North Slope Drilling Waste Storage Facility
Solid Waste Application for Coverage Under
General Permit SWGPDRILL-23

Alaska Department of Environmental Conservation
Solid Waste Program

DEC Office Only:
Facility Name: _____
Authorization #: _____

Instructions:
This application is for a facility, designed to store Resource Conservation and Recovery Act (RCRA) exempt drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas or geothermal energy (drilling waste) or RCRA (non-exempt) non-hazardous oily waste, to be covered under Solid Waste General Permit SWGPDRILL-23, Drilling Waste Storage Facility for Waste Generated on the North Slope.
In the application, the term **"facility"** refers to all land, structures, other appurtenances, and improvements on land used for treatment, storage, or disposal of solid waste.
Please include all the applicable data for each section regardless if it has been previously submitted. If the required information is not applicable, please explain why.
The application must be signed and sealed by a registered engineer, in accordance with 18 AAC 60.210(c).
For new facilities prepare a draft application with a list of any questions and schedule a meeting with the Anchorage DEC Solid Waste Office.

Section 1. Property Information			
Facility Name:			
Field and Pad Name:			
Legal Property Description:			
Section:	Township:	Range:	Meridian:
General Description of Location			
Latitude:	Longitude:		
Landowner:	Contact Name:		
Address:	City:	State:	Zip:
Email:	Phone:		

Section 2. Contact Information			
Permit Applicant (Co. or Entity)**:**			
Contact Name:			
Address:	City:	State:	Zip:
Email:	Phone:		
Type of Entity:	☐ Government	☐ Corporation	☐ Other:
State of Incorporation or Registration:		Alaska Business License Number:	
IRS Tax ID Number:			
Facility Owner (if different than applicant)**:**			
Contact Name:			
Address:	City:	State:	Zip:
Email:	Phone:		
Facility Operator (if different than applicant)**:**			
Contact Name:			
Address:	City:	State:	Zip:
Email:	Phone:		
Agent/Consultant:			
Contact Name:			
Address:	City:	State:	Zip:
Email:	Phone:		

Section 3. Fees A check or money order for the annual fee listed in 18 AAC 60.700(a) Table E-4 must be submitted with a first time application. If not included, the application will be returned to the applicant. **Annual fees will continue to be billed each calendar year until DEC approves closure of the facility.**		
This application is for:	☐ **A New Facility**	☐ **Coverage Renewal**

Section 4. Waste Handling and Processing Information	
1.	List the approximate quantities of waste you expect to receive at the site each year:

Quantity ☐ Tons ☐ Cubic Yds.	Waste
	Drilling Waste
	RCRA Non-Hazardous Oily Waste
	Other Wastes:

2.	List disposal location(s) for the stored waste.

3. List any treatment methods that may be employed **at the storage facility** based on the type of waste.	
Waste type	**Treatment**

Section 5. Location Information	Please identify the specific attachment page that addresses each requested item	
1.	**Property Ownership and Location Information** [18 AAC 60.210]	**Identify Attachment**
	a. Attach a copy of the deed or another legal document that identifies the landowner.	
	b. If the applicant is not the landowner, attach a written and notarized statement signed by the landowner showing that the landowner consents to the facility, or a copy of any lease agreement that clearly states the same.	
2.	**Surface Water Information** [18 AAC 60.210; 18 AAC 60.225; 18 AAC 60.315, 18 AAC 60.410]	
	a. Provide information on the potential for surface water run-on into the facility.	
	b. Provide information on the potential for sediment carried by runoff from the facility to impact surface water.	
	c. If the facility is located in a floodplain, attach documentation to demonstrate the landfill will not restrict the flow of the flood, reduce the temporary storage capacity of the floodplain, and is designed to protect against washout of the solid waste.	

Section 5. Location Information Continued		Identify Attachment
3.	**Location Maps** Attach maps and/or aerial photographs as needed to show the following. You may submit maps that show more than one of the required items. For example, one map can show property boundaries, wetland and surface water locations, etc. [18 AAC 60.040; 18 AAC 60.210; 18 AAC 60.315; 18 AAC 60.320, 18 AAC 60.410]	
	a. Location of the storage facility and property boundary.	
	b. Location and flow direction of surface water bodies and streams, and the location of containment or diversion structures, within 500 feet of the property boundary.	
	c. Location of any drinking water sources within 500 feet of the facility.	
	d. Location of any wetlands within 500 feet of the facility property boundary.	
	e. Location of permafrost or discontinuous permafrost within 500 feet of the facility property boundary.	
	f. Location of any 100-year floodplain in the area.	
	g. Location of any documented earthquake faults or unstable areas within 200 feet of the facility property boundary.	

