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Apache Resources: MV2017E0015	Yukon Government – this application
<b>Project Summary:</b>	<b>Project Summary:</b>
<p>The purpose of these Applications is for the use of an existing barge landing site, located off the Liard River, and road to support the well abandonment and decommissioning activities at the Kotaneelee Field in the Yukon. Activities at the Landing will include the following:</p> <ul style="list-style-type: none"> <li>• maintenance of the barge landing site; and</li> <li>• use of the road to transport equipment and supplies between the Kotaneelee Field and the barge landing.</li> <li>•</li> </ul>	<p>With these Applications, YG EMR aim to 1) construct and/or upgrade a barge landing site, depending on its current state, located off the Liard River and 2) use the Kotaneelee road for well abandonment and decommissioning activities at the Kotaneelee Field gas field in the Yukon. Planned activities include:</p> <ul style="list-style-type: none"> <li>• Construction and maintenance of the barge landing site; and</li> <li>• using the road to transport equipment and supplies between the Kotaneelee Field and the landing.</li> </ul>
<p><b>The scope of the project components applicable to this screening includes the following:</b></p> <ul style="list-style-type: none"> <li>• Use of equipment, vehicles and machines;</li> <li>• Operation and maintenance of an existing barge landing site and access road;</li> <li>• Installation and maintenance of erosion control measures; and</li> <li>• Other related activities, including Reclamation.</li> </ul>	<p><b>The scope of the project components applicable to this screening includes the following:</b></p> <ul style="list-style-type: none"> <li>• Use of equipment, vehicles and machines;</li> <li>• Operation and maintenance of an existing barge landing site and access road;</li> <li>• Installation and maintenance of erosion control measures; and</li> <li>• Other related activities, including Reclamation.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Land Use Eligibility</b> - Section 18 Mackenzie Valley Land Use Regulations</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Land Use Eligibility</b> - Section 18 Mackenzie Valley Land Use Regulations</li> </ul>
<p><b>Disposition Number (s)</b> Apache holds a number of well licences and field facility licences for the Kotaneelee Field issued by the Yukon Department of Energy, Mines &amp; Resources.</p>	<p><b>Disposition Number (s)</b>                  The Government of Yukon must abandon the inactive sour gas well L-38 in the Kotaneelee field in Yukon Territory as it inherited this well when the company became insolvent in 2016.</p>
<p><b>Location and Area:</b> Apache did not conduct the land-use operation on any lands not designated in the complete application.</p>	<p><b>Location and Area:</b> Government of Yukon shall not conduct this land-use operation on any lands not designated in the complete application.</p>
<p><b>Principal Activities (related to scoping):</b></p> <ul style="list-style-type: none"> <li>• Maintenance</li> <li>• Operation</li> <li>• Repair,</li> <li>• Erosion control,</li> </ul> <p><b>Principal Development Components (related to scoping):</b></p> <ul style="list-style-type: none"> <li>• Site restoration</li> <li>• Automobile, Aircraft or Vessel Movement</li> </ul>	<p><b>Principal Activities (related to scoping):</b></p> <ul style="list-style-type: none"> <li>• Maintenance/construction</li> <li>• Operation</li> <li>• Repair,</li> <li>• Erosion control,</li> </ul> <p><b>Principal Development Components (related to scoping):</b></p> <ul style="list-style-type: none"> <li>• Site restoration</li> <li>• Automobile, Aircraft or Vessel Movement</li> </ul>
<p><b>NTS topographic map sheet numbers:</b> 95B</p>	<p><b>NTS topographic map sheet numbers:</b> 95B</p>

