Net Pipelines ACE	$0

Enter the requested data into the light blue cells
Dark grey cells are intentionally blank.

red font indicates that there is not an existing base case assumption

Small (<14")

Land Use Categorization			Length of Pipe - Oil (km)	Length of Pipe - Gas (km)	Length of Pipe - Other Commodity (km)	Total Pipeline Length (km)	Abandonment Method Assumption: Abandon In-Place (%)	Abandonment Method Assumption: Pipe Removal (%)	Abandon In-Place (km)	Pipe Removal (km)	Land Access ($/km)	Purging & Cleaning ($/km): Oil	Purging & Cleaning ($/km): Gas	Purging & Cleaning ($/km): Commodity	Abandonment In-Place ($/km)	Pipeline Removal ($/km)	Land Remediation ($/km): Oil	Land Remediation ($/km): Gas	Land Remediation ($/km): Commodity	Land Restoration ($/km)	Cost - By Land Use
Agricultural		Cultivated				0.0 km	80%	20%	0.0 km	0.0 km											$0
		Non-Cultivated				0.0 km	80%	20%	0.0 km	0.0 km											$0
		With Special Features				0.0 km	0%	100%	0.0 km	0.0 km											$0
Existing Developed Lands		Higher Density				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Lower Density				0.0 km	100%	0%	0.0 km	0.0 km											$0
Prospective Future Development		Industrial				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Commercial				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Residential				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Timber Harvesting Areas				0.0 km	0%	100%	0.0 km	0.0 km											$0
Protected Areas						0.0 km	100%	0%	0.0 km	0.0 km											$0
Non-Developed Lands		Native Prairie				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Forested Land				0.0 km	80%	20%	0.0 km	0.0 km											$0
Crossings		Watercourses				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Wetlands & Peatlands				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Railways				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Paved Roads and Highways				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Gravel Roads				0.0 km	100%	0%	0.0 km	0.0 km											$0
Total Length of Pipeline System by Size			**0.0 km**	**0.0 km**	**0.0 km**	**0.0 km**			**0.0 km**	**0.0 km**											
		Contingency (%)																			
		Total Salvage Value of Removed Small Pipe																			$0
		Net Cost per Category									**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**

Medium (14" to 24")

Land Use Categorization			Length of Pipe - Oil (km)	Length of Pipe - Gas (km)	Length of Pipe - Other Commodity (km)	Total Pipeline Length (km)	Abandon In-Place (%)	Pipe Removal (%)	Abandon In-Place (km)	Pipe Removal (km)	Land Access ($/km)	Purging & Cleaning ($/km): Oil	Purging & Cleaning ($/km): Gas	Purging & Cleaning ($/km): Commodity	Abandonment In-Place (Segmentation) ($/km)	Pipeline Removal ($/km)	Land Remediation ($/km): Oil	Land Remediation ($/km): Gas	Land Remediation ($/km): Commodity	Land Restoration ($/km)	Cost - By Land Use
Agricultural		Cultivated				0.0 km	80%	20%	0.0 km	0.0 km											$0
		Non-Cultivated				0.0 km	80%	20%	0.0 km	0.0 km											$0
		With Special Features				0.0 km	0%	100%	0.0 km	0.0 km											$0
Existing Developed Lands		Higher Density				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Lower Density				0.0 km	100%	0%	0.0 km	0.0 km											$0
Prospective Future Development		Industrial				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Commercial				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Residential				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Timber Harvesting Areas				0.0 km	0%	100%	0.0 km	0.0 km											$0
Protected Areas						0.0 km	100%	0%	0.0 km	0.0 km											$0
Non-Developed Lands		Native Prairie				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Forested Land				0.0 km	80%	20%	0.0 km	0.0 km											$0
Crossings		Watercourses				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Wetlands & Peatlands				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Railways				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Paved Roads and Highways				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Gravel Roads				0.0 km	100%	0%	0.0 km	0.0 km											$0
Total Length of Pipeline System			**0.0 km**	**0.0 km**	**0.0 km**	**0.0 km**			**0.0 km**	**0.0 km**											
		Contingency																			
		Total Salvage Value of Removed Medium Pipe																			$0
		Net Cost per Category									**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**

Large (>24")

