DELTA WESTERN, LLC
KETCHIKAN BULK FACILITY

OIL DISCHARGE PREVENTION AND CONTINGENCY PLAN (CPLAN)

RESPONSE SCENARIO

required by:
18 AAC 75.449(a)(6)

Last Revised: Not Applicable (Original Issuance, 5-Year Renewal)

Table of Contents

The table of contents provides a structured guide for navigating this document. Certain tables, figures, forms, and other embedded elements are assigned page numbers. While in most cases these page numbers appear on the pages, some do not.

Cross-Reference Table

While this response scenario is presented in the order shown in 18 AAC 75.449(a)(6), the following cross reference tables are provided to direct the reader to the appropriate information.

18 AAC 75.449(a)

Citation	Description	Response Scenario Section	Gasoline Scenario Section	Diesel Scenario Section	CPLAN Section
(a)(6)	Response scenario	1	--	--	--
(a)(6)(A)	Response scenario details	1.1	--	--	--
(a)(6)(B)	Timeline and response action description	1.2	ICS-201, ICS-204, ICS-204a (TF-1 thru TF-8)	ICS-201, ICS-204, ICS-204a (TF-1 thru TF-9)	--
(a)(6)(C)	Procedures to stop the discharge	1.3	--	--	1.1
(a)(6)(D)	Methods to prevent a fire hazard	1.4	--	--	1.7
(a)(6)(E)	Surveillance and tracking	1.5	ICS-204a (TF-5)	ICS-204a (TF-6)	--
(a)(6)(F)	Protecting environmentally sensitive areas and areas of public concern	1.6	ICS-204a (TF-3), ICS-232	ICS-204a (TF-3), ICS-232	1.6, 3.9
(a)(6)(G)	Containing/controlling spills	1.7	--	ICS-204 (TF-1)	1.1
(a)(6)(H)	Recovering contained/controlled oil	1.7	ICS-201 (Page 4), ICS-204a (TF-4)	ICS-201 (Page 4), ICS-204a (TF-2, TF-4, TF-5)	--
(a)(6)(I)	Lightering, transferring, and storage of oil	1.8	ICS-204a (TF-8)	ICS-204a (TF-9)	--

Citation	Description	Response Scenario Section	Gasoline Scenario Section	Diesel Scenario Section	CPLAN Section
(a)(6)(J)	Recovered oil and oily water	1.9	ICS-204a (TF-8), Table 2-2	ICS-204a (TF-9), Table 2-4	--
(a)(6)(K)	Temporary storage and ultimate disposal	1.10	ICS-204a (TF-4, TF-8)	ICS-204a (TF-2, TF-4, TF-5, TF-9)	--
(a)(6)(L)	Decanting	1.11	--	--	--
(a)(6)(M)	Protecting potentially affected wildlife	1.12	ICS-204a (TF-7), ICS-232	ICS-204a (TF-8), ICS-232	3.7
(a)(6)(N)	Shoreline cleanup	1.13	ICS-204a (TF-6)	ICS-204a (TF-7)	--
(a)(6)(O)	Additional response strategies	Not Applicable			

Supporting Documents

Citation	Description	Plan Section
--	Response scenario presented on ICS forms and oil recovery and temporary storage tables	2, 2.1, 2.2
--	Gasoline Scenario	2.1
--	Diesel Scenario	2.2
--	Spill Trajectory Model Development and Background	3.4

1 Response Scenario Introduction

18 AAC 75.449(a)(6)

As allowed by 18 AAC 75.449(a)(6), Delta Western, LLC (DW) has prepared this stand-alone response scenario as a document separate from the Oil Discharge Prevention and Contingency Plan (CPLAN). This document is incorporated by reference in Section 1.6 of the Delta Western, LLC Ketchikan Bulk Facility CPLAN.

This scenario was prepared to be a written description of a hypothetical spill and response that demonstrates DW's ability, using the resources described in the above-reference CPLAN, to respond to a discharge of each applicable response planning standard volume within the required time frames under 18 AAC 75.430 – 18 AAC 75.442 and under environmental conditions that might reasonably be expected to occur at the discharge site.

The response scenario is written to be useable as a general guide for a discharge of any size, and describes the discharge containment, control, recovery, transfer, storage, and cleanup actions that may be taken, and clearly demonstrates the strategies and procedures that may be used to conduct and maintain an effective response, consistent with ensuring the safety of personnel.

This document references the Spill Tactics for Alaska Responders (STAR) Manual[1] as it relates to how DW may comply with the various sections of 18 AAC 75.449(a); additionally, DW may implement or reference locally relevant Geographic Response Strategies (GRSs). The intent of inclusion of this content is to provide responders with access to relevant information that they can utilize when developing their planned approach. Not all elements of tactics and strategies included are intended to be employed in every case. The actual means of response will be based on the individual drill, exercise or incident.

1.1 Response Scenario Details

18 AAC 75.449(a)(6)(A)

Location	Ketchikan Bulk Facility
Time of Year	Fall
Time of Day	0600 Alaska Daylight Time

[1] The citation for the STAR Manual, and a link to access it, is included in Section 3.3.

Source	Tank T-01
Cause of Spill	A large earthquake causes Tank T-01 to experience a catastrophic failure of the upper shell. The secondary containment area wall also fails and the entire tank contents[2] are released.
Quantity of Oil Spilled[3]	Adjusted Response Planning Standard (RPS): 399,760 gallons Estimated Percentage of RPS to Reach Open Water: 90 % Estimated Volume of RPS to Reach Open Water: 359,784 gallons
Type of Oil Spilled	Gasoline; Diesel
Spill Trajectory	For these scenarios, assuming an average current of 1 knot and a maximum 10 knot southeast wind, product is projected to move at approximately 1.5 miles per hour (mph) (7,920 feet per hour). This estimate is derived by adding three percent of the wind speed to the current. Based on a rate of movement of about 1.5 mph (until the tides change), a constantly incoming tide, and that no containment or control actions had occurred, one could reasonably expect the release would be just east of Mudd Bay after two hours. After four hours, the release would have moved northwest and spread out of the Tongass Narrows past Mudd Bay on the north side of the Narrows. From there it would swirl and eddy in the area, impacting surrounding areas. When the tides change, the current velocity would be working against the wind, decreasing the rate of oil spread, and actually causing it to reverse direction at times. Trajectories were also analyzed based on a maximum 10 knot northwest wind. Affected Task Forces are provided with additional information to address the second predominant wind directions.
Weather	Temperature: 52 °F Wind: 10 knots southeast; alternatively, winds may be 10 knots northwest Other: Overcast

[2] The tank contents vary by scenario; two scenarios, one gasoline, one diesel, are provided in Sections 2.1 and 2.2 of this document.
[3] The information in this section is based on the information provided in Section 5 of the Delta Western, LLC Ketchikan Bulk Facility CPLAN.

Sea State	Light chop to 2 feet
Visibility	10 miles
Operational Period Duration and Timing	24 hours 1: 10-15, 0600 to 10-16, 0600 [hours 0 to 24] 2: 10-16, 0600 to 10-17, 0600 [hours 24 to 48] 3: 10-17, 0600 to 10-18, 0600 [hours 48 to 72]

1.2 Timeline and Response Action Description

18 AAC 75.449(a)(6)(B)

The anticipated timeline and response actions are presented throughout the ICS-201, ICS-204, and ICS-204a forms[4].

1.3 Procedures to Stop the Discharge

18 AAC 75.449(a)(6)(C)

DW personnel are trained to follow the initial control and containment steps. These steps include the following, as applicable:

- Stop the flow at the source
- Transfer product out of damaged tank, vessel, and/or piping
- Assess and implement prompt removal actions to contain and remove the spill substance
- Deploy containment boom and response equipment, as needed
- Construct a containment berm
- Divert discharged oil to a collection area

Additional details can be found in Section 1.1 of the Delta Western, LLC Ketchikan Bulk Facility CPLAN.

[4] All ICS forms referenced throughout this document can be found in Section 2.1 for the gasoline scenario and Section 2.2 for the diesel scenario.

1.4 Methods to Prevent a Fire Hazard

18 AAC 75.449(a)(6)(D)

The following actions may be taken to prevent or control a potential fire hazard[5]:

- Warn persons in the immediate area, activate internal alarms, and call 911
- Eliminate sources of ignition, if safe to do so
- Extinguish flames, if safe to do so
- Shut-off the main electrical power supply

The facility has two emergency stops, one located near the TTLR and the other located at the southwest corner of the operations building. See Section 1.7 of the Delta Western, LLC Ketchikan Bulk Facility CPLAN for facility diagrams.

1.5 Surveillance and Tracking

18 AAC 75.449(a)(6)(E)

DW has identified the following procedures/methods that may be used to track discharged oil on land or open water and forecast its expected points of shoreline contact as follows:

- Tide tables
- Projected trajectories utilizing spill modeling software[6]
- National Weather Service support staff[7]
- Visual surveillance[8]
    - Via land (primary on foot, but may be supported by vehicles, if needed)
    - Via air (utilizing aircraft [planes or helicopters] or drones)
    - Via sea (by vessel)

Additionally, the following STAR Manual tactics may be implemented or referenced:

[5] DW personnel are not trained or qualified to fight a fire of any significance (i.e., beyond that which can be extinguished with a 20 lb. fire extinguisher). Any actions beyond those described herein will require trained firefighting personnel, which will be mobilized by calling 911.

[6] Projected trajectories for the response scenarios provided in Sections 2.1 and 2.1 are found on the corresponding ICS-204a forms for the aerial surveillance task forces. The spill trajectory maps in for the response scenarios were developed utilizing the National Oceanic and Atmospheric Administration's (NOAA's) WebGNOME system. Additional information regarding how these spill trajectory maps were generated is provided in Section 3.4. During a real spill response, model input parameters can be set to current conditions, updated, and adjusted, as needed to predict potential product movement.

[7] The National Weather Service is a resource for weather forecasting and trajectory projections.

[8] Visual surveillance via air is anticipated to be reserved only for large incidents that involve the standup of an Incident Management Team (IMT)/Spill Management Team (SMT) with a Unified Command.

- Plume delineation, land – B-II-1
- Discharge tracking on water – B-II-2
- Aerial observations supporting nearshore operations – B-II-3

1.6 Protecting Environmental and Areas of Public Concern

18 AAC 75.449(a)(6)(F)

Environmentally sensitive areas (ESAs) and areas of public concern are identified in Delta Western, LLC's Ketchikan Bulk Facility CPLAN (Section 3.9); the specific areas to be protected for this hypothetical spill scenario are presented on the ICS-232 and ICS-204a (TF-3) forms. As the facility is located adjacent to a defined GRS site, strategies outlined in the narrative sections of the ICS-232 forms and the ICS-204a Task Force replicate guidelines strategies of the GRS for use. Additionally, as discussed in Section 1.6 of Delta Western, LLC's Ketchikan Bulk Facility CPLAN, in the event of a spill impacted lands owned/managed by the Alaska Department of Natural Resources (ADNR), notification, consultation, and coordination with ADNR is required.

DW has identified the following tactics that may be used to protect ESAs and areas of public concern:

- Stop the flow at the source
- Assess and implement prompt removal actions to mitigate the spread
- Deploy containment boom and response equipment at the source, as needed
- Deploy exclusion or deflection boom
- Engage with staff from wildlife trustee agencies
- Initiate passive wildlife protection

Additionally, the following STAR Manual tactics may be implemented or referenced:

- Exclusion boom – B-III-12
- Deflection boom – B-III-13
- Beach berms and exclusion dams – B-III-14
- Cold water deluge – B-III-15

Relevant GRSs may also be implemented or referenced.

1.7 Spill Containment and Control

18 AAC 75.449(a)(6)(G), 183 AAC 75.449(a)(6)(H)

Containment and control strategies that may be utilized can be found on the corresponding ICS-204a forms included in Sections 2.1 (ICS-204a for TF-4) and 2.2 (ICS-204a for TF-2, TF-4, and TF-5).

Additionally, the following STAR Manual tactics may be implemented or referenced:

- Booming basics – B-III-1
- Containment boom – B-III-2
- Dikes, berms, and dams – B-III-3
- Pits, trenches, and slots – B-III-4
- Nearshore free-oil recovery – B-III-5
- On-water free-oil recovery – B-III-6
- On-land recovery – B-III-7
- Diversion boom – B-III-8
- Marine recovery – B-III-9
- Shoreside recovery – B-III-10
- Passive recovery – B-III-11

Relevant GRSs may also be implemented or referenced.

1.8 Lightering, Transfer, and Storage of Oil

18 AAC 75.449(a)(6)(I)

The following lightering, transfer, and storage procedures have been identified for use in the event DW has to transfer all oil from damaged tank(s), and from undamaged tanks that might be at risk of discharging oil, in the shortest possible time. The most likely scenario would be a tank-to-tank transfer followed by a tank-to-barge transfer. As the latter is only possible in certain circumstances, this section focuses on the procedures of tank-to-tank transfers.

The identified lightering, transfer, and storage procedures are as follows:

- Assess the damaged tank(s) and all associated piping, and valves; isolate the tank(s) and validate other equipment for suitability of transfer operations
- Align existing piping and valves to allow for transferring oil from the affected tank(s) to the receiving tank(s), if available
- Gauge the receiving tank(s) to ensure sufficient ullage
- Test the overfill alarm(s) on the receiving tank(s)

- Initiate transfer operations

If there is no existing piping and valves that allow for transferring oil directly from the affected tank(s) to the receiving tank(s), DW can utilize a portable transfer pump with fuel hoses to transfer product through the water draws on the affected tank(s).

