



EMERGENCY PREPAREDNESS PROGRAM

SERVICE OVERVIEW





EMERGENCY PREPAREDNESS PROGRAM

Ridgeline Response has developed a comprehensive Emergency Preparedness Program to allow our clients from the Oil & Gas, Electrical Utility, Transportation, Waste Management, Municipality and Government sectors to prepare themselves for emergency spill events.

Being prepared for a response will allow our clients and their emergency support teams to:

- Expedite source control, containment and recovery of the release
- Meet and exceed the various emergency preparedness regulatory requirements
- Reduce potential consequences of a release
- Reduce operational risk while minimizing the interruption of regular business
- Protect the organization's reputation with share holders, regulators, stakeholders, industry peers and the general public
- Gain stakeholder and regulatory confidence
- Reduce direct emergency response and indirect insurance coverage costs

PROGRAM COMPONENTS

Ridgeline has developed a comprehensive Emergency Preparedness Program consisting of the following components:

RISK EVALUATION

IN-FIELD ASSESSMENT/FACILITY AUDITS

EMERGENCY RESPONSE MANUALS AND GUIDANCE DOCUMENTS

SITE-SPECIFIC TACTICAL PLANNING

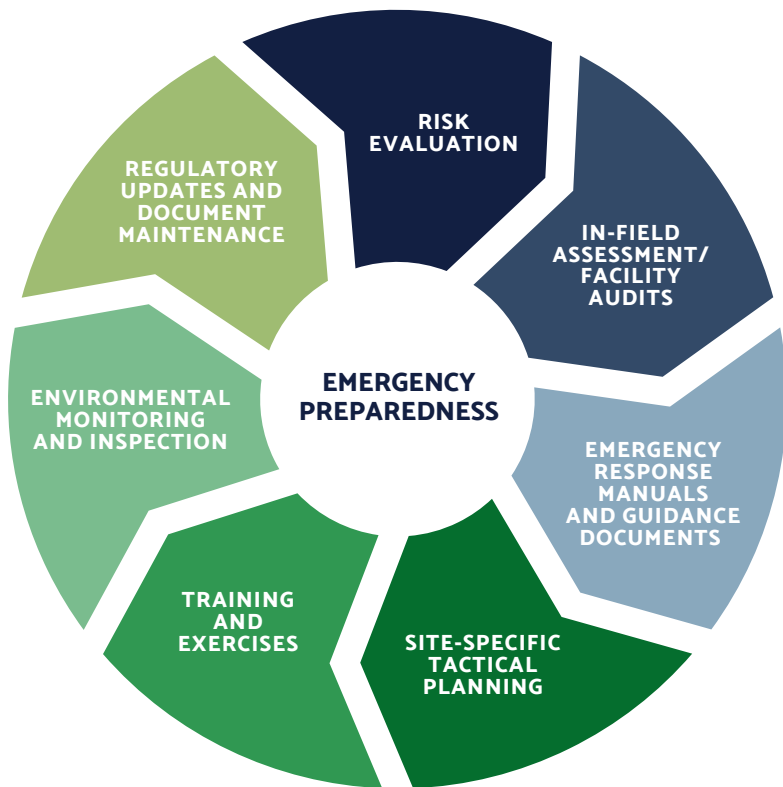
TRAINING AND EXERCISES

ENVIRONMENTAL MONITORING AND INSPECTION

REGULATORY UPDATES AND DOCUMENT MAINTENANCE



Each component falls into a continuous improvement cycle for preparedness:



Each component is modular and can be executed independently, or grouped with complimentary components while being customizable, enabling for easy integration into the client's existing resources.