<b>Latitude / longitude and UTM system:</b> 60° 1' 23" N, 123° 51' 56" W and 60° 1' 35" N, 123° 50' 37" W	<b>Latitude / longitude and UTM system:</b> 60.025° N - 125.844°W and 60.025°N, -125.844°W
<b>Land Status (consultation information)</b> Commissioner's/Territorial Lands	<b>Land Status (consultation information)</b> Commissioner's/Territorial Lands
<b>Nearest community and water body:</b> Fort Liard and Liard River	<b>Nearest community and water body:</b> Hamlet of Fort Liard and Liard River
<b>Public concern:</b> There is no likelihood that the proposed development might be a cause of public concern.	<b>Public concern:</b> The proposed development is unlikely to raise significant public concern as it is recognized that the well required abandonment to industry standards. Further, locals have expressed they like having the barge landing available for activities on the west side of the Liard River.
<b>Fuel Storage:</b> Apache will not place any Fuel Storage Containers or Tanks within 100 metres of the Ordinary High Water Mark of any Watercourse.	<b>Fuel Storage:</b> Government of Yukon will not place any Fuel Storage Containers or Tanks within 100 metres of the Ordinary High Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector.
<b>PHYSICAL - CHEMICAL EFFECTS</b>	<b>PHYSICAL - CHEMICAL EFFECTS</b>
<b>IMPACT</b>	<b>IMPACT</b>
<b>1) Ground Water:</b> water quality changes.  <b>Mitigation:</b> The increased use of the Kotaneelee Barge Landing and Access Road to support abandonment and decommissioning activities at the Kotaneelee Field could lead to additional ground water quality changes if any fuel or chemicals are leaked. Appropriate spill kits to be available and response procedures to be carried out as per the Spill Contingency Plan. Conditions relating to any chemicals or toxic materials are included in the draft Permit and conditions relating to waste management and watercourses are included in the draft Licence to mitigate concerns relating to water quality changes.	<b>1) Ground Water:</b> water quality changes.  <b>Mitigation:</b> The increased use of the Kotaneelee Barge Landing and Access Road for abandonment and decommissioning activities at the Kotaneelee Field may pose risks to groundwater quality due to potential fuel or chemical leaks. To address this, spill kits and response procedures will be implemented according to the Spill Contingency Plan. The draft Permit includes conditions for handling chemicals and toxic materials, while the draft Licence outlines waste management and watercourse protections to mitigate water quality concerns.
<b>2) Surface Water.</b> water quality changes:  <b>Mitigation</b> The increased use of the Kotaneelee Barge Landing and Access Road to support abandonment and decommissioning activities at the Kotaneelee Field could lead to additional ground water quality changes if any fuel or chemicals are leaked. Appropriate spill kits to be available and response procedures to be carried out as per the Spill Contingency Plan. Conditions relating to any chemicals or toxic materials are included in the draft Permit and conditions relating to waste management and watercourses	<b>2) Surface Water.</b> water quality changes:  <b>Mitigation</b> The increased use of the Kotaneelee Barge Landing and Access Road for abandonment and decommissioning at the Kotaneelee Field may risk groundwater quality if fuel or chemicals leak. Spill kits and response procedures will be provided according to the Spill Contingency Plan. The draft Permit includes regulations for handling chemicals and toxic materials, while the draft Licence addresses waste management and watercourse protections to help mitigate water quality concerns.

are included in the draft Licence to mitigate concerns relating to water quality changes.

**3) Noise:** noise in/near water.

**Mitigation**

The increased use of the Kotaneelee Barge Landing to support abandonment and decommissioning activities at the Kotaneelee Field could lead to an increase in noise in/near water as there will be an increase in barge frequency, up to 100 barge trips (50 loading and 50 unloading) on the Liard River. Noise will be localized and of a temporary nature. Effects will be limited to the duration of the project activities.

**4) Noise:** noise increase

**Mitigation**

The increased use of the Kotaneelee Barge Landing and Access Road to support abandonment and decommissioning activities at the Kotaneelee Field could lead to an increase in noise. Noise will be transient (along access), local and temporary (access and barge landing).