Section 6. Facility Design Facility Design Drawing must be submitted for each of the items identified below.		Identify Attachment
1.	**Facility map(s) which show site conditions, including:** [18 AAC 60.210; 18 AAC 60.220; 18 AAC 60.225; 18 AAC 60.410; 18 AAC 60.420; 18 AAC 60.432]	
	a. All existing and planned waste storage areas.	
	b. Demonstration that the waste will be located at least 50 feet from the property boundary	
	c. All planned excavations before waste cell construction	
	d. All roads, ditches, trenches, fences, berms, or other features associated with the waste site.	
2.	**Construction detail drawings <u>and</u> cross sections** that show: [18 AAC 60.210, 18 AAC 60.225, 18 AAC 60.227, 18 AAC 60.255, 18 AAC 60.432]	
	a. Any planned excavations before waste cell construction	
	b. Details on underlying earthen materials, location and presence of permafrost.	
	c. Details on insulation or other material installed to protect permafrost.	
	d. Liner construction details and specs.	
	e. Any liner penetrations.	
	f. Liner protection structure details. A physical barrier that will protect the liner from physical damage will be required for all new facilities or renovations of existing facilities.	
	g. Leak detection devices	
	h. Any thermal monitoring devices installed at facility.	
	i. Any water monitoring devices installed at the facility	
	j. Storm water drainage structures, culverts and other surface water or leachate control devices.	

Section 6. Facility Design Continued		Identify Attachment
3.	**Conceptual Closure Drawings** [18 AAC 60.210; 18 AAC 60.490]	
	a. Show projected final site grades after the waste and facility have been removed.	
4.	**Design calculations, data, and documentation** must include the following with supporting calculations. [18 AAC 60.210; 18 AAC 60.227; 18 AAC 60.410]	
	a. An estimate (including calculations) of the maximum inventory of waste that can be stored onsite at the facility at any given time.	
	b. Printouts of inputs, assumptions and outputs from any computer model used to support the facility design.	
	c. Liner Quality Assurance plan (for new facilities or renovations) including leak testing.	
	d. Documentation showing that the permafrost will remain frozen to the greatest extent practical.	

Section 7. Operations Plan The operations plan should be a separate document that provides sufficient detail and information that an operator could use it to perform all necessary tasks for day-to-day operation of the facility. Please include a reference page and section of the operations plan where each item is addressed.		
1.	**Access control** [18 AAC 60.210; 18 AAC 60.220]	page/section
	a. Access to the facility will be controlled, including gates, fences, berms or other means of preventing access; hours of operation; signage; and other control measures.	
	b. Access and onsite roads will be kept passable and safe for vehicles year round.	
2.	**Waste acceptance and handling policy** [18 AAC 60.210; 18 AAC 60.240; 18 AAC 60.420]	
	b. Description of how waste arrives and is unloaded at the treatment facility.	
	c. Waste screening procedures to ensure no prohibited or unacceptable wastes are accepted at the facility.	
	d. Describe how waste is placed in cell without damage to the cell liner	
	e. Any signage placed at the facility.	
	f. Include a copy of the paperwork required to deposit waste at the facility.	
	g. Describe actions that will be taken to remove prohibited waste.	
3.	**Liquid Management** [18 AAC 60.432]	
	a. Describe how pumpable liquids will be removed.	
	b. Describe how they two-foot freeboard requirement will be marked within the cell	
4.	**Waste removal and disposal** [18 AAC 60.210; 18 AAC 60.430]	
	a. Describe how waste will be removed from the cell without damaging the liner	
	b. Include copies of the paperwork required to haul waste to disposal site	