Lightering, transfer, and storage procedures that may be utilized can be found on the corresponding ICS-204a forms included in Section 2 (Section 2.1, ICS-204a TF-8; Section 2.2, ICS-204a TF-9). In both scenarios lightering and transfer operations are expected to be initiated within the first operational period as demonstrated below:

- Gasoline Scenario: All required equipment for Task Force 8 (Section 2.1, ICS-201 Page 4) will be onsite by 10-15, 10:30[9].
- Diesel Scenario: All required equipment for Task Force 9 (Section 2.2, ICS-201 Page 4) will be onsite by 10-15, 10:00

Additionally, the following STAR Manual tactics may be implemented or referenced:

- Marine-based storage and transfer of oily liquids – B-III-16
- Land-based storage and transfer of oily liquids – B-III-17
- Pumping oily liquids – B-III-18

In the unlikely event that insufficient storage capacity is available in onsite tankage, temporary storage may be utilized. Temporary storage options are shown on Page 4 of the ICS-201 forms included in Section 2.1 and 2.2 as well as on the Temporary Storage Tables found in each of these sections.

1.9 Recovered Oil and Oily Water

18 AAC 75.449(a)(6)(J)

The procedures for transfer and storage of recovered oil and oily water described herein were developed to demonstrate that DW has adequate temporary storage and removal capacity to keep up with skimming and recovery operations[10]. The procedures that may be utilized can be found in Section 8 of the corresponding ICS-204a forms (Section 2.1, TF-8 ICS-204a and Section 2.2, TF-9 ICS-204a).

[9] While all required equipment for lightering and transfers will be onsite by 10-15, 10:30, safety will take priority, especially in the case of a gasoline release in which case additional precautions will be taken to ensure all equipment being used is intrinsically safe and non-sparking to prevent a fire or explosive hazard.
[10] Tables 2-1, 2-2, 2-3, and 2-4 present the estimated oil recovery and temporary storage for this hypothetical spill scenario.

All equipment to be utilized (pumps, hoses, fittings, drums, totes, tank trucks, tankage, etc.) is compatible with the oil being transferred and stored. Portable containers and/or tank trucks will be the primary method of transporting oil and oily water from the spill site to a more secure location.

Additionally, the following STAR Manual tactics may be implemented or referenced:

- Marine-based storage and transfer of oily liquids – B-III-16
- Land-based storage and transfer of oily liquids – B-III-17
- Pumping oily liquids – B-III-18

Volumes of recovered oil and oily water will be calculated consistent with STAR Manual Appendix C or by other means agreed upon by DW and the Alaska Department of Environmental Conservation (ADEC).

With respect to these scenarios, the volume of oil recovered during each operational period by piece of equipment is presented on the Oil Recovery Table contained at the end of Sections 2.1 (Table 2-2) and 2.2 (Table 2-4).

These values were calculated as follows:

Quantity of Equipment x EDRC converted to gal/hr[11] x Hours Operating = Oil Recovered

An example is shown below for reference.

Diesel Scenario (Section 2.2) – Oil Recovery Table – Spill to Water

Operational Period 1, Task Force 2 has 4 Aquaguard RBS Triton 35 Skimmers operating. Each skimmer has an EDRC of 47,796 gallons per day (or 1,991.5 gallons/hour) and operate for eight (8) hours during the first operational period.

4 skimmers x 1,991.5 gallons/hour x 8 hours = 63,728 gallons of oil recovered

As demonstrated by the Oil Recovery Tables in Sections 2.1 and 2.2 (Tables 2-2 and 2-4, respectively), DW has calculated the projected recovery volume and confirmed that all oil can be recovered by the end of the third operational period (i.e., 72 hours). Temporary storage for these liquids is covered in the following section.

[11] Note: the EDRC presented on the Oil Recovery tables is presented in gallons per day, thus this value was divided by 24 hours in order to obtain gallons per day.

1.10 Temporary Storage and Ultimate Disposal

18 AAC 75.449(a)(6)(K)

The procedures and locations for temporary storage and ultimate disposal of oil-contaminated materials, oily wastes, and sanitary and solid waste described herein were developed to demonstrate that DW has adequate temporary storage and removal capacity to keep up with recovery operations. The procedures and locations that may be utilized can be found on the corresponding ICS-204a forms (TF-4 and TF-8 for the gasoline scenario [Section 2.1] and TF-2, TF-4, TF-5, and TF-9 for the diesel scenario [Section 2.2]).

All temporary storage to be utilized (drums, totes, tank trucks, tankage, etc.) are compatible with the oil being transferred and stored.

Additionally, the following STAR Manual tactics may be implemented or referenced:

- Marine-based storage and transfer of oily liquids – B-III-16
- Land-based storage and transfer of oily liquids – B-III-17
- Pumping oily liquids – B-III-18

DW has developed a Waste Management Plan (WMP) template for quick implementation in the event of a release that requires a formal WMP to be written. The WMP template defines anticipated waste streams, labelling, required permits and authorizations, and disposal options[12]. A generalized version of this is provided below.

DW will recycle or dispose of all spill-related wastes generated in an environmentally sound and timely manner. An incident-specific WMP may be written at the request of the Incident Commander / Unified Command and is intended to be incident specific while addressing the following items[13].

[12] Due to the sensitive and confidential nature of this internal document, it is not included in this plan, however, it may be provided to ADEC upon request so long as the confidentiality of the document is ensured and it is not available for public disclosure.
[13] A WMP is not anticipated to be developed for spills that do not require a full IMT/SMT activation.

Storage / Segregation	Contaminated waste shall be separated by waste stream type and location where the waste was recovered. Any material that is generated or recovered that may be categorized as hazardous waste, hazardous material, hazardous substance, radioactive, biohazard, or other regulated material shall be handled accordingly pursuant to applicable state, federal, and local laws and regulations. Typical categories of waste include liquids, solids, wildlife, and municipal wastes.
Storage containers	Containers shall be labeled as to the type of segregated contents, accumulation date(s), and location where the waste was collected.
Temporary storage sites	Identification of appropriate sites (level, contained, and secure).
Reporting & permits	Contact appropriate federal, state, and local agencies having waste management oversight to ensure compliance.
Quantification	Define methodology for calculating amount of recovered product with applicable regulatory agency partner(s).
Characterization	Prior to waste transportation and disposal, the waste streams must be characterized in accordance with federal, state, and local laws and regulations
Transportation	Wastes are only to be transported by permitted, licensed, qualified, and approved transportation companies.
Disposal	Obtain waste manifests or other shipping documents as proof of disposal.

While final disposal sites will be determined based on waste characterization, transportation constraints, and availability, typical vendors for waste generated from the Ketchikan Bulk Facility include but are not limited to:

- Full Cycle
- Waste Management
- Republic Services

A Job Aid specific to waste management and disposal is also available through ADEC's Spill Response Permits and Tools Page; a link to this page is provided in Section 3.2.

1.11 Decanting

18 AAC 75.449(a)(6)(L)

Under the hypothetical spill scenario described herein, DW does not anticipate, nor rely on, decanting to meet temporary oil storage requirements. Additionally, DW anticipates relying primarily on mechanical recovery to cleanup oil spills. In the event decanting becomes necessary, DW will apply to the State On Scene Coordinator for approval.
A decanting guidance document, decanting permit application, and decant log are available through ADEC's Spill Response Permits and Tools Page; a link to this page is provided in Section 3.2.

1.12 Protecting Potentially Affected Wildlife

18 AAC 75.449(a)(6)(M)

The procedures, methods, and equipment that would be used for the protection, recovery, disposal, rehabilitation, and release of potentially affected wildlife described herein were developed to demonstrate that DW's proposed response action follow best practices and recommendations in the Alaska Regional Response Team *Wildlife Protection Guidelines for Oil Spill Response in Alaska*, Version 2020.01, dated August 31, 2020. The procedures, methods, and equipment that may be utilized can be found on the corresponding ICS-204a form. Additionally, potential wildlife resources at risk are identified on the ICS-232 form.

Additional resources specific to wildlife, fish, and their habitats are also available through ADEC's Spill Response Permits and Tools Page under the heading "WILDLIFE, FISH, AND THEIR HABITATS"; a link to this page is provided in Section 3.2. Additionally, NOAA's Pinniped and Cetacean Oil Spill Response Guidelines and the Arctic Marine Mammal Disaster Response Guidelines provide guidance on dealing with marine mammals during spill response (Ziccardi, et. al., 2015 and National Marine Fisheries Service [NMFS], 2017).

Preventative methods will be prioritized to first eliminate potential impacts to wildlife. If required, wildlife response actions would be coordinated through DW's Oil Spill Response Organization (OSRO)/Primary Response Action Contractor (PRAC), and the contracted resources they have in place[14], in consultation with wildlife resource agencies. Under these circumstances, means to minimize negative impacts to wildlife, may include:

- Keeping spilled oil away from wildlife and their habitats

[14] Additional information on DW's OSRO/PRAC contracted resources can be found in the Delta Western, LLC Ketchikan Bulk Facility CPLAN (Section 3.7).

- Preventing unnecessary or illegal disturbance to sensitive species and habitats[15]
- Preventing illegal collection of wildlife parts by spill response personnel[16]
- Preventing wildlife from coming into contact with cleaning agents and/or bioremediation substances used for shoreline treatment through hazing

The following outlines the scope of the wildlife resource agencies oversight and permitting authorities:

NOAA NMFS	Provides oversight and permitting/authorizations for carcass collection, deterrence, and capture of marine mammals under their jurisdiction (NMFS, 2017).
United States Fish & Wildlife Service	Provides oversight for any actions that are taken with regards to sea otters, eagles, and migratory birds.
Alaska Department of Fish & Game	Provides oversight and permitting for hazing of migratory birds, and for carcass collection, hazing, and capture and rehabilitation of terrestrial animals.

Federal and state laws and regulations limit the activities of DW personnel with respect to the handling of migratory birds, marine mammals, and other wildlife. Under these laws and regulations, it is illegal for anyone to take or handle marine wildlife except personnel from the responsible government entities or individuals authorized to take or handle marine wildlife by the proper authorities. Carcass disposal will not occur without coordination with wildlife resource agencies. Incident-specific protocols for the disposal of dead, oiled wildlife will be developed by the Environmental Unit with input from the wildlife resource agencies.

1.13 Shoreline Cleanup Procedures

18 AAC 75.449(a)(6)(N)

The procedures and locations for the deployment of shoreline cleanup equipment and personnel, including cleanup and restoration methods and techniques are described herein. These procedures and locations center around initial shoreline assessments conducted by

[15] These could include, but are not limited to nesting raptors, seabird rookeries, and marine mammal haul out and pupping areas.
[16] The Bald and Golden Eagle Protection Act and the Marine Mammal Protection Act prohibit collection and possession of animal parts (including feathers from Bald Eagles).

a Shoreline Cleanup Assessment Technique (SCAT) Team[17] that is deployed to assess the impact of oil on shorelines and develop an incident-specific shoreline cleanup plan. All SCAT Team members must be trained to ensure proper implementation of cleanup tactics and equipment usage.

Once the incident-specific shoreline cleanup plan is approved, shoreline cleanup response and logistical support would be mobilized, and plan implementation initiated. The procedures and locations that may be utilized can be found on the corresponding ICS-204a form[18].

Additionally, the following STAR Manual tactics may be implemented or referenced:

- Beach berms and exclusion dams – B-III-14
- Cold water deluge – B-III-15

[17] SCAT Teams typically consist of personnel from a variety of entities including state and federal agencies, the responsible party, and landowners. Composition of SCAT Team may vary by location.
[18] A SCAT Team and incident-specific shoreline cleanup plan are typically reserved only for large incidents that involve the standup of an IMT/SMT with a Unified Command.

2 Response Scenario - ICS Forms and Oil Recovery & Temporary Storage Tables

This section depicts the hypothetical spill scenarios laid out in Section 1.1 on ICS forms. ICS forms are utilized to be a useable format for responders and highlight specific tactics as well as operational needs (personnel and equipment). It should be noted that these ICS forms focus on response actions anticipated to be taken by DW with support from their OSRO/PRAC utilizing equipment owned/operated by DW and/or their OSRO/PRAC. It should be noted here that these forms do not rely on, nor utilize, any equipment or personnel that would be available from the state or federal agencies during an actual response.

Additionally, this section contains the oil recovery calculations and temporary storage needs to demonstrate that DW can, using the resources described in the above-reference CPLAN, to respond to a discharge of each applicable response planning standard volume within the required time frames under 18 AAC 75.430 – 18 AAC 75.442 and under environmental conditions that might reasonably be expected to occur at the discharge site.

These scenarios assume the following overall objectives and strategies:

Safety Actions	Ensure safety of all responders and the public
Source Control	Secure the release as soon as possible and as close to the source as possible; mitigating spread
Contain, Control, and Recovery of Oil	Maximize mechanical containment, control, and recovery of oil; minimize impacts to shorelines and wildlife; obtain all necessary permits; prepare and implement cleanup on-land and on-water; minimize the generation of waste; ensure effective waste management
Protection of ESAs and Areas of Public Concern	Identify and protect ESAs and areas of public concern; protect wildlife resources; following the *Wildlife Protection Guidelines for Oil Spill Response in Alaska*; consult with wildlife resource agencies; obtain all necessary permits
Public Outreach	Communicate spill response information to the public, as appropriate; develop a process to receive public input; engage with stakeholders; establish and maintain a claims process

As described earlier, this document provides two scenarios, one gasoline, one diesel. The gasoline scenario is presented in Section 2.1 followed by the diesel scenario in Section 2.2.

2.1 Gasoline Scenario

The gasoline scenario is presented on the pages that follow and is comprised of the following elements:

- Response Planning Standard[19]
- ICS-201 Incident Briefing Form
- ICS-204 and ICS-204a Assignment List and Assignment List A Attachments
- ICS-232 Resources at Risk
- Oil Recovery & Temporary Storage Tables

[19] Reiteration of the information provided in Section 5 of the Delta Western, LLC Ketchikan Bulk Facility CPLAN. Identical to Table 2-3 in Section 2.2.

