Decontamination Management Plan

# **INCIDENT NAME**

**DATE/TIME**

## SUBMITTED BY: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ EUL Initials: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## APPROVED BY:

|  |  |
| --- | --- |
| Name | Signature |
| RPIC: | X |
| FOSC: | X |
| SOSC: | X |
| LOSC: | X |

## 

**NO WASTE SHALL LEAVE DECONTAMINATION SITE UNTIL RELEASED BY CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-OFFICE OF SPILL PREVENTION AND RESPONSE**

**INTRODUCTION/OBJECTIVE**

This plan serves to identify general guidance procedures to be followed by vessels and personnel involved with oil spill response decontamination operations. This plan will be used for all personnel, vessels, boom and support equipment, either contaminated or suspected of being contaminated with oil. All equipment will undergo full decontamination to a non-oiled state prior to transfer to staging, re-deployment or demobilization.

Health and Safety

Overall incident and site-specific health and safety plans shall be prepared for the prevention of accidents, exposures, and illnesses for personnel performing work activities specific to this Decontamination Management Plan. All personnel shall conduct operations within the guidelines of these safety requirements and comply with all applicable OSHA standards and other related recommendations for employee health and safety.

See Safety Data Sheet (SDS) for chemical composition of product (Appendix 1).

**DECONTAMINATION METHODS**

A Job Safety Analysis (JSA), will be performed at the beginning of each work shift.

Personnel decontamination areas typically will have large wading pools or other portable containers for cleaning personnel. A temporary storage tank of sufficient volume will be stored on site to store liquids involved in the decontamination process. The cleaning pools will be set up within secondary containment to capture any spilled material. Material will be transferred from the cleaning pool to the temporary storage tank via transfer pump/hose system or vacuum truck as needed.

Personnel working within the decontamination areas will wear Level D Personnel Protective Equipment (PPE) including hard hats, raingear, rubber boots, gloves and eye protection.

Personnel decontamination areas will be located as indicated in Figure 1 and designed as indicated in Figure 2.

#### Figure 1

#### Insert Site-Specific Personnel Decontamination Area Locations

#### Figure 2

#### Insert Decontamination Area Schematics and Photographs

**Figure 3**

**Insert Schematic of Equipment Decontamination Area**

**PORTABLE EQUIPMENT DECONTAMINATION AREAS**

JSA will be performed at the beginning of each shift.

Portable decontamination equipment will be located at equipment decontamination area­­­­­

# 1 located at the \_\_\_\_\_\_ Staging Area.

Decontamination systems for booms, skimmers, hand tools, and portable machinery will be established by the Decontamination Group under Operations. The use of steam cleaners, cleaning solution and hot water wash, as appropriate, will be used to decontaminate equipment.

The portable equipment decontamination area will have a large pool or other diked impoundment for cleaning equipment and a temporary storage tank for storage of liquids. The cleaning pool or dike area will be lined with secondary containment to capture any spilled material and may be lined with pallets or other methodology to elevate the equipment above the containment floor. The appropriate cleaning methodology will be repeated until all visible contamination is removed.

Consumable equipment components considered expendable (e.g., brushes, sorbents, rags, tarps, etc.) will not be decontaminated but will be containerized as waste. Decontaminated equipment will be inventoried, and this information will be forwarded to the Resource Unit Leader and the Staging Area Manager for final disposition or re-deployment. (see Appendix 2)

Personnel involved in this operation will wear Level D PPE including hard hats, raingear, rubber boots, gloves and eye protection. Follow all standard operating procedures (SOP) guidelines for all Confined Space Entry and Rescue operations (see Appendix 3).

**ON-WATER DECONTAMINATION**

JSA will be performed at the beginning of each shift.

The Unified Command shall approve the on-water decontamination of response and other vessels, barges or watercraft. On-water decontamination of large vessels shall be conducted at berth or other locations as needed within a boomed in area.

Decontamination is to occur on-site, if possible, or at a suitable berthing location. Each vessel will be placed inside standard contractor containment boom secured with a sufficient anchoring system to prevent collapse of the boom perimeter during tidal surge or influx. Once the vessel is secured within the boom, crews will proceed to either spray, wash or wipe down the vessel to remove product. A pumping system will retrieve the sheen or product from the area and transfer it to a suitable collection container (e.g. barge, vacuum trailer or “frac” tank). If the initial vessel decontamination is completed and a sheen is observed upon the vessel egress from the decontamination area, secondary decontamination should be recommended and implemented.

LARGE VESSEL DECONTAMINATION

Gross decontamination will take place on-water at \_\_\_\_\_\_\_\_\_\_\_\_\_\_. This is a location away from environmentally and economically sensitive areas, but in the vicinity of the contaminated work zone. Each vessel will be placed inside standard contractor containment boom during the decontamination process. If required, this decontamination area may utilize a boom anchoring system to prevent the collapse of the perimeter protection during tidal changes or surges. This location shall be approved by the Unified Command as it moves from site to site.

Gross decontamination consists of high-pressure water blasting of the contaminated water line to allow the vessel to transit to the final decontamination site. This is accomplished by a fire monitor or high-pressure pump/hose system from an adjacent vessel.

