:

Table 2: Potential Spill Source 1 - Fueling/Oiling of Equipment at Test Pile Areas

Spill Type:	Diesel, gasoline, mixed gasoline fuel spill
Spill Response Equipment:	PPE (fuel-resistant gloves, eye protection), containment boom, spill pads, kitty litter, heavy-duty plastic trash bags, "non-sparking" shovels, broom and plastic sheeting.
Spill Response Equipment Location:	Located inside the floating crane/derrick, barge and tugboat.
Spill Response Procedure:	1) Stop all work operations immediately.
	2) Notify Contractor "person-in-charge" about the spill.
	3) Assess the spill hazard. If the spill cannot be safely and effectively controlled, direct safe evacuation of the area. Evacuate to the designated Contractor Staging Area. Implement the Emergency Action Plan (see Attachment "A") as appropriate.
	4) If the spill is incidental and can be safely and effectively controlled, then:
	4a) Secure the hazard area.
	4b) Obtain the appropriate spill response equipment, along with PPE.
	4c) Identify the source of the release. Determine the origin of the release.
	4d) Shut off source of spill: If spill is due to faulty equipment, shut off the equipment. If spill is as a result of fueling operation, turn off the fuel source.
	4e) Protect sensitive area in the immediate vicinity. Dam up or plug existing drain holes on the deck of the trestle structure. Deploy containment boom if spill entered the water.
	4f) Contain the spill using the appropriate items in the spill response kit provided. Use spill pads and /or lines of kitty litter.
	4g) Remove spill using the appropriate items in the spill response kit provided. Use spill pads, kitty litter (or both).

4h) Use gloved hands, shovels (or both) to put used or affected spill pads/kitty litter into 30-gallon plastic trash bags for containment or storage. Seal trash bags.

4i) Transfer sealed trash bags into labeled drums at the Contractor Storage Area for storage and future disposal.

4j) Contractor "person-in-charge" will notify the appropriate federal, state and local agencies of the spill incident.

Table 3: Potential Spill Source 2 - Fueling/Oiling of Equipment at Contractor Staging Area

Spill Type:	Diesel, gasoline, mixed gasoline fuel spill
Spill Response Equipment:	PPE (fuel-resistant gloves, eye protection), spill pads, kitty litter, heavy-duty plastic trash bags, "non-sparking" shovels, broom and plastic sheeting
Spill Response Equipment Location:	Located inside job trailers and/or connex. Located inside job boxes.
Spill Response Procedure:	1) Stop all work operations immediately.
	2) Notify Contractor "person-in-charge" about the spill.
	3) Assess the spill hazard. If the spill cannot be safely and effectively controlled, direct safe evacuation of the area. Evacuate to the designated Contractor Staging Area. Implement the Emergency Action Plan (see Attachment "A") as appropriate.
	4) If the spill is incidental and can be safely and effectively controlled, then:
	4a) Secure the hazard area.
	4b) Obtain the appropriate spill response equipment, along with PPE.
	4c) Identify the source of the release. Determine the origin of the release.
	4d) Shut off source of spill: If spill is due to faulty equipment, shut off the equipment. If spill is as a result of fueling operation, turn off the fuel source.
	4e) Protect sensitive area in the immediate vicinity. Dam up or plug existing catch basins.
	4f) Contain the spill using the appropriate items in the spill response kit provided. Use spill pads and /or lines of kitty litter.
	4g) Remove spill using the appropriate items in the spill response kit provided. Use spill pads, kitty litter (or both).
	4h) Use gloved hands, shovels (or both) to put used or affected spill pads/kitty litter into 30-gallon plastic trash bags for containment or storage. Seal trash bags.

4i) Transfer sealed trash bags into labeled drums for storage and future disposal.

4j) Contractor "person-in-charge" will notify the appropriate federal, state and local agencies of the spill incident.

Table 4: Potential Spill Source 3 - Storm Water In Contact with Hazardous Materials

Spill Type:	Diesel, gasoline, mixed gasoline fuel spill
Spill Response Equipment:	PPE (fuel-resistant gloves, eye protection), spill pads, heavy-duty plastic trash bags.
Spill Response Equipment Location:	Located in the floating crane, barge and tugboat. Also in the jobsite trailers, connex and job boxes at Contractor Staging Area.
Spill Response Procedure:	1) Stop all work operations immediately.
	2) Notify Contractor "person-in-charge" about the spill.
	4) Assess the spill hazard. Then:
	4a) Secure the hazard area.
	4b) Obtain the appropriate spill response equipment, along with PPE.
	4c) Identify the source of the release. Determine the origin of the release.
	4d) Shut off source of spill: If spill is due to faulty equipment, shut off the equipment. If spill is as a result of fueling operation, turn off the fuel source.
	4e) Protect sensitive area in the immediate vicinity.
	4f) Contain the spill using the appropriate items in the spill response kit provided. Use spill pads to keep affected storm water from escaping.
	4g) Remove spill using the appropriate items in the spill response kit provided. Use spill pads and completely wipe down hazardous material containers and areas in the immediate vicinity.
	4h) Use gloved hands, to put used or affected spill pads into 30-gallon plastic trash bags for containment or storage. Seal trash bags.
	4i) Transfer sealed trash bags into labeled drums for storage and future disposal.
	4j) Contractor "person-in-charge" will notify the appropriate federal, state and local agencies of the spill incident.