Land Use Categorization			Length of Pipe - Oil (km)	Length of Pipe - Gas (km)	Length of Pipe - Other Commodity (km)	Total Pipeline Length (km)	Abandon In-Place (%)	Pipe Removal (%)	Abandon In-Place (km)	Pipe Removal (km)	Land Access ($/km)	Purging & Cleaning ($/km): Oil	Purging & Cleaning ($/km): Gas	Purging & Cleaning ($/km): Commodity	Abandonment In-Place (Segmentation) ($/km)	Pipeline Removal ($/km)	Land Remediation ($/km): Oil	Land Remediation ($/km): Gas	Land Remediation ($/km): Commodity	Land Restoration ($/km)	Cost - By Land Use
Agricultural		Cultivated				0.0 km	80%	20%	0.0 km	0.0 km											$0
		Non-Cultivated				0.0 km	80%	20%	0.0 km	0.0 km											$0
		With Special Features				0.0 km	0%	100%	0.0 km	0.0 km											$0
Existing Developed Lands		Higher Density				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Lower Density				0.0 km	100%	0%	0.0 km	0.0 km											$0
Prospective Future Development		Industrial				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Commercial				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Residential				0.0 km	0%	100%	0.0 km	0.0 km											$0
		Timber Harvesting Areas				0.0 km	0%	100%	0.0 km	0.0 km											$0
Protected Areas						0.0 km	100%	0%	0.0 km	0.0 km											$0
Non-Developed Lands		Native Prairie				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Forested Land				0.0 km	80%	20%	0.0 km	0.0 km											$0
Crossings		Watercourses				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Wetlands & Peatlands				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Railways				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Paved Roads and Highways				0.0 km	100%	0%	0.0 km	0.0 km											$0
		Gravel Roads				0.0 km	100%	0%	0.0 km	0.0 km											$0
Total Length of Pipeline System			**0.0 km**	**0.0 km**	**0.0 km**	**0.0 km**			**0.0 km**	**0.0 km**											
		Contingency																			
		Total Salvage Value of Removed Large Pipe																			$0
		Net Cost per Category									**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**

Net Special Treatment ACE	$0

Enter the requested data into the light blue cells
Dark grey cells are intentionally blank.

Special Treatment - Length of Pipe Requiring Fill Small (<14")		Total Distance of Pipe Requiring Fill (km)	Fill Assumption: Abandon in Place - No Fill (%)	Fill Assumption: Abandon in Place - Fill (%)	Unit Costs for Filling Pipe by Crossing Type ($/km of fill)	Total Cost by Crossing Type
Crossings	Watercourses		100%	0%		$0
	Wetlands/Peatlands		100%	0%		$0
	Railways		0%	100%		$0
	Paved Roads & Highways		0%	100%		$0
	Gravel Roads		0%	100%		$0
	Utilities (buried)		100%	0%		$0
	Contingency (%)					
	TOTAL	0.0 km				$0

Special Treatment - Length of Pipe Requiring Fill Medium (14" to 24")		Total Distance of Pipe Requiring Fill (km)	Fill Assumption: Abandon in Place (no fill)	Fill Assumption: Abandon in Place (Fill)	Unit Costs for Filling Pipe by Crossing Type ($/km of fill)	Total Cost by Crossing Type
Crossings	Watercourses		100%	0%		$0
	Wetlands/Peatlands		100%	0%		$0
	Railways		0%	100%		$0
	Paved Roads & Highways		0%	100%		$0
	Gravel Roads		0%	100%		$0
	Utilities (buried)		0%	100%		$0
	Contingency (%)					
	TOTAL	0.0 km				$0

Special Treatment - Length of Pipe Requiring Fill Large (>24")		Total Distance of Pipe Requiring Fill (km)	Fill Assumption: Abandon in Place (no fill)	Fill Assumption: Abandon in Place (Fill)	Unit Costs for Filling Pipe by Crossing Type ($/km of fill)	Total Cost by Crossing Type
Crossings	Watercourses		100%	0%		$0
	Wetlands/Peatlands		100%	0%		$0
	Railways		0%	100%		$0
	Paved Roads & Highways		0%	100%		$0
	Gravel Roads		0%	100%		$0
	Utilities (buried)		0%	100%		$0
	Contingency (%)					
	TOTAL	0.0 km				$0

Net Above Ground Facilities ACE:	$0

Enter the requested data into the light blue cells
Dark grey cells are intentionally blank.

Unit Costs for Restoration and Remediation at Meter Stations, Pump Stations and Compressor Stations by Land-Use			Meter Stations				Pump Stations				Compressor Stations			
			Meter Stations - Footprint in Square Metres (m^2)	Meter Stations - Land Restoration ($/$m^2$)	Meter Stations - Land Remediation ($/$m^2$)	Meter Station Land Restoration and Remediation Total Cost - by land use	Pump Stations - Footprint in Square Metres (m^2)	Pump Stations - Land Restoration ($/$m^2$)	Pump Stations - Land Remediation ($/$m^2$)	Pump Station Land Restoration and Remediation Total Cost - by land use	Compressor Stations - Footprint in Stations (m^2)	Compressor Stations - Land Restoration ($/$m^2$)	Compressor Stations - Land Remediation ($/$m^2$)	Compressor Station Land Restoration and Remediation Total Cost - by land use
Land Use Categorization	Agricultural	Cultivated				$0				$0				$0
		Non-Cultivated				$0				$0				$0
		With Special Features				$0				$0				$0
	Existing Developed Lands	Higher Density				$0				$0				$0
		Lower Density				$0				$0				$0
	Prospective Future Development	Industrial				$0				$0				$0
		Commercial				$0				$0				$0
		Residential				$0				$0				$0
		Aboriginal Land Claims Areas				$0				$0				$0
		Timber Harvesting Areas				$0				$0				$0
	Protected Areas					$0				$0				$0
	Non-Developed Lands	Native Prairie				$0				$0				$0
		Forested Land				$0				$0				$0
		Contingency (%)												
		TOTAL	**0 m²**			**$0**	**0 m²**			**$0**	**0 m²**			**$0**