COMPONENT DETAILS

RISK EVALUATION

- Review of current response documents and resources
- Develop risk criteria based on: client risk tolerances, considering proximity to receptors (such as water bodies, wetlands, residential areas, species at risk), production information, age or type of infrastructure, erosion, products produced, public perception, etc.
- Desktop review of facilities and assigning a “Risk Ranking” based on consequence and likelihood
- Identify and select “High Risk” sites for additional preparedness measures such as site-specific tactical planning, in-field assessments, audits, or exercises





COMPONENT DETAILS

IN-FIELD ASSESSMENTS/ FACILITY AUDITS

- Inspect current Site setup, condition of facility, equipment, containment, surface water management and documentation
- Verify desktop information and Risk Evaluation assumptions
- Identify receptors and resources at risk
- Assessment of site setting:
 - Abiotic (topography, stream flow, slopes, land use, accessibility, workspace, etc.)
 - Biotic (vegetation, wildlife, livestock, etc.)
- Identify, inspect and document containment and recovery options, potential tactical control points and other areas for response operations
- Identification of practical and effective site/scenario specific response tactics
- A summary of the inspection and recommendations for risk mitigation or contingency planning are provided following the in-field assessment
- Work collaboratively on recommendations to enhance overall preparedness
 - Implementation of small mitigation measures that may have a large impact on risk or response

- UAV overflight to obtain high resolution aerial imagery for use in depicting response access and tactical deployment



EMERGENCY PREPAREDNESS FIELD INSPECTION FORM

Site Setup (Wellsite, Production, Terminal)		Suitable	Action Suggested	N/A	Comments:
1.	Access – suitable for response traffic (note approximate travel time from nearest population center)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Facility Signage – site identified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Pipeline Signage – underground lines marked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Apparent Condition – facilities clean and in good working order	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Housekeeping – no garbage, debris, or other refuse onsite	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Maintenance – vegetation mowed, weeds controlled, snow cleared, fencing in good repair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Leak detection – leak detection equipment or process in place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Inspection – site is continually manned, frequently accessed, or not frequently accessed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Site Setup (Pipeline)		Suitable	Action Suggested	N/A	Comments:
11.	Access – suitable for response traffic (note approximate travel time from nearest population center)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12.	Pipeline Signage – underground lines marked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13.	Apparent Condition – no visible damage, erosion, subsidence, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14.	Maintenance – vegetation mowed, weeds controlled, snow cleared, fencing in good repair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15.	Housekeeping – no garbage, debris, or other refuse onsite	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16.	Public/Livestock – access by public or livestock is controlled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

COMPONENT DETAILS

EMERGENCY RESPONSE MANUALS AND GUIDES

- Focused on general tactics pertaining to: initial response activation, containment and recovery, response management and operations, regulatory reporting requirements, and environmental protection.
- Complimentary to existing Emergency Response Plans (ERP), company programs and other internal procedures
- Enhances corporate ERP with specific information for field supervisors and operators
- Tailored to align with the organization's culture and existing resources
- Establishes a consistent base level of knowledge to be referenced when developing more advanced tactics, training and exercises
- Demonstrates to stakeholders and industry that the organization understands the fundamentals of emergency spill response requirements and tactics
- Can be utilized to facilitate training curriculum, and employee competency building, evaluation and sign off
- Can be used to support regulatory applications, information requests, and business proposals

* Upon request, we would be happy to provide you with specific document examples and/or schedule an initial consultation meeting to discuss your initial requirements



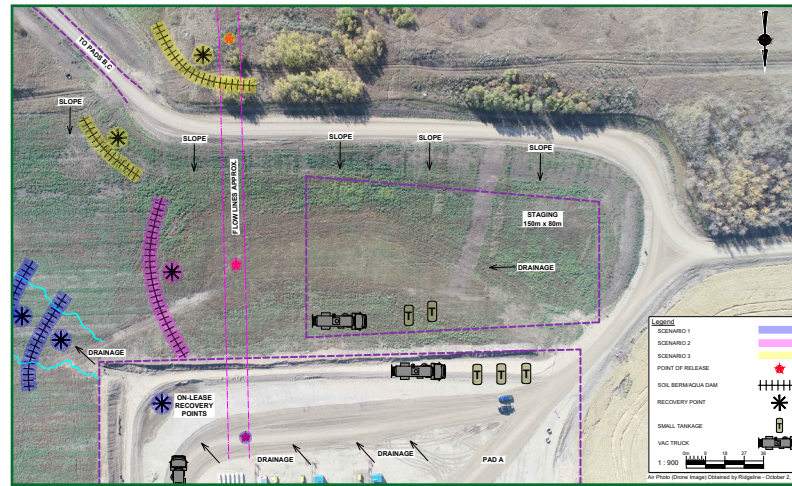
- An emergency planning zone (EPZ) is a geographical area surrounding a well, pipeline, or facility containing hazardous product that requires specific emergency response planning by the licensee. Ridgeline Response can ensure that licensees are compliant with Directive 71 and the surrounding areas are prepared in the event of a release.