PROJECT SITE MAP

The map below (Figure 3) shows the following items:

- Site location and boundaries
- Site access roads
- Nearby waterways and sensitive areas
- Contractor heavy equipment
- Pre-existing contamination or contaminant sources (not applicable)

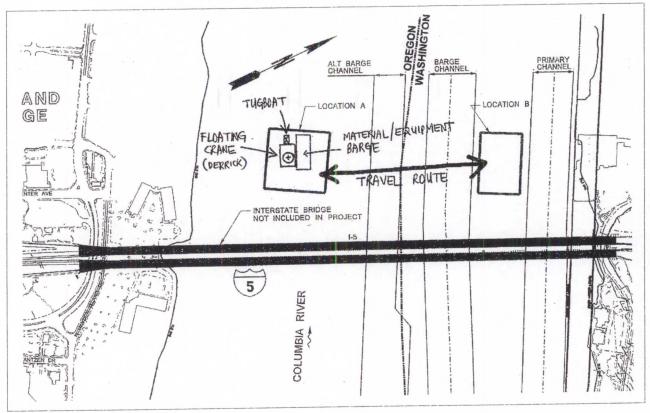


Figure 3: Project Site Map

SPILL REPORT FORMS

The Spill Report form to be used by the Contractor "person-in-charge" in the event of an on-site release or spill is enclosed. See Appendix "B" for a blank copy.

APPENDIX "A": EMERGENCY ACTION PLAN

Section 1: Site and General Project Information

Name of Project	I-5, Columbia River Bridge Temporary Pile Test Program (Contract #8078)	
Type of Project	This project provides for the improvement of I-5 Columbia River Bridge, MP OR 308.0 to WA 0.3, Columbia River Mile 106.5, Columbia River Bridge Vicinity Pile Driving, by installing piles, pile instrumentation, pile testing, removing piles, and installing noise attenuation system, and other work.	
Project Location	I-5, Columbia River Bridge (WA 0.3 to Oregon MP 308.0)	
WSDOT CRC Structures Engineer Manager	Name: Frank Green, P.E. Phone: (360) 816-8855 Cell: (360) 600-2632	
Primary Constractor	American Construction Company, Inc. 1501 Taylor Way Tacoma, WA 98421 Phone: (253) 254-0118	
Site Phone for Primary Contractor	Cell: (425) 870-3217	
Contractor primary "Person-in-Charge"	Name: Vernon Uy (Project Superintendent) Cell: (425) 870-3217	
Contractor alternate "Person-in-Charge"	Name: Kevin Culbert (Project Manager) Phone: (253) 254-0118 Cell: (425) 870-3211	

Section 2: Emergency Escape and Evacuation Information

Contractor "Person-in-Charge" Additional Duties	The responsibility of the "person-in-charge" is to account for all personnel after an evacuation. This person is responsible for keeping an accurate attendance list of all authorized personnel on-site, on a daily basis. This person is to verify that all personnel are accounted for after an evacuation.
	When the Contractor primary "person-in-charge" is absent from the jobsite, it is the responsibility of the named alternate to complete this task.
Designated Evacuation Meeting Place	In case of an emergency, all jobsite personnel will meet at the designated Contractor Staging Area.
Escape and Evacuation Procedures	The evacuation signal will be sounded on the 1st day on-site, and at any other times deemed necessary to ensure it works properly, and all personnel are aware of its purpose.
	The specific escape and evacuation procedure is to: Proceed from the work areas to the designated Contractor Staging Area.

Section 3: Reporting Fires and Other Emergencies

Contractor "Person-in-Charge"	The "person-in-charge" is also responsible for contacting the appropriate emergency response organizations in the case of any life threatening emergency.
Additional Duties	When the Contractor primary "person-in-charge" is absent from the jobsite, it is the responsibility of the named alternate to complete this task.

EMERGENCY CONTACT INFORMATION

Hospital	Name: Southwest Washington Medical Center 3400 Main Street, Vancouver, WA Phone: (360) 256-2000
Police Department	Name: Washington State Patrol Phone: 911
Fire Department	Name: City of Vancouver Phone: 911

APPENDIX "B": SPILL REPORT FORM

Instructions: Complete for any type of petroleum product or hazardous materials/waste spill or incident. Provide a copy of this report to management.

. WSDOT Personnel involved in Spill Reporting:
Project Office: Name, Title, and Phone Number:
Regional Environmental Office: Name, Title, and Phone Number:
2. Contractor Personnel Involved in Spill Reporting:
Name and Title of Person:
Phone Number:
. General Spill Information:
Common Name of Spilled Substance:
Quantity Spilled (Estimate):
Describe Concentration of Material (Estimate):
Date of Spill:/
Time Spill Started: AM PM Time Spill Ended: AM PM
. Spill Location and Conditions:
Project Title:
Street Address and/or Milepost, City:
Veather Conditions:
Spill to Water,
Name of Water Body (if ditch or culvert, identify the water body that the structure discharges to):
Identify the Discharge Point:
Estimate the Depth and Width of the Water Body:
Estimate Flow Rate (i.e. slow, moderate, or fast):
Describe Environmental Damage (i.e., fish kill?):
. Actions taken:
o Contain Spill or Impact of Incident:
o Cleanup Spill or Recover from Incident:
o Remove Cleanup Material:
o Document Disposal:
o Prevent Reoccurrence:

6. Reporting the Spill:

Spills to water: Immediately call the National Response Center (1-800-424-8802), Emergency Management (1-800-258-5990), and the appropriate Ecology Regional Office.	
Spills to soil that may be an immediate threat to health or the environment (i.e., explosive, flammable, toxic vapors, shallow groundwater, nearby creek, etc.): Call the appropriate Ecology Regional Office immediately. If not immediately threatening, but may be a threat to human healt or the environment, report to Ecology within 90 days.	h
Note: Project specific permits may have additional reporting requirements.	
 List agencies contacted. Include names, dates and phone info of people you spoke with 	
	_
Record ERTS #, if issued by Ecology:	_
7. Person Responsible for Managing Termination/Closure of Incident or Spill:	
Name and Phone:	
Address and Fax:	_

8. Additional Notes/Information (if necessary):