Response Planning Standards - Alaska

Oil Terminal Facilities 18 AAC 75.432

Volume of Largest Tank (gallons)
1,052,000

Prevention Measure	**Possible Reduction**	**Realized Reduction**	**Discussion/Reference**	**Volume Reduction** (gallons)	**Adjusted Volume** (gallons)	
Alcohol and drug testing of key personnel	5%	5%	18 AAC 75.432(d)(1)	52,600	999,400	
Operations training program with a professional organization or federal certification or licensing of program participants	5%	0%	18 AAC 75.432(d)(2)	-	999,400	
On-line leak detection systems that automatically alarm at a facility control room that is continuously monitored, for tanks and piping	5%	0%	18 AAC 75.432(d)(3)	-	999,400	
A sufficiently impermeable secondary containment area with a dike capable of holding the contents of the largest tank, or all potentially affected tanks in the case of increased risk, and precipitation	60%	60%	18 AAC 75.432(d)(4)	599,640	399,760	
Cathodic protection for aboveground oil storage tanks and belowground facility piping within secondary containment	10%	0%	18 AAC 75.432(d)(5)(A)	-	399,760	
Fail-safe valves on piping systems	15%	0%	18 AAC 75.432(d)(5)(B)	-	399,760	
Impervious containment area extending under the full area of each storage tank or double bottoms with leak detection	25%	0%	18 AAC 75.432(d)(5)(C)	-	399,760	
Containment outside the secondary containment area	10%	0%	18 AAC 75.432(d)(6)	-	399,760	
			Total Adjusted RPS Volume (gallons)		**399,760**	**9,518** bbls

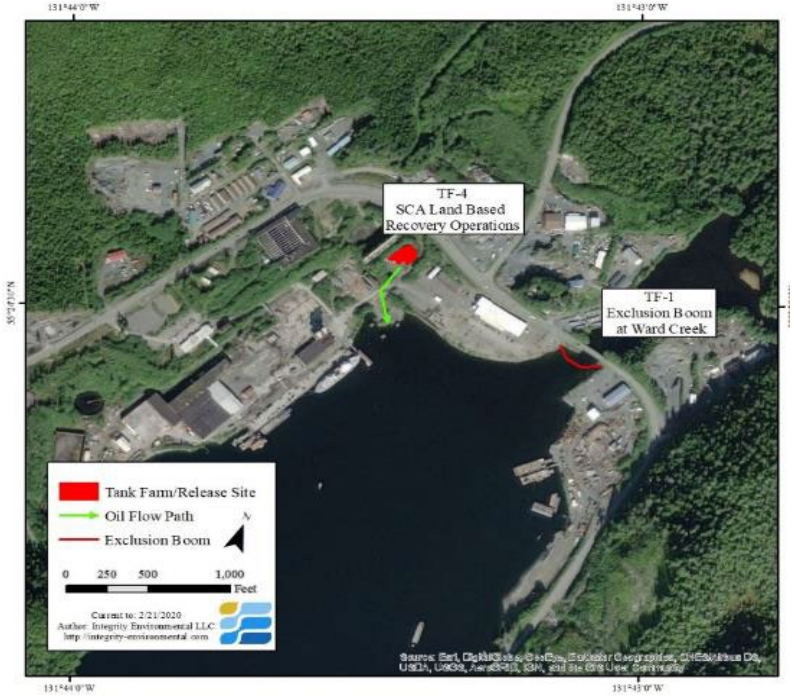
Estimated of RPS to Remain On Land (refer to Section 3.2)
10%

Total Adjusted RPS to Remain on Land (gallons)	**39,976**	**952** bbls
Total Adjusted RPS to Reach Water (gallons)	**359,784**	**8,566** bbls

ICS 201 Ketchikan Bulk Facility Scenario					
1. Incident Name	**2. Prepared By:**		Delta Western, LLC		**INCIDENT BRIEFING**
KTN Bulk Facility Gasoline Scenario	**Date:**	10/15	**Time:**	0600	**ICS 201-CG**

3. Map / Sketch

(include sketch, showing the total area of operations, the incident sire/area, impacted and threatened areas, overflight results, trajectories, impacted shorelines or other graphics depicting the situational status and resource assignment)



4. Current Situation

Incident priorities: See ICS-201 Page 2

ICS 201 Ketchikan Bulk Facility Scenario				
1. Incident Name	**2. Prepared By:**	Delta Western, LLC		**INCIDENT BRIEFING**
KTN Bulk Facility Gasoline Scenario	**Date:**	10/15	**Time:**	0600	**ICS 201-CG**

5. Initial Response Objectives, Current Actions, Planned Actions

Objectives:

Ensure safety of responders and the public
Contain, control, and recover spilled oil
Complete all required notifications
Mobilize resources
Protect environmentally sensitive areas and areas of public concern

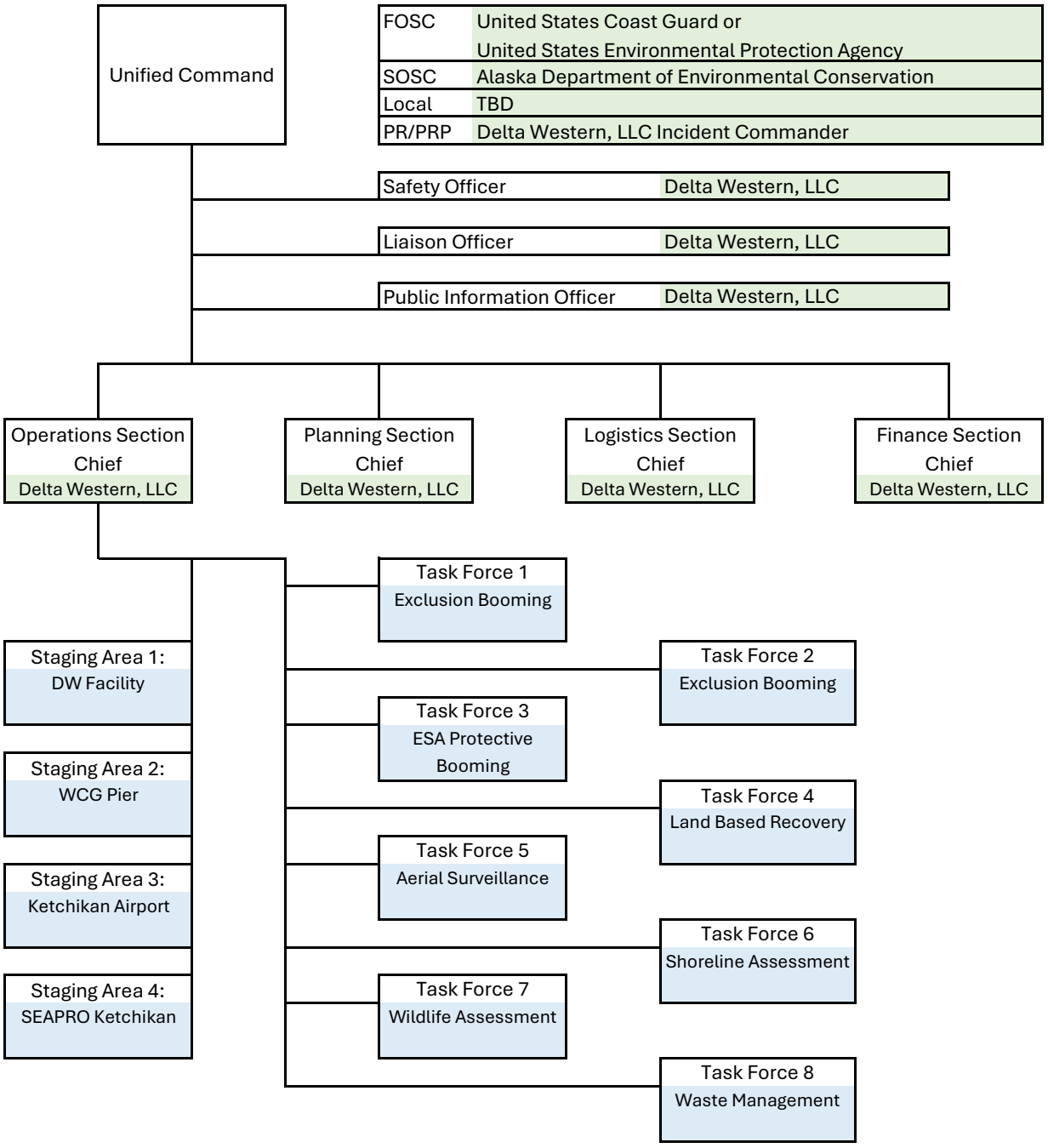
Current Actions / Planned Actions:

TIME	ACTION
0600	Spill discovered
0605	Alert DW personnel and evacuate the immediate area
0615	Call Ketchikan Fire Department to alert them of a large gasoline release. Contact Ketchikan Police Department to coordinate traffic control and limit access to the site. Contact adjacent businesses and tell them to evacuate the area.
0620	Discovering employee, supervisor, or Facility Manager notifies QI of discovery
0625	QI Notifies SEAPRO to request responders and mobilization of Ketchikan equipment
0630	Begin agency notifications (QI will initially notify NRC and ADEC; additional notifications may be made later as deemed necessary.)
0630	Complete initial notifications and assemble response personnel
0640	Operations/safety briefing by DW IOSC
0700	TF-1 - DW containment boom deployed using the exclusion booming tactic at the mouth of Ward Creek (500 ft.) and Whipple Creek (400 ft.)
0745	Anchor set and booming complete
1030	TF-2 - SEAPRO Ketchikan responders arrive on site. They deploy exclusion boom at Mudd Bay (600 ft.) and Totem Bight (500 ft.)
1130	TF-3 - At the discretion of the IOSC and the SEAPRO Operations Manager, protect any threatened anadromous streams or boat harbors

ICS 201 Ketchikan Bulk Facility Scenario

1. Incident Name	2. Prepared By:	Delta Western, LLC	INCIDENT BRIEFING
KTN Bulk Facility Gasoline Scenario	Date: 10/15	Time: 0600	ICS 201-CG

6. Current Organization



Note: Where Delta Western, LLC or DW is listed, this position may be filled by a Delta Western, LLC employee, parent company personnel, or other contracted resources, as described in the Delta Western, LLC Ketchikan Bulk Facility CPLAN. This applies throughout all ICS forms.

ICS 201 Ketchikan Bulk Facility Scenario					
1. Incident Name	**2. Prepared By:**		Delta Western, LLC		**INCIDENT BRIEFING**
KTN Bulk Facility Gasoline Scenario	**Date:**	10/15	**Time:**	0600	**ICS 201-CG**

7. Resources Summary

Resource	Resource Identifier	Date/Time Ordered	ETA	On-Scene (X)	Notes
Containment Boom (8" x 12')	900 ft			X	Task Force 1
Containment Boom (Inflatable, 12" x 13")	200 ft	10-15, 0630	10-15, 1030		Task Force 1
Anchors (25 lb.) w/ Line	4			X	Task Force 1
Skiff (25' w/ 300 HP Outboard)	1			X	Task Force 1
Responder	2			X	Task Force 1
Containment Boom (Foam, 8" x 12')	1,100 ft			X	Task Force 2
Containment Boom (Inflatable, 12" x 13")	290 ft	10-15, 0630	10-15, 1030		Task Force 2
Anchor Systems (30/40 lb.)	4	10-15, 0630	10-15, 1030		Task Force 2
Skiff	1	10-15, 0630	10-15, 1030		Task Force 2
Responder	2	10-15, 0630	10-15, 1030		Task Force 2
Containment Boom (Foam, 8" x 12')	1,200 ft	10-15, 0630	10-15, 1030		Task Force 3
Anchor Systems (30/40 lb.)	30	10-15, 0630	10-15, 1030		Task Force 3
Skiff	1	10-15, 0630	10-15, 1030		Task Force 3
Responder	2	10-15, 0630	10-15, 1030		Task Force 3
Vac Truck	1	10-15, 0630	10-15, 1030		Task Force 4
Storage Bladder (Unitor 100 m^3)	2	10-15, 0630	10-15, 1030		Task Force 4
BW Technologies Ultra 5 PID	2	10-15, 0630	10-15, 1030		Task Force 4
Responder	3	10-15, 0630	10-15, 1030		Task Force 4
Responder	1	10-15, 0630	10-15, 1030		Task Force 4
Drone (SplashDrone 4+)	1	10-15, 0630	10-15, 1030		Task Force 5
Helicopter	1	10-15, 0630	10-15, 1030		Task Force 5
PPE (Mustang Suits)	3	10-15, 0630	10-15, 1030		Task Force 5
Responder	1	10-15, 0630	10-15, 1030		Task Force 5
Responder	2	10-15, 0630	10-15, 1030		Task Force 5
Skiff	1	10-15, 0630	10-15, 1030		Task Force 6
Responder	1	10-15, 0630	10-15, 1030		Task Force 6
Responder	2	10-15, 0630	10-15, 1030		Task Force 6
Oil Spill Response Vessel (Bay Class)	1	10-15, 0630	10-15, 1030		Task Force 7
Wildlife Hazing Kit	1	10-15, 0630	10-15, 1030		Task Force 7
Responder	3	10-15, 0630	10-15, 1030		Task Force 7
Responder	2	10-15, 0630	10-17, 0630		Task Force 7
Responder	1			X	Task Force 7
ISO Tank	2			X	Task Force 8
Pump (CH&E, 3")	1	10-15, 0630	10-15, 1030		Task Force 8
Hose (Transfer, 3")	1	10-15, 0630	10-15, 1030		Task Force 8
Responder	1	10-15, 0630	10-15, 1030		Task Force 8
Responder	1			X	Task Force 8
Responder	1	10-15, 0630	10-15, 1030		Task Force 8

Note: If an "X" appears in the On-Scene column, the equipment and/or personnel are part of Delta Western, LLC.