**5) Land:** soil contamination

**Mitigation:**

The increased use of the Kotaneelee Barge Landing and Access Road to support abandonment and decommissioning activities at the Kotaneelee Field could lead to soil contamination if any fuel or chemicals are leaked. Appropriate spill kits to be available and response procedures to be carried out as per the Spill Contingency Plan. Conditions relating to any chemicals or toxic materials are included in the draft Permit and conditions relating to waste management and watercourses are included in the draft Licence to mitigate concerns relating to water quality changes.

**6) Land:** soil compaction and settling:

**Mitigation.**

The increased use of the Kotaneelee Barge Landing and Access Road to support abandonment and decommissioning activities at the Kotaneelee Field could lead to an increase in

**3) Noise:** noise in/near water.

**Mitigation**

The increased use of the Kotaneelee Barge Landing for abandonment and decommissioning at the Kotaneelee Field may raise noise levels in and around the water due to up to 24 barge trips (10 in and 14 out) on the Liard River. This noise is expected to be localized and temporary, affecting only the duration of the project activities.

**4) Noise:** noise increase

**Mitigation**

The heightened use of the Kotaneelee Barge Landing and Access Road for abandonment and decommissioning activities at the Kotaneelee Field may result in increased noise levels. This noise is expected to be transient, localized, and temporary, primarily occurring along the access routes and at the barge landing.

**5) Land:** soil contamination

**Mitigation:**

The increased activity at the Kotaneelee Barge Landing and Access Road for decommissioning could risk soil contamination from potential fuel or chemical leaks. To address this, spill kits and response procedures will be implemented according to the Spill Contingency Plan. The draft Permit includes conditions for handling chemicals and toxic materials, while the draft Licence outlines waste management and watercourse protections to mitigate water quality concerns.

**6) Land:** soil compaction and settling:

**Mitigation.**

The increased use of the Kotaneelee Barge Landing and Access Road for decommissioning activities may result in greater soil compaction. The Proponent is required to use only the lands specified in the Permit and Licence.

soil compaction. The Proponent shall only use lands included in the Permit and Licence.

**7) Land:** destabilization/erosion:

**Mitigation:**

The increased use of the Kotaneelee Barge Landing and Access Road to support abandonment and decommissioning activities at the Kotaneelee Field could lead to erosion issues. Conditions relating to erosion are included in the Permit and Licence to mitigate concerns relating to erosion.

**1) Air/climate/atmosphere**

**Mitigation**

Vehicles and heavy equipment will emit greenhouse gases but are necessary to conduct the project.

**BIOLOGICAL ENVIRONMENT**

**IMPACT**

**1) Species introduction**

**Mitigation**

With an increase in movement of vehicles from the Kotaneelee Field to the Kotaneelee Barge Landing and onto the Fort Liard Large Landing, invasive species can be introduced into new areas. GNWT-ENR has recommended the use of a wheel wash station to remove any potential invasive seeds by washing the incoming/outgoing truck wheels in Fort Liard which was agreed to by the Applicant.

**SOCIAL AND ECONOMIC**

**IMPACT**

**Affect Other Land Use Operations.**

**Mitigation:**

The increased use of the Kotaneelee Barge Landing and Access Road to support abandonment and decommissioning activities at the Kotaneelee Field could affect other land use operators in the area. The Proponent is aware that other groups and individuals using the Landing for purposes unrelated to the Kotaneelee Field and

**7) Land:** destabilization/erosion:

**Mitigation:**

Increased activity at the Kotaneelee Barge Landing and Access Road for decommissioning could cause erosion issues. The Permit and Licence include conditions aimed at mitigating these erosion concerns.

**1) Air/climate/atmosphere**

**Mitigation**

Vehicles and heavy equipment will emit greenhouse gases but are necessary to conduct the project.