COMPONENT DETAILS

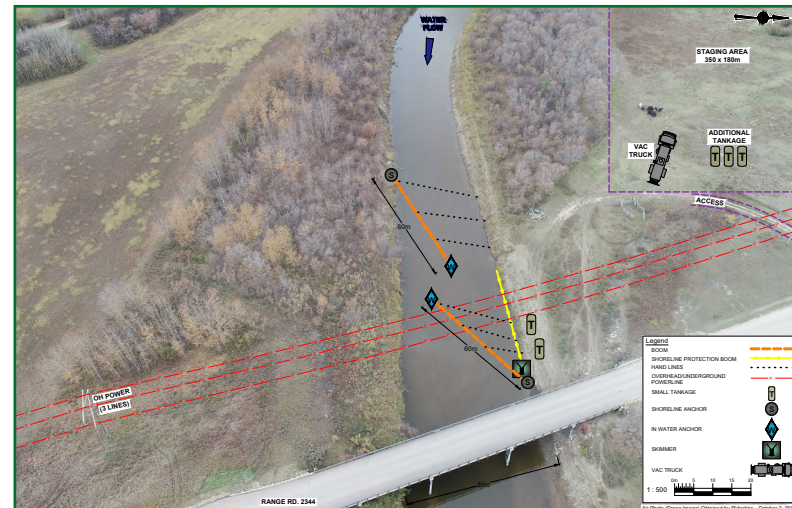
SITE-SPECIFIC TACTICAL PLANNING

- Site-specific tactics and equipment deployment configurations for initial response
 - Based on results of risk evaluation and in-field assessments and facility audits
 - This is your site-specific emergency response “play book” that will allow you to ensure that you understand the response plan prior to the release and have a reference document to follow during the release
- Operations focused, easy to understand and execute tactics for initial containment and recovery actions
- Demonstrates to regulators and stakeholders that the organization is prepared to respond to a release at the subject site
- Can be used in the development of exercises and training opportunities

EXAMPLE OF A MULTI-SCENARIO BASED TACTICAL DEPLOYMENT PAGE



EXAMPLE OF A SINGLE SCENARIO BASED TACTICAL DEPLOYMENT PAGE



COMPONENT DETAILS

SITE-SPECIFIC TACTICAL PLANNING

- Use of unmanned aerial vehicle (drone) imagery to provide realistic visual representation of the immediate site and surrounding area
- Site-specific tactical planning includes, but is not limited to:
 - Depiction of tactical deployment options and potential scenarios
 - Directions and logistics information
 - Staging areas and site access
 - Equipment required with sources
 - Key resources at risk and receptors
 - Environmental and waste management info
 - Response best practices