Removal of Above Ground Facilities (type of unit)	Total Units	$/unit	Contingency (%)	Total Cost
Processing Plants (by MMcf)				$0
Oil Terminal & Storage Facilities (by bbl)				$0
Compressors (by MW)				$0
Meter stations (by Number of stations)				$0
Pumps by Horse Power (HP)				$0
Total Removal Costs				**$0**
Total Salvage Value				
Net Removal Costs				**$0**

Post-Abandonment Total	$0

Real Return on Funds for calculating Present Value	1.50%

	Type of Expense	Number	Unit	Unit Cost	Unit	Annual Total ($/year)	Year Zero Value For Entire Period (2017 $)
Annual Monitoring Costs	Aerial Patrols (Flights)		Flights/year		$/flight	$0	**$0**
	Signage Maintenance (Days)		Days/year		$/day	$0	**$0**
	Environmental Remediation of Disturbed Areas, Years 1-5 (Events)		Days/year		$/day	$0	**$0**
	Environmental Remediation of Disturbed Areas, Years 6-10 (Events)		Days/year		$/day	$0	**$0**
	Database Maintenance				$/year	$0	**$0**
	Property Taxes & Insurance				$/year	$0	**$0**
	Security				$/year	$0	**$0**
	Management Fee				% of total		**$0**
	Total Requirement to Fund Post-Abandonment Monitoring						**$0**

	Post Abandonment Other		Period Start (year)	Period End (year)	Estimated Annual Frequency of Events per Kilometre (events/km)	Remaining Pipeline Length (km)	Annual Number of Events (#)	Length of Pipe Removed per Event (km/event)	Cost per Event ($/event)	Annual Cost (Nominal $)	Year Zero Value For Entire Period (2017 $)
Post Abandonment Time Frame	Period 1	Event - requiring pipe removal	1	5		0.0 km				$0	$0
		Event - pipe remains	1	5						$0	$0
		Period Totals on Annual Basis					0			$0	$0
	Period 2	Event - requiring pipe removal	6	10		0.0 km				$0	$0
		Event - pipe remains	6	10						$0	$0
		Period Totals on Annual Basis					0			$0	$0
	Period 3	Event - requiring pipe removal	11	40		0.0 km				$0	$0
		Event - pipe remains	11	40						$0	$0
		Period Totals on Annual Basis					0			$0	$0
	Period 4	Event - requiring pipe removal	41	80		0.0 km				$0	$0
		Event - pipe remains	41	80						$0	$0
		Period Totals on Annual Basis					0			$0	$0
	Period 5	Event - requiring pipe removal	81	140		0.0 km				$0	$0
		Event - pipe remains	81	140						$0	$0
		Period Totals on Annual Basis					0			$0	$0
	Period 6	Event - requiring pipe removal	141	260		0.0 km				$0	$0
		Event - pipe remains	141	260						$0	$0
		Period Totals on Annual Basis					0			$0	$0
	Period 7	Event - requiring pipe removal	261	1000		0.0 km				$0	$0
		Event - pipe remains	261	1000						$0	$0
		Period Totals on Annual Basis					0			$0	$0
	Total Requirement to Fund Post-Abandonment Events										**$0**
	Remaining Pipe in Year 1000		0								

Abandonment Cost Summary	Pipeline Length	Costs by Category
Abandonment Activities (excluding Contingency)	**0.0 km**	**$0**
Engineering & Project Management		$0
Land Access		$0
Purging and Cleaning		$0
Land Remediation		$0
Land Restoration		$0
Pipeline Abandonment-in-Place (excluding Contingency)	**0.0 km**	**$0**
Segmentation		$0
Special treatment	0.0 km	$0
Pipeline Removal (excluding Salvage & Contingency)	**0.0 km**	**$0**
Above-ground facilities (excluding Salvage & Contingency)		**$0**
Post Abandonment		**$0**
Post Abandonment Monitoring		$0
Post Abandonment Other		$0
Contingency		**$0**
Pipelines (incl. Special Treatment)		$0
Above Ground Facilities		$0
Salvage		**$0**
Removed Pipe		$0
Above Ground Facilities		$0
Total Abandonment Cost Estimate		**$0**
Total Salvage Value		**$0**
Net Abandonment Cost Estimate		**$0.00**