

INTERACTIONS TABLE									
Element	Interaction (Y/N)	Description of Interaction(s) (If no interaction is predicted, provide justification)	Status of Element-Specific Study or Survey (Complete, Underway, Date Expected, or N/A)	Description of Potential Effects	Mitigation Will Be Implemented to Resolve Potential Adverse Effect (Y/N)	Specify the Mitigation	Description of Residual Effects after Mitigation	Description of the Cumulative Effects	Monitoring Plan/Details
Physical and Meteorological Environment	N	The Project is not in an area of unstable terrain, erosion-prone land, or permafrost. The Project will not affect the meteorological environment.	N/A	None	N	N/A	None	None	N/A
Soil and Soil Productivity	N	Project activities will be completed on an existing graveled site, with previously-disturbed soils with no planned ground disturbance. The Project is not predicted to interact with soil and soil productivity.	N/A	None	N	N/A	None	None	N/A
Vegetation	N	Project activities will be completed on an existing graveled site, with no vegetation ¹ . Any weed occurrences are managed under the facility's existing Operating and Maintenance Procedures. The Project is not predicted to interact with vegetation.	N/A	None	N	N/A	None	None	N/A
Water Quality and Quantity	N	There are no watercourses within 30 m of the Project. There are no documented water wells ² within 200 m of the Project. Water withdrawals are not required for the Project activities. The Project is not predicted to interact with water quality and quantity.	N/A	None	N	N/A	None	None	N/A
Fish and Fish Habitat	N	There are no fish bearing watercourses within 30 m of the Project. Water withdrawals are not required for Project activities. The Project is not predicted to interact with fish and fish habitat.	N/A	None	N	N/A	None	None	N/A
Wetlands	N	Project activities will be contained entirely on the existing terminal site. The area within the terminal site where activities will be undertaken is approximately 10 m from the nearest wetland ¹ . Standard erosion and sediment control measures outlined in TEML's Environmental Guidelines for Construction will be implemented, where warranted. As a result, the Project is not predicted to interact with wetlands.	N/A	None	N	N/A	None	None	N/A

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Wildlife and Wildlife Habitat	N	Project activities will take place within the existing fenced terminal site, which has already been disturbed and is actively used. The site has negligible value for potential wildlife habitat'. Equipment traffic will be minimal (1 tractor trailer and 1 picker truck, approximately six week's duration). Access to the site will be gained via an existing all-weather access road. All other existing operations will continue at the site, which includes a heavy truck terminal. The Project is not predicted to interact with wildlife and wildlife habitat.	N/A	None	N	N/A	None	None	N/A
Species at Risk, or Species of Special Status, and related habitat	N	Project activities are not predicted to interact with species at risk. See the vegetation and wildlife and wildlife habitat elements for further information.	N/A	None	N	N/A	None	None	N/A
Air Emissions and Greenhouse Gas (GHG) Emissions	Y	Project activities are not expected to change atmospheric conditions at the existing terminal site. Emissions of criteria air contaminants and GHGs from equipment are anticipated but will be temporary (2 vehicles for approximately six weeks), transient and negligible in magnitude. There are limited predicted interactions with air and greenhouse gas emissions.	N/A	None	N	N/A	None	None	N/A
Acoustic Environment	N	Overall noise generated at the Project site will not be changed due to the Project activities. Noise generated by equipment and vehicles during Project activities is anticipated, but will be temporary (2 vehicles for approximately six weeks) and negligible in magnitude.	N/A	None	N	N/A	None	None	N/A
Human Occupancy and Resource Use	N	Project activities will occur within the fence line of an existing terminal. The land is already held by TEML. Disturbance to other land users during Project activities is not anticipated. The Project is not predicted to interact with human occupancy and resource use.	N/A	None	N	N/A	None	None	N/A