ICS 204 Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period			ASSIGNMENT LIST
KTN Bulk Facility Gasoline Scenario	From:	10-15, 0600	To: 10-16, 0600	ICS-204 CG

3. Branch	4. Division/Group/Staging
N/A; no branches included in this scenario	N/A; no divisions or groups included in this scenario; refer to page 3 of the ICS-201 for staging areas

5. Operational Personnel

Position	Name	Affiliation	Contact # (s)
Initial Incident Commander	TBD	Delta Western, LLC	TBD
Operations Section Chief	TBD	Delta Western, LLC	TBD

6. Resources Assigned

Strike Team / Task Force /	Leader	Contact Info. #	# Of Persons	Notes/Remarks	
Task Force 1	TF1 Leader	TBD	2		X
Task Force 2	TF2 Leader	TBD	2		X
Task Force 3	TF3 Leader	TBD	2		X
Task Force 4	TF4 Leader	TBD	4		X
Task Force 5	TF5 Leader	TBD	3		X
Task Force 6	TF6 Leader	TBD	3		X
Task Force 7	TF7 Leader	TBD	6		X
Task Force 8	TF8 Leader	TBD	3		X

7. Assignments

Task Force 1	Exclusion Booming
Task Force 2	Exclusion Booming
Task Force 3	ESA Protective Booming
Task Force 4	Land Based Recovery
Task Force 5	Aerial Surveillance
Task Force 6	Shoreline Assessment
Task Force 7	Wildlife Assessment
Task Force 8	Waste Management

8. Special Instructions

All operations require personal protective equipment (PPE) specific to a gasoline release. Responders must stay up wind from this release and wear respiratory protection when necessary. Any on water, or near water, operations require a personal floation device (PFD). All response personnel must read the Site Safety and Health Plan when available. All response personnel are to read tides and currents when provided. Immediately report sightings of oiled wildlife to the Incident Commander.

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name / Function	Radio Freq. / System / Channel	Cell / Pager
Task Force 1	10 - SEAPRO Default	TBD
Task Force 2	10 - SEAPRO Default	TBD
Task Force 3	10 - SEAPRO Default	TBD
Task Force 4	10 - SEAPRO Default	TBD
Task Force 5	10 - SEAPRO Default	TBD
Task Force 6	10 - SEAPRO Default	TBD
Task Force 7	10 - SEAPRO Default	TBD
Task Force 8	10 - SEAPRO Default	TBD

Emergency Communications

Medical: Evacuation: Other:

10. Prepared By	11. Approved By
Planning Section	Unified Command

ICS 204a Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period		ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Gasoline Scenario	From: 10-15, 0600	To: 10-16, 0600	ICS-204a CG

3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 1 Exclusion Booming	TF1 Leader	DW Facility

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

If it is safe to do so deploy protected-water boom in front of the entrance to Ward Creek and Whipple Creek. The Ward Creek boom may be deployed from land. Add tidal seal boom once available. Maintain boom throughout tide changes and keep in place for as long as determined by the IMT. Depending on the concentration of product of the water, the skiff may be used to deploy exclusion boom at Whipple Creek.

See STAR Manual Section: B-III-12 - Exclusion boom

Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Containment Boom (8" x 12')	900 ft	DW	Exclusion boom	DW Facility
Containment Boom (Inflatable, 12" x 13")	200 ft	SEAPRO	Tidal seal boom	DW Facility
Anchors (25 lb.) w/ Line	4	DW		DW Facility
Skiff (25' w/ 300 HP Outboard)	1	DW		DW Facility
Responder	2	DW	Deploy exclusion boom	DW Facility

Special Environmental Considerations

Refer to ICS-204

Both Ward Creek and Whipple Creek have fish, intertidal spawning, waterfowl, recreational use. Ward Creek is accessible via road. Whipple Creek is accesible via trail system.

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

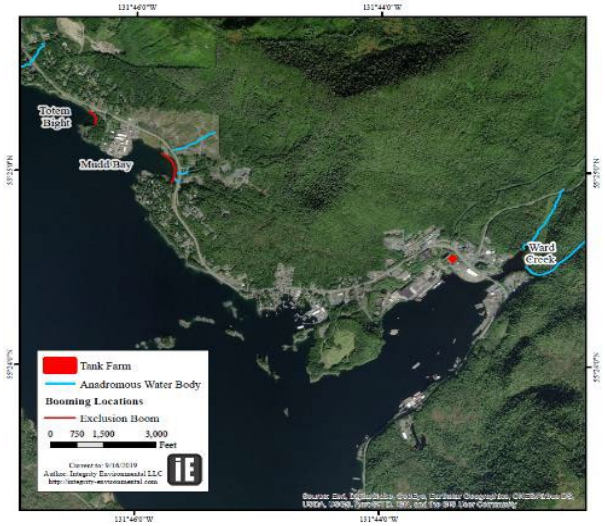
1. Incident Name	2. Operational Period			ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Gasoline Scenario	From:	10-15, 0600	To: 10-16, 0600	ICS-204a CG

3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 2 Exclusion Booming	TF2 Leader	SEAPRO Ketchikan

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy exclusion boom across the channels of the streams in Mudd Bay (600 ft.) and Totem Blight (500 ft). Note: This task has been modified from the GRS because the released product is gasoline, which cannot be safely recovered with sorbent boom.

See STAR Manual Section: B-III-12 - Exclusion boom



Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Containment Boom (Foam, 8" x 12')	1,100 ft	SEAPRO		SEAPRO Ketchikan
Containment Boom (Inflatable, 12" x 13")	290 ft	SEAPRO	Tidal seal boom	SEAPRO Ketchikan
Anchor Systems (30/40 lb.)	4	SEAPRO		SEAPRO Ketchikan
Skiff	1	SEAPRO		SEAPRO Ketchikan
Responder	2	SEAPRO	Maintain communication via radio	SEAPRO Ketchikan

Special Environmental Considerations

Refer to ICS-204

Both Mudd Bay and Totem Bight have fish, intertidal spawning, waterfowl, recreational use. Accessible via road.

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

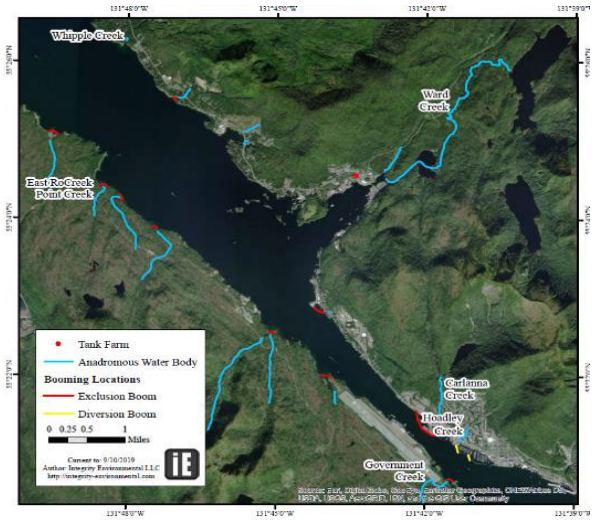
1. Incident Name	2. Operational Period			ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Gasoline Scenario	From:	10-15, 0600	To: 10-16, 0600	ICS-204a CG

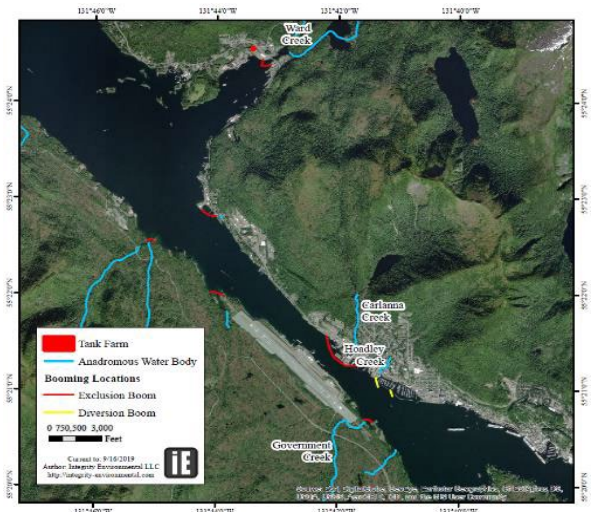
3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 3 ESA Protective Booming	TF3 Leader	SEAPRO Ketchikan

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy exclusion or diversion boom at any threatened environmentally sensitive areas (ESAs) such as anadromous streams and/or boat harbors, at locations most likely to be impacted based on TF-5 and TF-6 findings. Maintain boom throughout tide changes. Protective boom will remain in place for as long as deemed necessary by the IMT. Potentially affected ESAs may change if the wind is southwest (below left) or northwest (below right).

See STAR Manual Section: B-III-1 - Booming basics
See STAR Manual Section: B-III-8 - Diversion boom
See STAR Manual Section: B-III-12 - Exclusion boom
See STAR Manual Section: B-III-13 - Deflection boom





Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Containment Boom (Foam, 8" x 12')	1,200 ft	SEAPRO		DW Facility
Anchor Systems (30/40 lb.)	30	SEAPRO		DW Facility
Skiff	1	SEAPRO		DW Facility
Responder	2	SEAPRO	Maintain communication via radio	DW Facility

Special Environmental Considerations

Refer to ICS-204

Fish, intertidal spawning, waterfowl, recreational use. Accessible via trail systems and water ways.

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period				ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Gasoline Scenario	From:	10-15, 0600	To:	10-16, 0600	ICS-204a CG

3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 4 Land Based Recovery	TF4 Leader	DW Facility/WCG Pier

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

This task should only begin after the fire department has completely encapsulated the gasoline release. Responders will deploy the bladders in the water near the DW yard area away from the release. Using the contracted vac truck, recover the encapsulated gasoline from the SCA and where it has pooled on land within the spill path. Transfer recovered product to the temporary storage containers.

See STAR Manual Section: B-II-1 - Plume delineation, land
See STAR Manual Section: B-III-7 - On-land recovery
See STAR Manual Section: B-III-17 - Land-based storage & transfer of oily liquids

Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Vac Truck	1	Contract	Recovery product from SCA and where it is pooled on land	DW Facility
Storage Bladder (Unitor 100 m^3)	2	SEAPRO	Used to store recovered product	WCG Pier
BW Technologies Ultra 5 PID	2	SEAPRO	Air monitoring device	DW Facility
Responder	3	SEAPRO	Deploy bladders and assist recovery/transfer; conduct air monitoring	WCG Pier
Responder	1	Contract	Operate vac truck	DW Facility

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

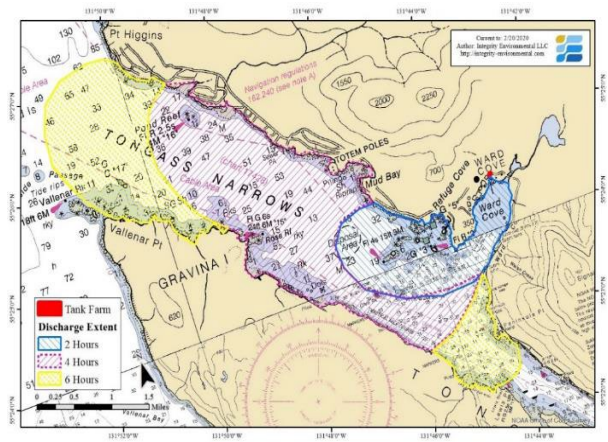
1. Incident Name	2. Operational Period			ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Gasoline Scenario	From:	10-15, 0600	To: 10-16, 0600	ICS-204a CG

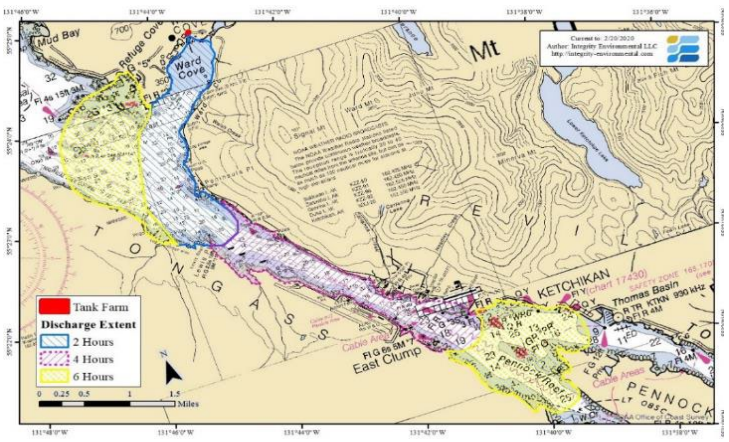
3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 5 Aerial Surveillance	TF5 Leader	Ketchikan Airport

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy drone and/or helicopter to perform aerial surveillance of the on-water oil to assist with response. Spill trajectory at hour 2, 4, and 6 without recovery operations with southeast winds (below left) and northwest winds (below right).

See STAR Manual Section: B-II-1 - Plume delineation, land
See STAR Manual Section: B-II-2 - Discharge tracking on water
See STAR Manual Section: B-II-3 - Aerial observations supporting nearshore operations





Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Drone (SplashDrone 4+)	1	SEAPRO	On-water spill tracking	DW Facility
Helicopter	1	Contract	If adverse weather conditions prevent operation of the drone, a contracted helicopter will be used.	Ketchikan Airport
PPE (Mustang Suits)	3	SEAPRO		Ketchikan Airport
Responder	1	Contract		Ketchikan Airport
Responder	2	SEAPRO		DW Facility

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

Water operations - PFD and survival suit required for helicopter personnel.