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EXAMPLE RESPONSE EQUIPMENT/RESOURCES PAGE

Recommended Personnel		Recommended Response Equipment <i>A Listing of Equipment and Service Companies Can Be Found In Appendix B of this Document</i>		
Number	Description	Quantity	Description	Source
2	Vac Truck Operator	180 meters	River Boom	- WCSS Area VR-1 55th Ave & 55th Street Lloydminster - WCSS Area U Sea-Can Bromby Welding (Hardisty)
7	Responder, Labor	8	Shoreline anchors	- WCSS Area VR-1 55th Ave & 55th Street Lloydminster
1	Responder, Supervision	2	In water (Danforth or Sarca) anchors	- WCSS Area VR-1 55th Ave & 55th Street Lloydminster
2	Boat Operator	2	Pump	- WCSS Area VR-1 55th Ave & 55th Street Lloydminster
		As required	Hose	- WCSS Area VR-1 55th Ave & 55th Street Lloydminster
		1	Skimmer	- WCSS Area VR-1 55th Ave & 55th Street Lloydminster - WCSS Area U Sea-Can Bromby Welding (Hardisty)
		1	Wildlife Deterrence Trailer	- Ridgeline Response Edmonton office - WCSS Area I/J: DWC Oilfield Construction & Maintenance Ltd., 10499 David Road NW Acheson, AB
		10	PFD	- WCSS Area VR-1 55th Ave & 55th Street Lloydminster
		2	Porta tanks	- WCSS Area VR-1 55th Ave & 55th Street Lloydminster
		2	Vac Truck	
		1	Jon boat	

COMPONENT DETAILS

TRAINING AND EXERCISES

- Complementary to existing training and competency programs
- Builds internal response and field team's capability and confidence
- Identifies areas for improvement and potential areas for other enhancements to emergency preparedness or training
- Can be based on site-specific tactical plans, emergency response manuals and guidance documents, or other potential subjects and scenarios
- Training may include:
 - Notifications, communication (internal and external), and stakeholder engagement
 - Containment and recovery tactics
 - Response best practices
 - Equipment deployment and maintenance
 - Environmental aspects of a response
 - Training on site-specific tactical plans
- Exercises can be tabletop and discussion based, field deployments and operational based, or functional and incident management team based
- Exercise services include:
 - Program and requirements development
 - Exercise planning
 - Facilitation and participation
 - Documentation, evaluation, after action and improvement planning
- Exercise planning can include provision of:
 - Exercise Plan
 - Scenario and player manuals, controller and evaluator handbooks
 - Briefing and presentations
 - Feedback forms
 - After Action Report and Improvement Plan

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COMPONENT DETAILS

ENVIRONMENTAL MONITORING AND INSPECTION

- Supports and verifies compliance with permits and regulations
 - May be periodic/scheduled or continuously on-site throughout the duration of the project
 - Identification of potential concerns before they develop into non-compliances
- Recommendation of construction mitigation measures
- Daily reporting and documentation of activities and conditions observed
- Accelerated response
 - Initial environmental responder onsite or nearby in the event of an emergency
 - Assistance with initial containment and recovery operations
 - Required containment and recovery equipment that was indicated in the permit will be provided and ready for deployment from our spill response trailer.



COMPONENT DETAILS

REGULATORY UPDATES AND DOCUMENT MAINTENANCE

- Ongoing management of regulatory requirements
 - Subscription to Ridgeline yearly update
 - Always know what your regulatory obligations are and how they may impact your business
- Summary of the applicable regulatory changes
- Summary of potential impact on:
 - Reduce operational risk while minimizing the interruption of regular business
 - Operational procedures
 - Regulatory process requirements and permitting
 - Existing plans, documents, manuals and forms
- Updates and changes to plans and processes (as required)
 - Keeps documents current and compliant with the evolving regulations





SUMMARY

Ridgeline Response has developed a comprehensive Emergency Preparedness Program to allow our clients from the Oil & Gas, Electrical Utility, Transportation, Waste Management, Municipality, and Government sectors to prepare themselves for emergency spill events.

Ridgeline Preparedness Program Materials:

- Are modular and can be used together or independently
- Identify and address areas of Risk
- Integrate with existing ERP and corporate management programs
- Are a cost effective way to prepare for response

QUESTIONS?

Please provide any questions or requests for additional information to Donny Bidniak, Vice President at dbidniak@ridgelinecanada.com or (780) 988-5455.

www.ridgelinecanada.com