**BIOLOGICAL ENVIRONMENT**

**IMPACT**

**1) Species introduction**

**Mitigation**

The increased vehicle movement from the Kotaneelee Field to the Kotaneelee Barge Landing and Fort Liard could introduce invasive species to new areas. In response, GNWT-ENR recommended installing a wheel wash station in Fort Liard to remove potential invasive seeds from truck wheels, a recommendation that the Yukon government together with its contractors would implement.

**SOCIAL AND ECONOMIC**

**IMPACT**

**Affect Other Land Use Operations.**

**Mitigation:**

The increased use of the Kotaneelee Barge Landing and Access Road for decommissioning activities may impact other land use operators in the area. The Proponent recognizes the presence of other groups and individuals utilizing the Landing for unrelated purposes and is committed to collaborating with stakeholders to ensure appropriate space sharing.

<p>will work with stakeholders to share the space appropriately.</p> <p><b>Cultural and Heritage:</b> effects to aboriginal lifestyle</p> <p><b>Mitigation:</b> The increased use of the Kotaneelee Barge Landing and Access Road to support abandonment and decommissioning activities at the Kotaneelee Field could affect other land use operators in the area. The Proponent is aware that other groups and individuals using the Landing for purposes unrelated to the Kotaneelee Field and will work with stakeholders to share the space appropriately.</p> <p style="text-align: center;"><b>MANAGEMENT PLANS AND MONITORING PROGRAMS</b></p> <ul style="list-style-type: none"> <li>• Waste Management Plan</li> <li>• Spill Contingency Plan</li> <li>• Engagement Plan</li> <li>• Sediment and Erosion Control Plan</li> </ul>	<p><b>Cultural and Heritage:</b> effects to aboriginal lifestyle</p> <p><b>Mitigation:</b> The increased use of the Kotaneelee Barge Landing and Access Road for decommissioning activities may also affect Aboriginal lifestyles. The Proponent acknowledges this impact and will engage with stakeholders to share the space effectively, ensuring that cultural and heritage considerations are respected.</p> <p style="text-align: center;"><b>MANAGEMENT PLANS AND MONITORING PROGRAMS</b></p> <ul style="list-style-type: none"> <li>• Waste Management Plan</li> <li>• Spill Contingency Plan</li> <li>• Engagement Plan</li> <li>• Erosion and Sedimentation Control Plan</li> </ul>
<p><b>Hydrocarbons, glycols, and other hazardous material:</b> Apache will not store any hydrocarbons, chemicals or hazardous materials on the access road or barge landing.</p> <p>All equipment associated with the abandonment activities conducted fuel transfers at the Kotaneelee Field located in the Yukon Territory. Fuel transfer that occurred near the Landing was the refueling of a jet boat, which was done using appropriate spills response materials.</p>	<p><b>Hydrocarbons, glycols, and other hazardous material:</b> The Government of Yukon will not be storing any hydrocarbons, chemicals or hazardous materials on the access road or barge landing.</p> <p>All equipment associated with the abandonment activities will conduct fuel transfers at the Kotaneelee Field located in the Yukon Territory. The only fuel transfer that may occur near the Landing is the refueling of a jet boat, which will be conducted at the Liard River using a jerry can. Appropriate spills response materials will be readily available when refueling the jet boat.</p>
<p><b>Equipment:</b> Two tracked excavators and D8R or similar bulldozer dozer was used during the maintenance work. The heaviest piece of equipment that will be transported to and from the Kotaneelee Field is a service rig, which is typically, 43 tonnes and exerts &lt; 18 psi ground pressure.</p> <p>All equipment were inspected prior to loading onto the barge.</p>	<p><b>Equipment:</b> For use in the NWT: D8R bulldozer, excavator; trucks (pick-up): For use in Yukon (transport only through the NWT via the Kotaneelee Rd) Vac and Water Trucks, Winch truck Oilfield service rig, Crane/picker, Wireline truck, Trailers, Cement mixer and pumper.</p> <p>All equipment will be inspected prior to loading onto the barge and all equipment traveling in the Kotaneelee field will be limited to existing roads.</p>