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario					
1. Incident Name	**2. Operational Period**				**ASSIGNMENT LIST A ATTACHMENT**
KTN Bulk Facility Gasoline Scenario	**From:**	10-15, 0600	**To:**	10-16, 0600	**ICS-204a CG**
3. Branch			**4. Division/Group/Staging**		
Refer to ICS-204			Refer to ICS-204		
5. Strike Team / Task Force / Resource (Identifier)			**6. Leader**	**7. Assignment Location**	
Task Force 6 Shoreline Assessment			TF6 Leader	SEAPRO Ketchikan	

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Prepare shoreline and upland assessment implementation plan with IMT. Make accessability determinations based on findings from TF-5. Once cleared to begin by the Fire Department, begin shoreline recovery based on approved assessment. SEAPRO work skiff will be redirected to this TF after completion of TF-2 and TF-3.

See STAR Manual Section: B-III-10 - Shoreside recovery
See STAR Manual Section: B-III-11 - Passive recovery

Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Skiff	1	SEAPRO	Redeployment after completion of TF-2 and TF-3	SEAPRO Ketchikan
Responder	1	SEAPRO	Shoreline and upland assessment	SEAPRO Ketchikan
Responder	2	Agency	Shoreline and upland assessment	SEAPRO Ketchikan

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	**Date / Time**	**11. Reviewed By**	**Date / Time**	**12. Reviewed By**	**Date / Time**
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario						
1. Incident Name	**2. Operational Period**				**ASSIGNMENT LIST A ATTACHMENT**	
KTN Bulk Facility Gasoline Scenario	**From:**	10-15, 0600	**To:**	10-16, 0600	**ICS-204a CG**	
3. Branch			**4. Division/Group/Staging**			
Refer to ICS-204			Refer to ICS-204			
5. Strike Team / Task Force / Resource (Identifier)			**6. Leader**		**7. Assignment Location**	
Task Force 7 Wildlife Assessment			TF7 Leader		SEAPRO Ketchikan	
8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations						
Prepare wildlife assessment with potential implementation of hazing techniques. Make accessability determinations and protection needs based on findings from TF-5. Report wildlife observations to environmental unit.						
Special Equipment / Supplies Needed						
Type	Quantity	Equipment Details			Staging Area	
Oil Spill Response Vessel (Bay Class)	1	SEAPRO			SEAPRO Ketchikan	
Wildlife Hazing Kit	1	SEAPRO			SEAPRO Ketchikan	
Responder	3	SEAPRO			SEAPRO Ketchikan	
Responder	2	SEAPRO	IBR under SEAPRO Contract		SEAPRO Ketchikan	
Responder	1	DW			SEAPRO Ketchikan	
Special Environmental Considerations						
Refer to ICS-204						
Special Site Specific Safety Considerations						
Refer to ICS-204						
9. Other Attachments (as needed)						
☐ Map / Chart	☐ Weather Forecast / Tides / Currents			☐ _____		
10. Prepared By	**Date / Time**	**11. Reviewed By**	**Date / Time**		**12. Reviewed By**	**Date / Time**
Planning Section		Operations Section			Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period				ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Gasoline Scenario	From:	10-15, 0600	To:	10-16, 0600	ICS-204a CG

3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 8 Waste Management	TF8 Leader	WCG Pier

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Transfer and storage of recovered product from on-land recovery operations. Recovered product is transferred from bladders staged at the WCG Pier to ISO containers if available or tank trucks if no ISO containers available until it can be transported off site. Maintain documentation that accounts for quantity of product transferred from each device throughout the response.

See STAR Manual Section: B-III-17 - Land-based storage & transfer of oily liquids

See STAR Manual Section: B-III-18 - Pumping oily liquids

Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
ISO Tank	2	Contract	Transfer of recovered slurry	WCG Pier
Pump (CH&E, 3")	1	SEAPRO		WCG Pier
Hose (Transfer, 3")	1	SEAPRO		WCG Pier
Responder	1	Contract	Operate vac truck	WCG Pier
Responder	1	DW		WCG Pier
Responder	1	SEAPRO	Monitor and record transfer operation from	WCG Pier

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 232 Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period		RESOURCES AT RISK
KTN Bulk Facility Gasoline Scenario	**From:** 10-15, 0600	**To:** 10-16, 0600	**ICS 232-CG**

3. Environmentally Sensitive Areas and Wildlife Issues

Site #	Priority	Site Name and /or Physical Location	Site Issues
SE01-19-01a	1	Refuge & Ward Coves - Ward Creek & Whipple Creek	Fish, intertidal spawning, waterfowl, recreational use. Accessible via road.
SE01-19-01b	2	Refuge & Ward Coves - Mudd Bay & Totem Bight	Fish, intertidal spawning, waterfowl, recreational use. Accessible via road.
N/A	3	Endangered Species - Fish	Fin Whale, Humpback Whale, Stellar Sea Lion
N/A	4	Endangered Species - Birds	Short-Tailed Albatross
N/A	5	Surrounding anadromous streams	Fish, intertidal spawning, waterfowl, recreational use. Accessible via trail systems and water ways.
N/A	6	Immediate Shoreline Habitats	Gravel beaches, exposed tidal flats, and sheltered rocky shores.

Narrative

Deploy exclusion boom at the mouths of anadromous streams and water bodies listed in the Geographic Response Strategies. At the discretion of the Incident Commander, Operations Section Chief, and Oil Spill Response Organization/Primary Response Action Contractor, deploy exclusion boom at other anadromous streams in the area.

4. Archaeo-cultural and Socio-economic issues

Site #	Priority	Site Name and /or Physical Location	Site Issues
1	TBD	Landmarks, burial sites (not specified for protection)	Historic Properties
2	TBD	Habitat pens, water intakes	Commercial fisheries, hatcharies, and processors
3	TBD	Totem Bight, Refuge Cove	State Parks
4	TBD	Seaplane runways, Ketchikan International Airport	Airports
5	TBD	Ward Cove, Cruise Ship Pier, Refuge Cove Marina	Marinas/Boat Ramps
6	TBD	Miscellaneous	Waterfront Buildings

Narrative

The above list identify potential site categories of major concern in the local area. Consult with the on-scene coordinator and available agency resources for additional potential sites. All responders are instructed to report any cultural resources found during operations to Federal On-Scene Coordinator Historic Properties Specialist.

4. Prepared By	Date / Time
Environmental Unit Lead	

Note: Form ICS 232 will be written with direct input from resource agencies at the time of a spill. The above document is used for scenario reference.

OIL RECOVERY CALCULATIONS	
Total Adjusted RPS to Remain on Land (gallons)	**39,976**

Oil Recovery Table - Spill to Land								
Operational Period	**Task Force**		**Recovery Equipment**	**Quantity**	**EDRC** (gal/day)		**Volume** (gallons)	
						Hours Operating	**Oil Recovered**	**Cumulative Oil Recovered**
1	Task Force 4	Land Based Recovery	Vac Truck	1	28,224	10	11,760	11,760
2	Task Force 4	Land Based Recovery	Vac Truck	1	28,224	12	14,112	25,872
3	Task Force 4	Land Based Recovery	Vac Truck	1	28,224	12	14,112	39,984

TEMPORARY STORAGE CALCULATIONS	
Total Oil Recovered (gallons)	**39,984**

Operational Period	**Task Force**		**Storage Equipment**	**Quantity**	**Volume** (gallons)		
					Capacity	**Total Capacity**	**Cumulative Capacity**
1, 2, and 3	Task Force 4	Land Based Recovery	Storage Bladder (Unitor 100 m^3)	2	26,418	52,836	52,836
1, 2, and 3	Task Force 4	Land Based Recovery	Vac Truck	1	672	672	53,508
1, 2, and 3	Task Force 8	Waste Management	ISO Tank	2	6,000	12,000	65,508

SUMMARY	
Total Temporary Storage Capacity (gallons)	65,508
Total Oil Recovered (gallons)	39,984
Net (gallons)	25,524

2.2 Diesel Scenario

The diesel scenario is presented on the pages that follow and is comprised of the following elements:

- Response Planning Standard[20]
- ICS-201 Incident Briefing Form
- ICS-204 and ICS-204a Assignment List and Assignment List A Attachments
- ICS-232 Resources at Risk
- Oil Recovery &Temporary Storage Tables

[20] Reiteration of the information provided in Section 5 of the Delta Western, LLC Ketchikan Bulk Facility CPLAN. Identical to Table 2-1 in Section 2.1.

Response Planning Standards - Alaska

Oil Terminal Facilities 18 AAC 75.432

Volume of Largest Tank (gallons)
1,052,000

Prevention Measure	**Possible Reduction**	**Realized Reduction**	**Discussion/Reference**	**Volume Reduction** (gallons)	**Adjusted Volume** (gallons)	
Alcohol and drug testing of key personnel	5%	5%	18 AAC 75.432(d)(1)	52,600	999,400	
Operations training program with a professional organization or federal certification or licensing of program participants	5%	0%	18 AAC 75.432(d)(2)	-	999,400	
On-line leak detection systems that automatically alarm at a facility control room that is continuously monitored, for tanks and piping	5%	0%	18 AAC 75.432(d)(3)	-	999,400	
A sufficiently impermeable secondary containment area with a dike capable of holding the contents of the largest tank, or all potentially affected tanks in the case of increased risk, and precipitation	60%	60%	18 AAC 75.432(d)(4)	599,640	399,760	
Cathodic protection for aboveground oil storage tanks and belowground facility piping within secondary containment	10%	0%	18 AAC 75.432(d)(5)(A)	-	399,760	
Fail-safe valves on piping systems	15%	0%	18 AAC 75.432(d)(5)(B)	-	399,760	
Impervious containment area extending under the full area of each storage tank or double bottoms with leak detection	25%	0%	18 AAC 75.432(d)(5)(C)	-	399,760	
Containment outside the secondary containment area	10%	0%	18 AAC 75.432(d)(6)	-	399,760	
			Total Adjusted RPS Volume (gallons)		**399,760**	**9,518** bbls

Estimated of RPS to Remain On Land (refer to Section 3.2)
10%

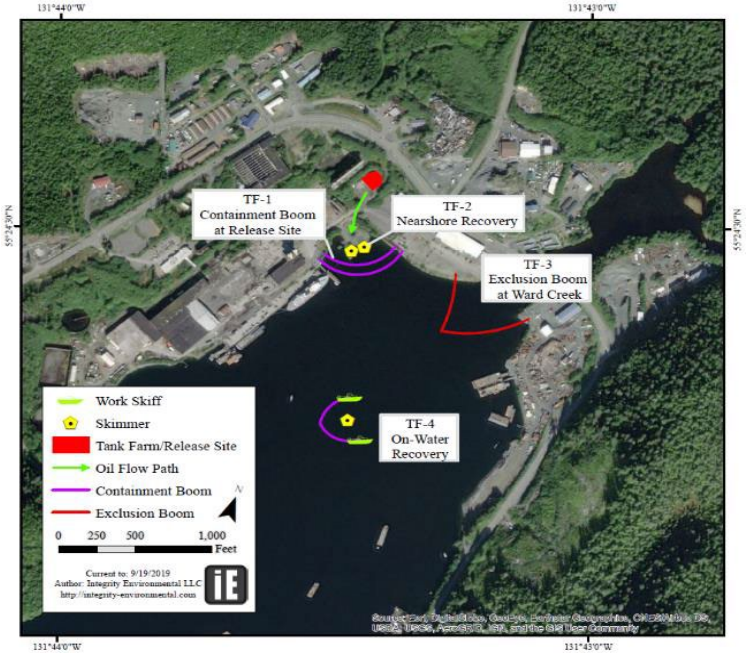
Total Adjusted RPS to Remain on Land (gallons)	**39,976**	**952** bbls
Total Adjusted RPS to Reach Water (gallons)	**359,784**	**8,566** bbls

ICS 201 Ketchikan Bulk Facility Scenario

1. Incident Name	2. Prepared By:	Delta Western, LLC		INCIDENT BRIEFING
KTN Bulk Facility Diesel Scenario	Date: 10/15	Time: 0600		ICS 201-CG

3. Map / Sketch

(include sketch, showing the total area of operations, the incident sire/area, impacted and threatened areas, overflight results, trajectories, impacted shorelines or other graphics depicting the situational status and resource assignment)



4. Current Situation

Incident priorities: See ICS-201 Page 2

ICS 201 Ketchikan Bulk Facility Scenario					
1. Incident Name	**2. Prepared By:**		Delta Western, LLC		**INCIDENT BRIEFING**
KTN Bulk Facility Diesel Scenario	**Date:**	10/15	**Time:**	0600	**ICS 201-CG**

5. Initial Response Objectives, Current Actions, Planned Actions

Objectives:

Ensure safety of responders and the public
Contain, control, and recover spilled oil
Complete all required notifications
Mobilize resources
Protect environmentally sensitive areas and areas of public concern