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Heritage Resources	N	Project activities will occur within the fence line of an existing terminal site, which has been previously disturbed. The Project is not predicted to interact with heritage resources.	N/A	None	N	N/A	None	None	N/A
Navigation and Navigation Safety	N	Project activities will not be undertaken in or near navigable waterways.	N/A	None	N	N/A	None	None	N/A
Aboriginal Traditional Land and Resource Use	N	Project activities will occur within the fence line of an existing terminal site. The land is already held by TEML and is used for industrial purposes. Disturbance to other land users during construction is not anticipated. The Project is not predicted to interact with traditional land and resource use.	N/A	None	N	N/A	None	None	N/A
Socio and Cultural Well-Being	N	The Project has a limited scope, small workforce, and short duration (approximately six weeks). The Project is not predicted to interact with social and cultural well-being.	N/A	None	N	N/A	None	None	N/A
Human Health or Aesthetics	N	Project activities will occur on an existing terminal site, which has been previously disturbed. Interactions with air quality, noise and water quality and quantity are not predicted. As a result, the Project is not predicted to interact with human health and aesthetics.	N/A	None	N	N/A	None	None	N/A
Infrastructure and Services	N	The Project has a limited in scope, small work force (approximately 12 workers) and short duration of approximately six weeks. No new access roads or construction camps are required for this Project. The Project is not predicted to interact with infrastructure and services.	N/A	None	N	N/A	None	None	N/A
Employment and Economy	N	The Project has a limited scope, relatively small workforce (approximately 12 workers), and short duration (approximately six weeks). There are limited predicted interactions with employment and economy.	N/A	None	N	N/A	None	None	N/A

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Accidents and Malfunctions	Y	There is the potential for unanticipated spill, rupture or hazardous materials release, fire, vehicle accident, and damage to existing infrastructure.	N/A	<p>A spill, rupture or hazardous materials release could occur during Project activities due to improper handling, use or storage.</p> <p>Fire could occur during Project activities due to explosion, lightning or other natural event.</p> <p>A vehicle accident could occur during Project activities during movement of vehicles to and from the Project site or on-site.</p> <p>Damage to existing pipelines and/or facilities near the Project site could occur during Project activities.</p>	Y	<p>Spills, Ruptures and Hazardous Materials Release</p> <ul style="list-style-type: none">• Conduct regular maintenance as outlined in the Operations and Maintenance Manual• Guidelines for Spill Prevention and Management are outlined in TEML's Environmental Guidelines for Construction document.• Guidelines for the safe handling, storage, use and disposal of potentially hazardous materials are provided in the Waste Storage and Waste Transportation Sections of TEML's Operations and Maintenance Policy.• Maintain appropriate spill equipment at all worksites. Assess the risk potential for site-specific spills to determine the appropriate type of response equipment to be stored onsite and suitable location for storage.• Following a leak, rupture or hazardous materials release, implement the Emergency Response Plan and the Spill Response Plan.• Report spills immediately to the TEML Construction Manager or designate and the Environmental Inspector. <p>Fire</p> <ul style="list-style-type: none">• Guidelines for fire prevention and control are outlined in TEML's Environmental Guidelines for Construction document.• Follow the measures identified within the project-specific Environmental Protection Plan and/or Emergency Response Plan, if prepared, in the event of an accidental fire.• All activity project personnel and Contractors' vehicles will be equipped with firefighting equipment in accordance with applicable regulations.	None	None	Monitoring /Inspection will occur during Project activities.

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						<ul style="list-style-type: none">• Ensure all motorized equipment carries a fully charged fire extinguisher with inspection documentation.• Ensure that exhaust and engine systems of equipment are in good working condition and inspect undercarriages periodically to ensure that grasses do not accumulate.• Do not leave vehicles idling for extended periods of time when the fire hazard is high.• Ensure that personnel are made aware of proper disposal methods for welding rods, cigarette butts and other hot or burning material. Vehicle Accident <ul style="list-style-type: none">• Utilize multi-passenger vehicles for the transport of construction crews to/from the facility, where practical, to minimize air emissions and potential for wildlife mortality.• Confine construction equipment and vehicles to the designated construction footprint, temporary work space, existing public roads and approved temporary access roads to reduce potential environmental impacts.• Adhere to posted speed limits on access roads to reduce the risk of collisions with wildlife. Damage to Existing Pipelines and/or Facilities <ul style="list-style-type: none">• Prior to beginning activities, survey the site and flag nearby above and below ground utilities.			

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Effects of the Environment on the Project	N	Project activities are not predicted to be affected by the environment due to the location of the Project on an existing site and short duration of activities (approximately six weeks).	N/A	None	N	N/A	None	None	N/A
NOTE: TEML confirms that all environmental mitigation noted in the above table is included in TEML's Corporate Environmental Guidelines for Construction, the Emergency Response Plan, Spill Response Plan, and the Operations and Maintenance Manual standards for the Project.									
REFERENCES: ¹ Saskatchewan Ministry of Parks, Culture and Sport (SMPCS). 2012. Developers' Online Screening Tool http://www.pcs.gov.sk.ca/SensitiveLocations . Accessed October 19, 2016. ² Saskatchewan Water Security Agency (WSA). 2016. Water wells information database. Available online at: https://gis.wsask.ca/html5A/Index.html . Accessed October 19, 2016.									