Section 8. Monitoring Plan The monitoring plan must include sufficient detail to allow all monitoring to be completed in full compliance with the applicable regulations and permit conditions. It must include the following information and a statement for each monitoring type that explains why the monitoring is being done.		
1.	**Visual monitoring plan** [18 AAC 60.210; 18 AAC 60.800(a)]	**page/section**
	a. Description of the procedures for visual monitoring of the facility.	
	b. Checklist or visual monitoring form including all applicable items in 18 AAC 60.800(a).	
2.	**Surface water monitoring plan** [18 AAC 60.210; 18 AAC 60.810]	
	a. Information about topography and surface water flow at the site.	
	b. A detailed map showing permanent sampling site locations. Must include at least three within 200 feet of the facility. Shallow wells may be installed if adequate ponds are not located within 200 feet of the site, or alternative sites approved by DEC.	
	c. Identification of and information about sampling sites, including an explanation of why each site was chosen.	
	d. Specific information about sampling frequency and schedules.	
	e. List field tests to be performed, including, but no limited to: pH, temperature, turbidity, specific conductivity, redox, and a sediment sheen test.	
	f. List the analyses that will be performed for the following: Arsenic, Barium, Calcium, Chromium, Lead, Magnesium, Nickel, Zinc, Sodium, Diesel Range Organics, and Benzene, Ethylbenzene, Toluene, Xylenes, Total Aromatic Hydrocarbons (TAH), and any other analytes sampled for at the facility.	
	g. Detailed monitoring procedures as outlined in 18 AAC 60.810(e).	
	h. A Quality Assurance and Quality Control Plan providing specific details about sampling and testing methodology.	
	i. A statement that monitoring reports will be submitted to DEC no later than November 30 each year.	
3.	**Thermal Monitoring Plan** (if required) [18 AAC 60.210; 18 AAC 60.227]	
	a. Identification and information about the construction and placement of thermal monitoring wells.	
	b. A detailed map showing thermal monitoring device or well locations.	
	c. Specific information about monitoring frequency and schedules.	
	d. Information about equipment and procedures used for thermal monitoring.	
	e. A Statement that thermal monitoring results will be submitted to DEC no later than November 30 each year	
4.	**Other Required Monitoring Plan** [18 AAC 60.215]	
	For any other monitoring required by DEC at the facility, include a plan that provides specific information on the process, procedures, equipment, and quality assurance procedures required for the monitoring process.	

Section 9. Closure Plan and Cost Estimate It is understood that the closure plan submitted with the permit application will be conceptual and may change throughout the active life of the facility. A detailed closure plan must be submitted at least 90 days prior to closure and approved by DEC. The conceptual closure plan must include the following information.		
1.	**Description of the closure process** [18 AAC 60.210; 18 AAC 60.245; 18 AAC 60.270; 18 AAC 60.430; 18 AAC 60.490]	**page/section**
	a. A description and timeline for the removal of all remaining waste from the storage facility, and removal of the facility.	
2.	**Financial information** [18 AAC 60.210; 18 AAC 60.265]	
	a. The total present-day equivalent cost estimate for an independent contractor (do not assume onsite use of any material or machinery) to close the facility, dispose the maximum possible inventory of waste at another facility, and perform any required corrective measures.	
	b. Demonstration of the mechanism of financial responsibility to cover the cost of closing the facility and post-closure care which meets the requirements of 18 AAC 60.265.	

Section 10. specific Conditions Your signature below indicates that you agree to each of the following conditions regarding construction, operations, closure, and post closure care of the facility.	
1.	The facility meets the requirements of the General Permit for a Drilling Waste Storage Facility for Waste Generated on the North Slope.
2.	Waste storage as this facility is limited to RCRA-exempt waste from oil and gas exploration, development, enhancement, or production activities; and RCRA non-exempt, non-hazardous waste.
3.	Waste stored at the site is generated on the North Slope, Alaska, which includes those portions of the state north of 68° latitude.
4.	The facility is designed and intended to operate for more than one year.
5.	The facility is intended for storage only, all waste will be disposed at another permitted location.
6.	Visual monitoring will be completed monthly, and any permit or regulatory violations or any damage to the facility repaired and reported to DEC immediately.
7.	Surface water monitoring will be conducted annually in the months of July, August, or September, and a report submitted to DEC no later than November 30 of each year.

I certify under penalty of perjury, that all of the information and exhibits in this application are true, accurate, and complete and I agree to the specific conditions above.

Printed Name:	Title:
Signature:	Date:

All applications must be signed as follows per 18 AAC 15.030:

- **Corporations:** A principal executive officer, an officer that is no lower than the level of vice president, or a duly authorized representative who is responsible for the overall management of the project or operation.
- **Municipal, state, federal, or other public entity:** A principal executive officer, ranking elected official, or duly authorized employee.
- **Partnerships:** A general partner.
- **Sole proprietorship:** The proprietor