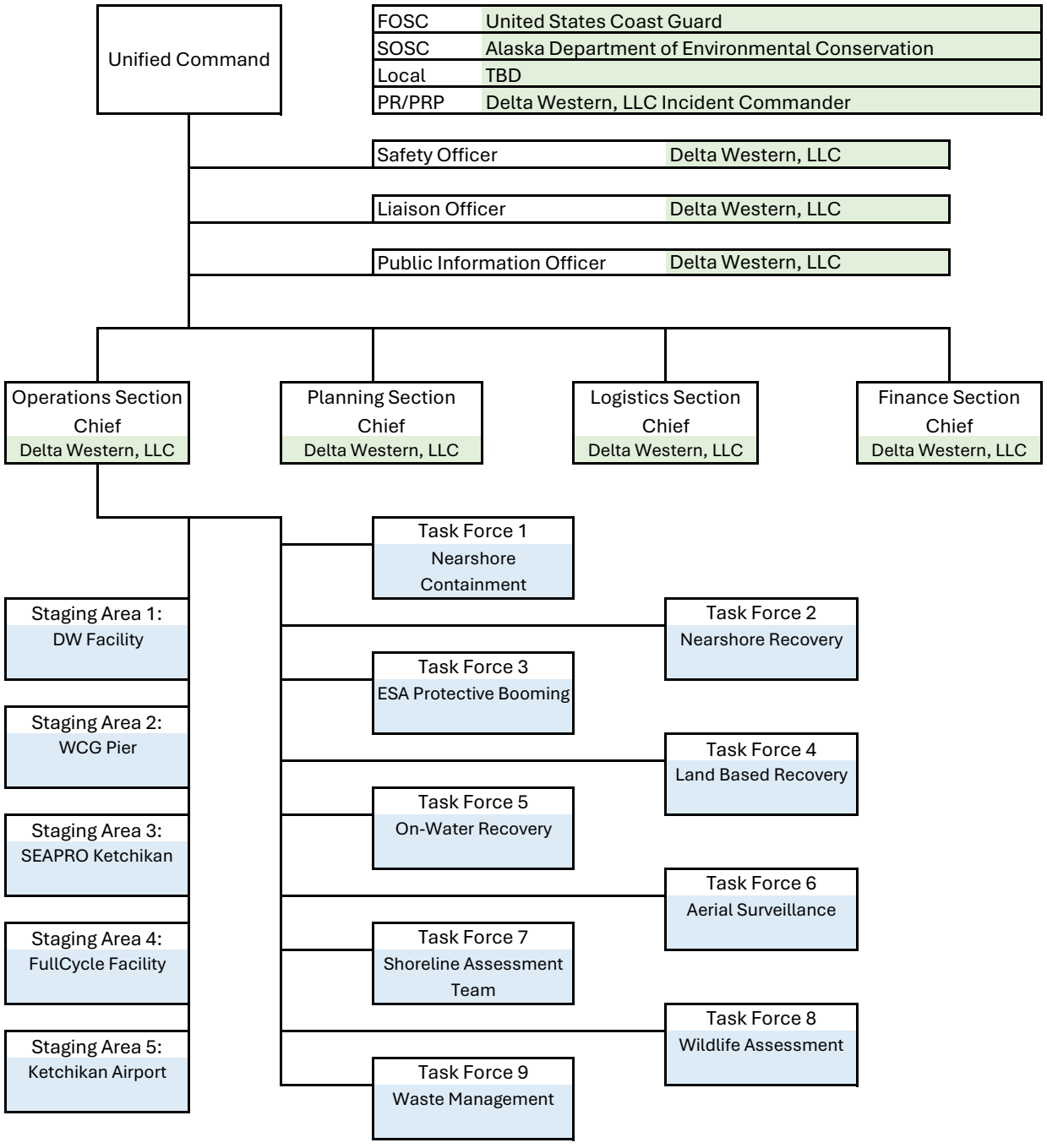
Current Actions / Planned Actions:

TIME	ACTION
0600	Spill discovered
0605	Discovering employee, supervisor, or Facility Manager notifies QI of discovery
0610	QI notifies SEAPRO to request responders and mobilization of Ketchikan equipment
0615	Begin agency notifications (QI will initially notify NRC and ADEC; additional notifications may be made later as deemed necessary.)
0625	Complete initial notifications and assemble response personnel
0630	Operations/safety briefing by DW IOSC
0630	Deploy DW skiff with 400 ft. containment boom
0640	DW containment boom deployed around the release site at the shoreline
0700	TF-1 - Anchors are set on first strand of containment boom. Deploy second strand of containment boom at the release site around the first.
0745	TF-1 - Anchors set on second strand of containment boom. The containment boom is lined with sorbent boom to passively recover diesel fuel from the water.
1000	TF-2 - SEAPRO equipment and responders arrive on scene. Storage devices and skimmers are deployed and nearshore recovery begins within the containment boom.

ICS 201 Ketchikan Bulk Facility Scenario

1. Incident Name	2. Prepared By:	Delta Western, LLC	INCIDENT BRIEFING
KTN Bulk Facility Diesel Scenario	Date: 10/15	Time: 0600	ICS 201-CG

6. Current Organization



Note: Where Delta Western, LLC or DW is listed, this position may be filled by a Delta Western, LLC employee, parent company personnel, or other contracted resources, as described in the Delta Western, LLC Ketchikan Bulk Facility CPLAN. This applies throughout all ICS forms.

ICS 201 Ketchikan Bulk Facility Scenario					
1. Incident Name	**2. Prepared By:**	Delta Western, LLC			**INCIDENT BRIEFING**
KTN Bulk Facility Diesel Scenario	**Date:** 10/15	**Time:** 0600			**ICS 201-CG**
7. Resources Summary					
Resource	Resource Identifier	Date/Time Ordered	ETA	On-Scene (X)	Notes
Containment Boom	900 ft			X	Task Force 1
Anchors (25 lb.) w/ Line	6			X	Task Force 1
Sorbent Rolls (38" x 144')	2			X	Task Force 1
Skiff (25' w/ 300 HP Outboard)	1			X	Task Force 1
Responder	2			X	Task Force 1
Skimmer (Aquaguard RBS Triton 35)	4	10-15, 0600	10-15, 1000		Task Force 2
Skimmer Power Pack (Aquaguard 35	4	10-15, 0600	10-15, 1000		Task Force 2
Storage Bladder (Canflex FCB-25)	8	10-15, 0600	10-15, 1000		Task Force 2
Responder	4	10-15, 0600	10-15, 1000		Task Force 2
Containment Boom (Foam, 8" x 12')	900 ft	10-15, 0600	10-15, 1000		Task Force 3
Anchor Systems (30/40 lb.)		10-15, 0600	10-15, 1000		Task Force 3
Sorbent Rolls (38" x 144')	2	10-15, 0600	10-15, 1000		Task Force 3
Containment Boom (Foam, 8" x 12')	500 ft	10-15, 0600	10-15, 1000		Task Force 3
Containment Boom (Inflatable, 12" x 13")	490 ft	10-15, 0600	10-15, 1000		Task Force 3
Skiff	1	10-15, 0600	10-15, 1000		Task Force 3
Responder	2	10-15, 0600	10-15, 1000		Task Force 3
Vac Truck	1	10-15, 0600	10-15, 0800		Task Force 4
Storage Bladder (Unitor 100 m^3)	2	10-15, 0600	10-15, 1000		Task Force 4
BW Technologies Ultra 5 PID	2	10-15, 0600	10-15, 1000		Task Force 4
Responder	1	10-15, 0600	10-15, 0800		Task Force 4
Responder	3	10-15, 0600	10-15, 1000		Task Force 4
Skiff (25' w/ 300 HP Outboard)	1			X	Task Force 5
Oil Spill Response Vessel (Bay Class)	1	10-15, 0600	10-15, 1000		Task Force 5
Containment Boom (Inflatable, 14" x 16")	300 ft	10-15, 0600	10-15, 1000		Task Force 5
Skimmer (LORI 3 Brush)	1	10-15, 0600	10-15, 1000		Task Force 5
Skimmer (LORI 2 Brush)	1	10-15, 0600	10-15, 1000		Task Force 5
Barge (Oil Response)	1	10-15, 0600	10-15, 1000		Task Force 5
Storage Bladder (Unitor 1,000 m^3)	2	10-15, 0600	10-15, 1000		Task Force 5
Responder	2			X	Task Force 5
Responder	10	10-15, 0600	10-15, 1000		Task Force 5
Drone (SplashDrone 4+)	1	10-15, 0600	10-15, 1000		Task Force 6
Helicopter	1	10-15, 0600	10-15, 1000		Task Force 6
PPE (Mustang Suits)	3	10-15, 0600	10-15, 1000		Task Force 6
Responder	2	10-15, 0600	10-15, 1000		Task Force 6
Responder	1	10-15, 0600	10-15, 1000		Task Force 6
Skiff	1	10-15, 0600	10-15, 1000		Task Force 7
Responder	1	10-15, 0600	10-15, 1000		Task Force 7
Responder	2	10-15, 0600	10-15, 1000		Task Force 7
Skiff	1	10-15, 0600	10-15, 1000		Task Force 8
Responder	3	10-15, 0600	10-15, 1000		Task Force 8
Responder	2	10-15, 0600	10-17, 0600		Task Force 8
Responder	1	10-15, 0600	10-15, 0600		Task Force 8
Wildlife Hazing Kit	1	10-15, 0600	10-15, 1000		Task Force 8
Vac Truck	1	10-15, 0600	10-15, 1000		Task Force 9
Storage - Tank Truck (4,500-gallon)	1			X	Task Force 9
Storage Bladder (Canflex CF-1000)	1	10-15, 0600	10-15, 1000		Task Force 9
Storage Tank (Fastank 5 Portable Tank)	1	10-15, 0600	10-15, 1000		Task Force 9
Responder	1	10-15, 0600	10-15, 0600		Task Force 9
Responder	1	10-15, 0600	10-15, 1000		Task Force 9

Note: If an "X" appears in the On-Scene column, the equipment and/or personnel are part of Delta Western, LLC.

ICS 204 Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period			ASSIGNMENT LIST
KTN Bulk Facility Diesel Scenario	From:	10-15, 0600	To: 10-16, 0600	ICS-204 CG

3. Branch	4. Division/Group/Staging
N/A; no branches included in this scenario	N/A; no divisions or groups included in this scenario; refer to page 3 of the ICS-201 for staging areas

5. Operational Personnel

Position	Name	Affiliation	Contact # (s)
Initial Incident Commander	Facility Manager	Delta Western, LLC	TBD
Operations Section Chief	Facility Personnel	Delta Western, LLC	TBD

6. Resources Assigned

Strike Team / Task Force /	Leader	Contact Info. #	# Of Persons	Notes/Remarks	
Task Force 1	TF1 Leader	TBD	2		X
Task Force 2	TF2 Leader	TBD	4		X
Task Force 3	TF3 Leader	TBD	2		X
Task Force 4	TF4 Leader	TBD	4		X
Task Force 5	TF5 Leader	TBD	12		X
Task Force 6	TF6 Leader	TBD	3		X
Task Force 7	TF7 Leader	TBD	3		X
Task Force 8	TF8 Leader	TBD	6		X
Task Force 9	TF9 Leader	TBD	2		X

7. Assignments

Task Force 1	Nearshore Containment
Task Force 2	Nearshore Recovery
Task Force 3	ESA Protective Booming
Task Force 4	Land Based Recovery
Task Force 5	On-Water Recovery
Task Force 6	Aerial Surveillance
Task Force 7	Shoreline Assessment Team
Task Force 8	Wildlife Assessment
Task Force 9	Waste Management

8. Special Instructions

All operations require personal protective equipment (PPE). Any on water, or near water, operations require a personal floation device (PFD). All response personnel must read the Site Safety and Health Plan when available. All response personnel are to read tides and currents when provided. Immediately report sightings of oiled wildlife to the Incident Commander.

9. Communications (radio and/or phone contact numbers needed for this assignment)

Name / Function	Radio Freq. / System / Channel	Cell / Pager
Task Force 1	10 - SEAPRO Default	TBD
Task Force 2	10 - SEAPRO Default	TBD
Task Force 3	10 - SEAPRO Default	TBD
Task Force 4	10 - SEAPRO Default	TBD
Task Force 5	10 - SEAPRO Default	TBD
Task Force 6	10 - SEAPRO Default	TBD
Task Force 7	10 - SEAPRO Default	TBD
Task Force 8	10 - SEAPRO Default	TBD
Task Force 9	10 - SEAPRO Default	TBD

Emergency Communications

Medical: Evacuation: Other:

10. Prepared By	11. Approved By
Planning Section	Unified Command

ICS 204a Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period				ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Diesel Scenario	From:	10-15, 0600	To:	10-16, 0600	ICS-204a CG

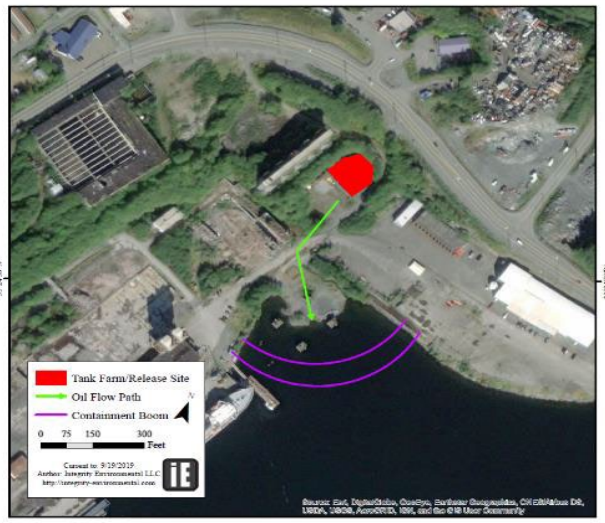
3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 1 Nearshore Containment	TF1 Leader	DW Facility

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy two loops (inner loop: 400 ft., outer loop: 500 ft.) of containment boom at the release site on water. Line the inner loop of containment boom with sorbent boom to passively recover product. The sorbent boom should be replaced as needed throughout the response using boom from SEAPRO.

See STAR Manual Section: B-III-1 - Booming basics

See STAR Manual Section: B-III-2 - Containment boom



Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Containment Boom	900 ft	DW	Facility spill response equipment	DW Facility
Anchors (25 lb.) w/ Line	6	DW	Facility spill response equipment	DW Facility
Sorbent Rolls (38" x 144')	2	DW	Facility spill response equipment	DW Facility
Skiff (25' w/ 300 HP Outboard)	1	DW	Facility spill response equipment	DW Facility
Responder	2	DW	Facility personnel	DW Facility

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period			ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Diesel Scenario	From:	10-15, 0600	To: 10-16, 0600	ICS-204a CG

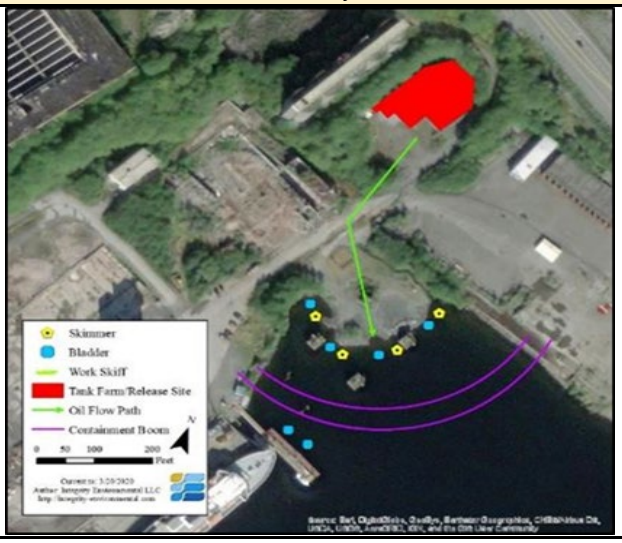
3. Branch	4. Division/Group/Staging
Refer to ICS-204	Refer to ICS-204

5. Strike Team / Task Force / Resource (Identifier)	6. Leader	7. Assignment Location
Task Force 2 Nearshore Recovery	TF2 Leader	DW Facility

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy skimmers within the inner containment boom at the shoreline. Skimmers will discharge to the temporary storage bladders. Each skimmer will have two Canflex bladders to discharge to so there will not be a disruption in the recovery. TF-9 will empty the temporary storage bladders.

See STAR Manual Section: B-III-5 - Nearshore free-oil recovery



Special Equipment / Supplies Needed

Type	Quantity		Equipment Details	Staging Area
Skimmer (Aquaguard RBS Triton 35)	4	SEAPRO	Deploy within inner containment boom	DW Facility
Skimmer Power Pack (Aquaguard 35 Hydraulic)	4	SEAPRO	Use in conjuction with skimmer	DW Facility
Storage Bladder (Canflex FCB-25)	8	SEAPRO	Deploy near each skimmer	DW Facility
Responder	4	SEAPRO		DW Facility

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

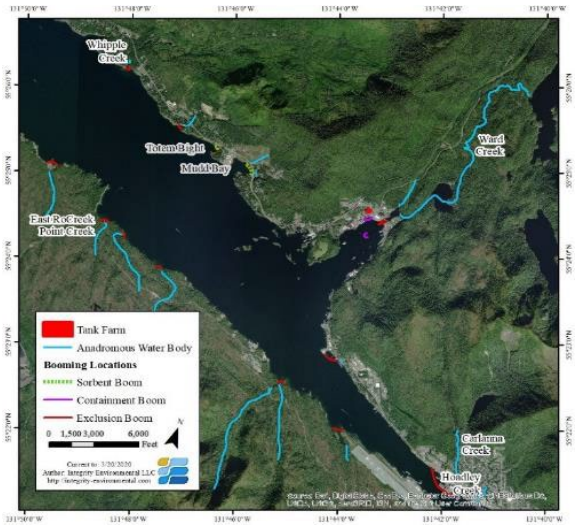
1. Incident Name	2. Operational Period		ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Diesel Scenario	From: 10-15, 0600	To: 10-16, 0600	ICS-204a CG

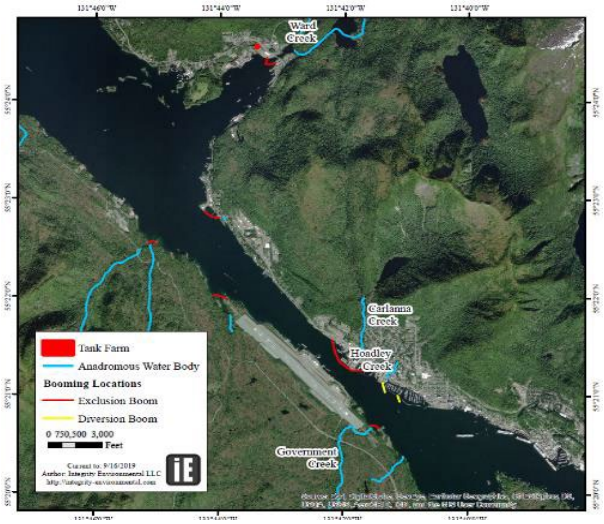
3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 3 ESA Protective Booming	TF3 Leader	DW Facility

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy exclusion or diversion boom at any threatened environmentally sensitive areas (ESAs) such as anadromous streams and/or boat harbors. Refer to the ICS-232 for specific strategies for named sensitive areas. Maintain boom throughout tide changes. Place and anchor sorbent boom at locations most likely to be impacted based on TF-6 and TF-7 findings. Protective boom will remain in place for as long as deemed necessary by the IMT. Potentially affected ESAs may change if the wind is southwest (below left) or northwest (below right).

See STAR Manual Section: B-III-1 - Booming basics
See STAR Manual Section: B-III-12 - Exclusion boom
See STAR Manual Section: B-III-13 - Deflection boom





Special Equipment / Supplies Needed

Type	Quantity		Equipment Details	Staging Area
Containment Boom (Foam, 8" x 12')	900 ft	SEAPRO	Deploy exclusion boom for Ward Creek and Whipple Creek	DW Facility
Anchor Systems (30/40 lb.)		SEAPRO		DW Facility
Sorbent Rolls (38" x 144')	2	DW	Deploy for passive recovery	DW Facility
Containment Boom (Foam, 8" x 12')	500 ft	SEAPRO	Use for exclusion or diversion booming	DW Facility
Containment Boom (Inflatable, 12" x 13")	490 ft	SEAPRO	Tidal seal boom	DW Facility
Skiff	1	SEAPRO		DW Facility
Responder	2	SEAPRO		DW Facility

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period		ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Diesel Scenario	From: 10-15, 0600	To: 10-16, 0600	ICS-204a CG

3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 4 Land Based Recovery	TF4 Leader	DW Facility

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy bladders near the DW facility away from the release. Using the vac truck, recover the release from the secondary containment area and from pooled areas on land in the spill path. Transfer recovered product to the two temporary storage bladders.

See STAR Manual Section: B-II-1 - Plume delineation, land
See STAR Manual Section: B-III-7 - On-land recovery
See STAR Manual Section: B-III-17 - Land-based storage & transfer of oily liquids

Special Equipment / Supplies Needed

Type	Quantity		Equipment Details	Staging Area
Vac Truck	1	Contract	Use to transfer the released product	DW Facility
Storage Bladder (Unitor 100 m^3)	2	SEAPRO	Used to store recovered product	DW Facility
BW Technologies Ultra 5 PID	2	SEAPRO	Air monitoring device	DW Facility
Responder	1	Contract	Operate vac truck	DW Facility
Responder	3	SEAPRO	Deploy bladders and assist recovery/transfer; conduct air monitoring	DW Facility

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

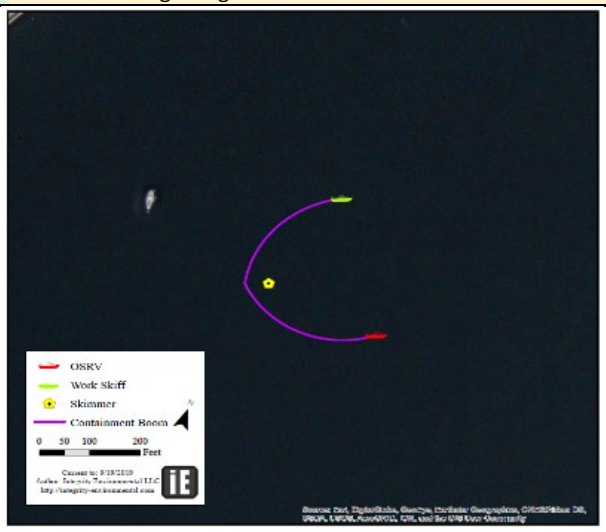
1. Incident Name	2. Operational Period			ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Diesel Scenario	From:	10-15, 0600	To: 10-16, 0600	ICS-204a CG

3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 5 On-Water Recovery	TF5 Leader	SEAPRO Ketchikan

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy free-oil recovery team upwind and up current of Refuge and Ward Coves. Deploy containment boom in a U configuration to contain and recover oil on the water. Deploy LORI 3 on the minibarge and the LORI 2 brush from the OSRV. Use on water temporary storage as needed for each recovery operation. DW work skiff will be redirected to this TF after completion of TF-1 activities.

See STAR Manual Section:	B-III-6 - On-water free-oil recovery
See STAR Manual Section:	B-III-8 - Diversion boom
See STAR Manual Section:	B-III-9 - Marine recovery
See STAR Manual Section:	B-III-16 - Marine-based storage & transfer of oily liquids
See STAR Manual Section:	B-III-19 - Towing alongside



Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Skiff (25' w/ 300 HP Outboard)	1	DW	Redeployment after completion of TF-1.	SEAPRO Ketchikan
Oil Spill Response Vessel (Bay Class)	1	SEAPRO		SEAPRO Ketchikan
Containment Boom (Inflatable, 14" x 16")	300 ft	SEAPRO		SEAPRO Ketchikan
Skimmer (LORI 3 Brush)	1	SEAPRO	Use with minibarge	SEAPRO Ketchikan
Skimmer (LORI 2 Brush)	1	SEAPRO	Use with OSRV	SEAPRO Ketchikan
Barge (Oil Response)	1	SEAPRO		SEAPRO Ketchikan
Storage Bladder (Unitor 1,000 m^3)	2	SEAPRO		SEAPRO Ketchikan
Responder	2	DW		SEAPRO Ketchikan
Responder	10	SEAPRO		SEAPRO Ketchikan

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

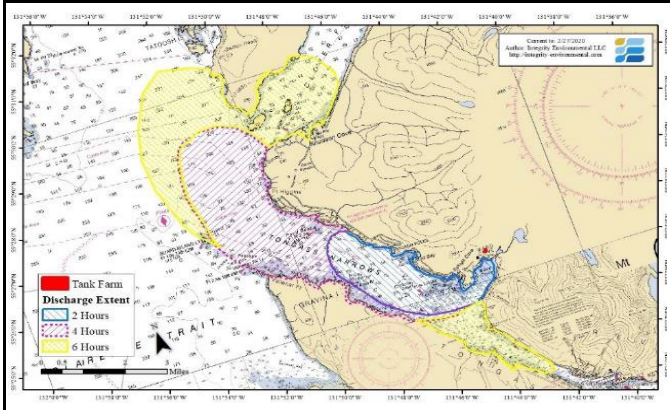
1. Incident Name	2. Operational Period			ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Diesel Scenario	From:	10-15, 0600	To: 10-16, 0600	ICS-204a CG

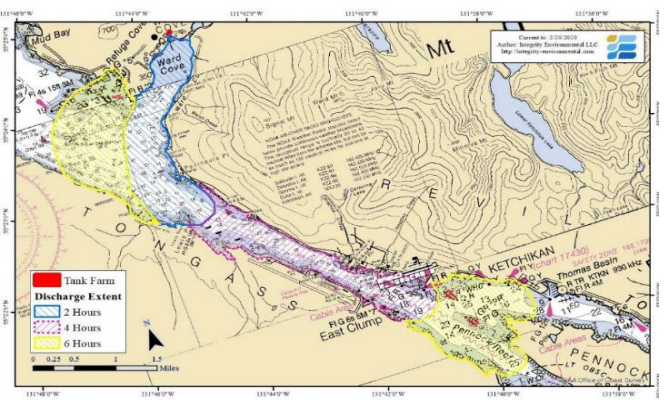
3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 6 Aerial Surveillance	TF6 Leader	DW Facility/Ketchikan Airport

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Deploy drone and/or helicopter to perform aerial surveillance of the on-water oil to assist with recovery, cleanup, and preventative booming efforts. Spill trajectory at hour 2, 4, and 6 without recovery operations with southeast winds (below left) and northwest winds (below right).

See STAR Manual Section: B-II-1 - Plume delineation, land
See STAR Manual Section: B-II-2 - Discharge tracking on water
See STAR Manual Section: B-II-3 - Aerial observations supporting nearshore operations





Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Drone (SplashDrone 4+)	1	SEAPRO	On-water spill tracking	DW Facility
Helicopter	1	Contract	Use if drone cannot complete survey	Ketchikan Airport
PPE (Mustang Suits)	3	SEAPRO		Ketchikan Airport
Responder	2	SEAPRO		DW Facility
Responder	1	Contract		Ketchikan Airport

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

Water operations - PFD and survival suit required for helicopter personnel.

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period		ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Diesel Scenario	From: 10-15, 0600	To: 10-16, 0600	ICS-204a CG

3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 7 Shoreline Assessment Team	TF7 Leader	SEAPRO Ketchikan

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Prepare shoreline and upland assessment implementation plan with IMT. Make accessability determinations based on findings from TF-6. Once on-water recovery efforts are completed, begin shoreline recovery based on approved assessment. SEAPRO work skiff will be redirected to this TF after completion of TF-3.

See STAR Manual Section: B-III-10 - Shoreside recovery
See STAR Manual Section: B-III-11 - Passive recovery

Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Skiff	1	SEAPRO	Redeployment after completion of TF-3.	SEAPRO Ketchikan
Responder	1	SEAPRO		SEAPRO Ketchikan
Responder	2	Agency		SEAPRO Ketchikan

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario					
1. Incident Name	**2. Operational Period**				**ASSIGNMENT LIST A ATTACHMENT**
KTN Bulk Facility Diesel Scenario	**From:**	10-15, 0600	**To:**	10-16, 0600	**ICS-204a CG**
3. Branch			**4. Division/Group/Staging**		
Refer to ICS-204			Refer to ICS-204		
5. Strike Team / Task Force / Resource (Identifier)			**6. Leader**	**7. Assignment Location**	
Task Force 8 Wildlife Assessment			TF8 Leader	WCG Pier	

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Prepare wildlife assessment with potential implementation of hazing techniques. Make accessability determinations and protection needs based on findings from TF-6. Report wildlife observations to environmental unit. SEAPRO work skiff will be redirected to this TF after completion of TF-3.

Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Skiff	1	SEAPRO	Redeployment after completion of TF-3.	WCG Pier
Responder	3	SEAPRO		WCG Pier
Responder	2	Contract	IBR under SEAPRO Contract	WCG Pier
Responder	1	DW		WCG Pier
Wildlife Hazing Kit	1	SEAPRO		WCG Pier

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	**Date / Time**	**11. Reviewed By**	**Date / Time**	**12. Reviewed By**	**Date / Time**
Planning Section		Operations Section		Unified Command	

ICS 204a Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period				ASSIGNMENT LIST A ATTACHMENT
KTN Bulk Facility Diesel Scenario	From:	10-15, 0600	To:	10-16, 0600	ICS-204a CG

3. Branch	4. Division/Group/Staging	
Refer to ICS-204	Refer to ICS-204	
5. Strike Team / Task Force / Resource (Identifier)	**6. Leader**	**7. Assignment Location**
Task Force 9 Waste Management	TF9 Leader	DW Facility/SEAPRO Ketchikan/FullCycle

8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations

Transfer recovered product from temporary storage to either different temporary storage or off-load directly to FullCycle for disposal.

See STAR Manual Section: B-III-17 - Land-based storage & transfer of oily liquids

See STAR Manual Section: B-III-18 - Pumping oily liquids

Special Equipment / Supplies Needed

Type	Quantity	Equipment Details		Staging Area
Vac Truck	1	Contract	Support TF-2	DW Facility
Storage - Tank Truck (4,500-gallon)	1	DW	Support TF-5	SEAPRO Ketchikan
Storage Bladder (Canflex CF-1000)	1	SEAPRO		FullCycle Facility
Storage Tank (Fastank 5 Portable Tank)	1	SEAPRO		FullCycle Facility
Responder	1	Contract		SEAPRO Ketchikan
Responder	1	DW		DW Facility

Special Environmental Considerations

Refer to ICS-204

Special Site Specific Safety Considerations

Refer to ICS-204

9. Other Attachments (as needed)

☐ Map / Chart ☐ Weather Forecast / Tides / Currents ☐ _____

10. Prepared By	Date / Time	11. Reviewed By	Date / Time	12. Reviewed By	Date / Time
Planning Section		Operations Section		Unified Command	

ICS 232 Ketchikan Bulk Facility Scenario

1. Incident Name	2. Operational Period		RESOURCES AT RISK
KTN Bulk Facility Diesel Scenario	**From:** 10-15, 0600	**To:** 10-16, 0600	**ICS 232-CG**

3. Environmentally Sensitive Areas and Wildlife Issues

Site #	Priority	Site Name and /or Physical Location	Site Issues
SE01-19-01a	1	Refuge & Ward Coves - Ward Creek & Whipple Creek	Fish, intertidal spawning, waterfowl, recreational use. Accessible via road.
SE01-19-01b	2	Refuge & Ward Coves - Mudd Bay & Totem Bight	Fish, intertidal spawning, waterfowl, recreational use. Accessible via road.
N/A	3	Endangered Species - Fish	Fin Whale, Humpback Whale, Stellar Sea Lion
N/A	4	Endangered Species - Birds	Short-Tailed Albatross
N/A	5	Surrounding anadromous streams	Fish, intertidal spawning, waterfowl, recreational use. Accessible via trail systems and water ways.
N/A	6	Immediate Shoreline Habitats	Gravel beaches, exposed tidal flats, and sheltered rocky shores.

Narrative

Deploy exclusion boom at the mouths of anadromous streams and water bodies listed in the Geographic Response Strategies. At the discretion of the Incident Commander, Operations Section Chief, and Oil Spill Response Organization/Primary Response Action Contractor, deploy exclusion boom at other anadromous streams in the area.

4. Archaeo-cultural and Socio-economic issues

Site #	Priority	Site Name and /or Physical Location	Site Issues
1	TBD	Landmarks, burial sites (not specified for protection)	Historic Properties
2	TBD	Habitat pens, water intakes	Commercial fisheries, hatcharies, and processors
3	TBD	Totem Bight, Refuge Cove	State Parks
4	TBD	Seaplane runways, Ketchikan International Airport	Airports
5	TBD	Ward Cove, Cruise Ship Pier, Refuge Cove Marina	Marinas/Boat Ramps
6	TBD	Miscellaneous	Waterfront Buildings

Narrative

The above list identify potential site categories of major concern in the local area. Consult with the on-scene coordinator and available agency resources for additional potential sites. All responders are instructed to report any cultural resources found during operations to Federal On-Scene Coordinator Historic Properties Specialist.

4. Prepared By	Date / Time
Environmental Unit Lead	

Note: Form ICS 232 will be written with direct input from resource agencies at the time of a spill. The above document is used for scenario reference.

OIL RECOVERY CALCULATIONS	
Total Adjusted RPS to Remain on Land (gallons)	**39,976**

Oil Recovery Table - Spill to Land								
Operational Period	**Task Force**		**Recovery Equipment**	**Quantity**	**EDRC per unit** (gal/day)		**Volume** (gallons)	
						Hours Operating	**Oil Recovered**	**Cumulative Oil Recovered**
1	Task Force 4	Land Based Recovery	Vac Truck	1	28,224	10	11,760	11,760
2	Task Force 4	Land Based Recovery	Vac Truck	1	28,224	12	14,112	25,872
3	Task Force 4	Land Based Recovery	Vac Truck	1	28,224	12	14,112	39,984

Total Adjusted RPS to Reach Water (gallons)	**359,784**

Oil Recovery Table - Spill to Water								
Operational Period	**Task Force**		**Recovery Equipment**	**Quantity**	**EDRC per unit** (gal/day)		**Volume** (gallons)	
						Hours Operating	**Oil Recovered**	**Cumulative Oil Recovered**
1	Task Force 2	Nearshore Recovery	Skimmer (Aquaguard RBS Triton 35)	4	47,796	8	63,728	63,728
1	Task Force 5	On-Water Recovery	Skimmer (LORI 3 Brush)	1	156,030	8	52,010	115,738
1	Task Force 5	On-Water Recovery	Skimmer (LORI 2 Brush)	1	104,034	8	34,678	150,416
2	Task Force 2	Nearshore Recovery	Skimmer (Aquaguard RBS Triton 35)	4	47,796	12	23,898	174,314
2	Task Force 5	On-Water Recovery	Skimmer (LORI 3 Brush)	1	156,030	12	78,015	252,329
2	Task Force 5	On-Water Recovery	Skimmer (LORI 2 Brush)	1	104,034	12	52,017	304,346
3	Task Force 2	Nearshore Recovery	Skimmer (Aquaguard RBS Triton 35)	4	47,796	12	23,898	328,244
3	Task Force 5	On-Water Recovery	Skimmer (LORI 3 Brush)	1	156,030	12	78,015	406,259
3	Task Force 5	On-Water Recovery	Skimmer (LORI 2 Brush)	1	104,034	12	52,017	458,276

TEMPORARY STORAGE CALCULATIONS	
Total Oil Recovered (gallons)	**498,260**

Operational Period	**Task Force**		**Storage Equipment**	**Quantity**	**Volume** (gallons)		
					Capacity	**Total Capacity**	**Cumulative Capacity**
1, 2, and 3	Task Force 2	Nearshore Recovery	Storage Bladder (Canflex FCB-25)	8	2,638	21,101	21,101
1, 2, and 3	Task Force 4	Land Based Recovery	Storage Bladder (Unitor 100 m^3)	2	26,418	52,836	73,937
1, 2, and 3	Task Force 5	On-Water Recovery	Storage Bladder (Unitor 1,000 m^3)	2	264,180	528,360	602,297
1, 2, and 3	Task Force 9	Waste Management	Storage Bladder (Canflex CF-1000)	1	1,000	1,000	603,296
1, 2, and 3	Task Force 9	Waste Management	Storage Tank (Fastank 5 Portable Tank)	1	1,197	1,197	604,493

SUMMARY	
Total Temporary Storage Capacity (gallons)	604,493
Total Oil Recovered (gallons)	498,260
Net (gallons)	106,233

Note: If net result is positive, there is sufficient storage for the response scenario.

3 Plan Appendix

The following documents are provided in the overall Plan Appendix:

Other

- Acronym List
- Helpful Links for Spill Response
- Bibliography
- Supporting Documentation
  - Spill Trajectory Model Development and Background
- Revision Log

3.1 Acronym List

The acronyms, in alphabetical order, used in this plan are defined below.

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
ADNR	Alaska Department of Natural Resources
CPLAN	Oil Discharge Prevention and Contingency Plan
DW	Delta Western, LLC
ESA	Environmentally Sensitive Area
GRS	Geographic Response Strategy
ICS	Incident Command System
IMT	Incident Management Team
MPH	Miles Per Hour
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
OSRO	Oil Spill Response Organization
PRAC	Primary Response Action Contractor
RPS	Response Planning Standard
SCAT	Shoreline Cleanup Assessment Technique
SMT	Spill Management Team
STAR Manual	Spill Tactics for Alaska Responders Manual
TF	Task Force
WMP	Waste Management Plan

3.2 Helpful Links for Spill Response

Alaska Regional Contingency Plan	https://dec.alaska.gov/spar/ppr/contingency-plans/response-plans/regional-contingency-plan/

ADEC STAR Manual	https://dec.alaska.gov/spar/ppr/response-resources/star-manual/
ADEC Spill Response Permits and Tools Page	https://dec.alaska.gov/spar/ppr/response-resources/permits-tool/
Area Plan References and Tools	https://dec.alaska.gov/spar/ppr/contingency-plans/response-plans/tools/
NOAA WebGNOME	https://gnome.orr.noaa.gov/

3.3 Bibliography

ADEC, 2014	Spill Tactics for Alaska Responders, March 2014. https://dec.alaska.gov/spar/ppr/response-resources/star-manual/ [accessed July 18, 2024]
Alaska Regional Response Team Wildlife Protection Committee, 2020	Wildlife Protection Guidelines for Oil Spill Response in Alaska, Version 2020.01, dated August 31, 2020. https://dec.alaska.gov/spar/ppr/contingency-plans/response-plans/public-review/wildlife-protection-guidelines/ [accessed July 30, 2024]
NMFS, 2017	Fisheries of the United States. https://www.fisheries.noaa.gov/resource/document/fisheries-united-states-2017-report [accessed July 18, 2024]
Ziccardi, M., Wilkin, S., Rowles, T., and Johnson, S., 2015	Pinniped and Cetacean Oil Spill Response Guidelines. U.S. Department of Commerce, NOAA. NOAA Technical Memorandum NMFS-OPR-52, 138 p.

3.4 Spill Trajectory Model Development and Background

The information below is designed to provide additional background information to describe how the spill trajectories presented in this Response Scenario and utilized by DW in the preparation of information presented in Section 3 of the Delta Western, LLC Ketchikan Bulk Facility CPLAN were generated. As this document is adopted by reference in the Delta Western, LLC Ketchikan Bulk Facility CPLAN, all bibliographic information is contained there.

NOAA's WebGNOME spill modeling website (https://gnome.orr.noaa.gov/) was used to prepare the spill trajectory maps included in the scenarios presented in Section 2.1 and 2.2 of this document.

When generating the spill trajectory maps, the manual set up function was used, and the following parameters were set before running the model:

Model Settings	Selected the applicable start time (i.e., 0600 Alaska Daylight Time) to align with the scenario Left all other items in this section set to the defaults
Map	• Selected the spill site on the map • Drew a polygon on the area of interest and a shoreline polygon was generated
Spill	• Selected point/line instantaneous release • Used the ADEC RPS as the amount released • Substance/Oil – uploaded the applicable ADIOS files for gasoline (Section 2.1) and diesel (Section 2.2) Left all other items in this section set to the defaults
Wind	• Selected point wind and placed marker on the map in the spill area • Adjusted wind direction and speed to align with the spill scenario
Water Properties	Selected the applicable average water temperature for the time of year in which the scenario occurs

Once all of the parameters were set, the model was run pausing at the 2-, 4-, and 6-hour marks; at each of these times, the distance that the release had traveled was measured.

In order to develop an accurate model, the wind direction has to be adjusted, and the model must be re-run multiple times to prevent the spill from accumulating on the nearby shorelines. The purpose of running the model is to determine the furthest extent of the release should no containment actions be taken.

The information gathered from running the model was then used to create polygons in ArcGIS showing the extent of the release at the three time increments (2, 4, and 6 hours after the spill).

The spill trajectory maps included in Sections 2.1 and 2.2 are for informational and planning purposes only and would not be relied upon in an actual spill event. The software's

predictions are based on mathematical models that may not fully account for real-world variability, including ocean currents, wind patterns, temperature fluctuations, etc.

As described in Section 1.5, the approach described above can be used in the event of a spill to track discharged oil on land or open water and forecast its expected points of shoreline contact.

3.5 Revision Log

The table below is used to document amendments to this document.

Revision Number	Month Year	Affected Pages	Changes Made	Associated CPLAN Revision Number
0	March 2025	All	Original Issuance	0