Decontaminated equipment will be inventoried, and this information will be forwarded to the Resource Unit Leader and the Staging Area Manager for final disposition or re-deployment.

Personnel involved in this operation will wear Level D PPE including hard hats, raingear, rubber boots, gloves, flotation work vest and eye protection.

Follow all SOP guidelines for all Confined Space Entry and Rescue operations.

(see Appendix 3)

**SMALL VESSEL DECONTAMINATION**

Small vessel decontamination will be completed via use of dry-dock crane arrangement, as feasible. Small vessels will be lifted from the water and placed in boomed areas of the dry-dock. The small vessels will be washed down and the contaminated water will be collected from within the boomed area. Areas where boats are lifted will be boomed and monitored to prevent the spread of any sheen. All sheen/product from vessel decontamination will be collected via absorbent pad/boom or a pump may be used to transfer to a temporary storage tank, or barge for quantification, reclamation and proper disposal per the Waste Management and Disposal Plan.

Final decontamination will also take place at \_\_\_\_\_\_\_\_\_\_\_. A decontamination work plan will be created for each large vessel (typically OSRVs) containing storage tanks. Cleaning of these on-board storage tanks may require health and safety procedures related to Confined Space Entry or Confined Space Rescue. Large Vessel Decontamination Work Plans will address logistics, methodology, health and safety and waste management. These plans may be added as appendices to this document or utilized as a stand-alone document.

Decontaminated equipment will be inventoried, the inventory list will be forwarded to the Resource Unit Leader and the Staging Area Manager for final disposition or re-deployment (see Appendix 2).

Personnel involved in this operation will wear Level D PPE including hard hats, raingear, rubber boots, gloves, flotation work vest and eye protection.

Follow all SOP guidelines for all Confined Space Entry and Rescue operations (see Appendix 3).

**NON-PORTABLE EQUIPMENT DECONTAMINATION**

The utilization of approved cleaning products and high-pressure water wash will be the primary methods to decontaminate non-portable equipment.

The equipment decontamination area will have a large pool for cleaning equipment and a temporary storage tank will be used for the collection of all recovered liquids. The cleaning pool will be lined with secondary containment to capture any run-off material created during the cleaning process.

Equipment that cannot safely be moved will be decontaminated on-site using an approved cleansing solution and high-pressure water rinse; this process will be repeated until visible contamination is removed. Areas used for cleaning will be bermed and lined to prevent additional contamination. The resulting water will be collected and disposed of per the Waste Management and Disposal Plan.

Consumable equipment components considered expendable (e.g., brushes, sorbents, rags, tarps, etc.) will not be decontaminated but will be containerized as waste. Decontaminated equipment will be inventoried, and this information will be forwarded to the Resource Unit Leader or the Staging Area Manager for final disposition or re-deployment (see Appendix 2).

**WASTE MANAGEMENT**

All liquid wastes generated from decontamination operations will be transferred to drums, vacuum trucks or temporary storage tanks used for containment of recovered oil and water. All solid wastes generated from decontamination operations will be collected and containerized in drums, cubic yard boxes or roll-off bins, as applicable. All containers will be properly labeled according to local, state and federal regulations. All wastes generated from decontamination operations shall be segregated and managed according to procedures identified in the approvedWaste Management and Disposal Plan.

A personnel decontamination station will be required at all locations where personnel transit from the contaminated zone into the support zone. Personnel must use the decontamination station anytime they transit the area. This includes lunch breaks, restroom breaks, smoke breaks, etc. Upon entry, personnel are expected to remove dirty PPE, i.e. Tyvek, over booties, gloves and place these items into a 55-gallon drum accordingly. After removal of the outer PPE, the personnel are to move forward through the wet decontamination solution using scrub brushes as needed. From the wet decontamination pool, personnel are then to transit through the clean rinse then exit the personnel decontamination area.

Typical Disposable Containment Pool

The bottom layer of a disposable containment pool is typically made up of a universal industrial sorbent sheeting approximately 0.25” thick. This material performs in two ways. This material is an excellent pad to absorb shock and impact and acts as a defense barrier to absorb any leaching material to minimize asphalt exposure.

Above the sorbent layer is a dense minimum 20mil reinforced polypropylene sheeting. This layer is the primary moisture barrier and containment for the purpose of protecting the solid surface beneath, (see Appendix 4).

If available, the use of a 100’X20’ Decontamination Containment Pool should be utilized as appropriate.

**Insert diagram of containment pool as needed**

APPENDIX 1

Insert Safety Data Sheet(s) here as needed

APPENDIX 2 (see example below)

Insert decontaminated equipment inventory list

APPENDIX 3

Insert Confined Space and Rescue SOPs as needed

APPENDIX 4

Insert decontamination layouts diagram as needed

**Appendix 2: Equipment Decontamination Release Form**

**Incident Name:**

**Company:**

**Contact Person:**

**Phone Number:**

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| --- | --- | --- | --- | --- | --- | --- |
| **Item** | **Quantity** | **Unit** | **Location** | **Date Started** | **Date Released** | |
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Released from decontamination by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equipment has no visible damage: Yes or No

Notes: