

Infiltration Potential and Surface Water Runoff				
Average Annual Precipitation (mm): 450-500			Soil Texture at surface: Coarse	
Notes: Application includes conversion of hogs to beef feeder calves, so both current and proposed livestock are listed above.				
Solid Manure Storage Facility (SMSF) #1				<input type="checkbox"/> Not Applicable
SMSF Facility #1 Name: Open pens (2 existing) - Existing, lined with roller compacted concrete in November 2019				
Liner Type: roller compacted concrete		Runoff control: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Run-on Control: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Liner Thickness (m): 0.15	Storage Dimensions (m): L: 2/3x97=65 W: 37		Storage Area (m ²): 2405	Depth below grade (m): 0
Liner Meets AOPA: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Liner May Meet AOPA <input type="checkbox"/> Concrete no specs				
Visible Condition of liner: <input type="checkbox"/> Good <input type="checkbox"/> Damaged <input checked="" type="checkbox"/> Uninspectable				
Notes: Applicant has not demonstrated that RCC liner meets AOPA. "Liner May Meet AOPA" chosen as "best case" scenario.				
Surface Water Issue Identified: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable (no SW Bodies within 800m)				
Name / Type / Distance to SW Body (m): Unnamed/Slough on SW15/ 439		<input type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Name / Type / Distance to SW Body (m): Unnamed/Dugout on NE10/ 110		<input checked="" type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Name / Type / Distance to SW Body (m):		<input type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Runoff from facility: <input checked="" type="checkbox"/> Dispersed <input type="checkbox"/> Channelled		Vegetated during runoff event: <input checked="" type="checkbox"/> > 50% <input type="checkbox"/> < 50%/frozen		
Approximate Slope to Surface Water (%): 3		Located less than 1m above the 1 in 25 year floodplain: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Location and Method of Sealing of Water Wells (within 400 m) <input type="checkbox"/> Not Applicable				
Reference Point: W edge of existing pens (used measuring tool on http://groundwater.alberta.ca/WaterWells/d/)				
Well I.D.	Distance to Well(s) (m):	Well Sealing Method:	Depth to top of open interval (m):	Location of well(s) from the reference point:
115735	69	driven	1.8	<input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
Notes: Well id 115735 is the only water well within 400m of all facilities. Well location from reference point and slough were chosen as "unknown" due to the topography; this will provide a reasonable worst case scenario score for both groundwater and surface water. For surface water distance, used measuring tool on http://groundwater.alberta.ca/WaterWells/d/ . Over 800m to the nearest common body of water.				

Solid Manure Storage Facility (SMSF) #2				<input type="checkbox"/> Not Applicable
SMSF Facility #2 Name: Open pens (1 new)				
Liner Type: Roller compacted concrete		Runoff control: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Run-on Control: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Liner Thickness (m): 0.15	Storage Dimensions (m): L: 97-65=32 W: 37		Storage Area (m ²): 1184	Depth below grade (m): 0
Liner Meets AOPA: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Liner May Meet AOPA <input type="checkbox"/> Concrete no specs				
Visible Condition of liner: <input type="checkbox"/> Good <input type="checkbox"/> Damaged <input checked="" type="checkbox"/> Uninspectable				
Notes: Applicant has not demonstrated that RCC liner meets AOPA. "Liner May Meet AOPA" chosen as "best case" scenario.				
Surface Water Issue Identified: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable (no CBW within 800m)				
Name / Type / Distance to SW bodies (m): Unnamed/ Slough on SW15/ 491		<input type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Name / Type / Distance to SW bodies (m): nnamed/Dugout on NE10/ 98		<input checked="" type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Name / Type / Distance to SW bodies (m):		<input type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Runoff from facility: <input checked="" type="checkbox"/> Dispersed <input type="checkbox"/> Channelled		Vegetated during runoff event: <input checked="" type="checkbox"/> > 50% <input type="checkbox"/> < 50%/frozen		
Approximate Slope to Surface Water (%): 3		Located less than 1m above the 1 in 25 year floodplain: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Location and Method of Sealing of Water Wells (within 400 m) <input type="checkbox"/> Not Applicable				
Reference Point: NW corner of new pen (used measuring tool on http://groundwater.alberta.ca/WaterWells/d/)				
Well I.D.	Distance to Well(s) (m):	Well Sealing Method:	Depth to top of open interval (m):	Location of well(s) from the reference point:
115735	75	driven	1.8	<input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
Notes: Well id 115735 is the only water well within 400m of all facilities. Well location from reference point and slough were both chosen as "unknown" due to the topography; this will provide a reasonable worst case scenario score for both groundwater and surface water. For surface water distance, used measuring tool on http://groundwater.alberta.ca/WaterWells/d/ . Over 800m to the nearest common body of water.				

Catch Basin (CB) #1				<input type="checkbox"/> Not Applicable
Catch Basin #1 Name: Catch basin (proposed)				
Liner Type: HDPE		Storage Dimensions (m): L: 31 W: 21 D: 1.8 Slope: 3:1		
Liner Thickness (m): 40 mil	Depth below grade (m) : 1.8	Capacity (m ³):	Runoff Potential (m ³): Facility only: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Liner Meets AOPA: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Liner May Meet AOPA <input type="checkbox"/> Concrete no specs				
Visible Condition of liner: <input type="checkbox"/> Good <input type="checkbox"/> Damaged <input type="checkbox"/> Uninspectable				
Notes: applied for				
Surface Water Issue Identified: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable (no CBW within 800m)				
Name / Type / Distance to SW bodies (m): Unnamed/ Slough on SW15/ 532		<input type="checkbox"/> Upslope of facility	<input type="checkbox"/> Down slope	<input checked="" type="checkbox"/> Unknown
		<input type="checkbox"/> Little Human Use	<input type="checkbox"/> High Use	<input type="checkbox"/> CBW
Name / Type / Distance to SW bodies (m): Unnamed/Dugout on NE10/139		<input checked="" type="checkbox"/> Upslope of facility	<input type="checkbox"/> Down slope	<input type="checkbox"/> Unknown
		<input type="checkbox"/> Little Human Use	<input type="checkbox"/> High Use	<input type="checkbox"/> CBW
Name / Type / Distance to SW bodies (m):		<input type="checkbox"/> Upslope of facility	<input type="checkbox"/> Down slope	<input type="checkbox"/> Unknown
		<input type="checkbox"/> Little Human Use	<input type="checkbox"/> High Use	<input type="checkbox"/> CBW
Runoff from facility: <input checked="" type="checkbox"/> Dispersed <input type="checkbox"/> Channelled		Vegetated during runoff event: <input checked="" type="checkbox"/> > 50% <input type="checkbox"/> < 50%/frozen		
Approximate Slope to Surface Water (%): 3		Located less than 1m above the 1 in 25 year floodplain: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Location and Method of Sealing of Water Wells (within 400 m) <input type="checkbox"/> Not Applicable				
Reference Point: NW corner of proposed catch basin (used measuring tool on http://groundwater.alberta.ca/WaterWells/d/)				
Well I.D.	Distance to Well(s) (m):	Well Sealing Method:	Depth to top of open interval (m):	Location of well(s) from the reference point:
115735	128	driven	1.8	<input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
Notes: Well id 115735 is the only water well within 400m of all facilities. Well location from reference point and slough were both chosen as "unknown" due to the topography; this will provide a reasonable worst case scenario score for both groundwater and surface water. For surface water distance, used measuring tool on http://groundwater.alberta.ca/WaterWells/d/ . Over 800m to the nearest common body of water.				

Liquid Manure Storage (LMS) #1				<input type="checkbox"/> Not Applicable
Liquid Manure Storage #1 Name: Lagoon 1 - east (existing)				
Liner Type: unknown		Runoff control: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Run-on Control: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Liner Thickness (m): unknown		Depth below grade (m): 1.75		
Liner Meets AOPA: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Liner May Meet AOPA <input type="checkbox"/> Concrete no specs				
Visible Condition of liner: <input type="checkbox"/> Good <input type="checkbox"/> Damaged <input checked="" type="checkbox"/> Uninspectable				
Notes:				
Surface Water Issue Identified: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable (no CBW within 800m)				
Name / Type / Distance to SW bodies (m): Unnamed/ Slough on SW15/ 577		<input type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Name / Type / Distance to SW bodies (m): Unnamed/Dugout on NE10/ 31		<input checked="" type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Name / Type / Distance to SW bodies (m):		<input type="checkbox"/> Upslope of facility <input type="checkbox"/> Down slope <input type="checkbox"/> Unknown <input type="checkbox"/> Little Human Use <input type="checkbox"/> High Use <input type="checkbox"/> CBW		
Runoff from facility: <input checked="" type="checkbox"/> Dispersed <input type="checkbox"/> Channelled		Vegetated during runoff event: <input checked="" type="checkbox"/> > 50% <input type="checkbox"/> < 50%/frozen		
Approximate Slope to Surface Water (%): 3		Located less than 1m above the 1 in 25 year floodplain: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Location and Method of Sealing of Water Wells (within 400 m) <input type="checkbox"/> Not Applicable				
Reference Point: NW corner of lagoon 1 (used measuring tool on http://groundwater.alberta.ca/WaterWells/d/)				
Well I.D.	Distance to Well(s) (m):	Well Sealing Method:	Depth to top of open interval (m):	Location of well(s) from the reference point:
115735	113	driven	1.8	<input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
Notes: Well id 115735 is the only water well within 400m of all facilities. Well location from reference point and slough were both chosen as "unknown" due to the topography; this will provide a reasonable worst case scenario score for both groundwater and surface water. For surface water distance, used measuring tool on http://groundwater.alberta.ca/WaterWells/d/ . Over 800m to the nearest common body of water.				

Liquid Manure Storage (LMS) #2		<input type="checkbox"/> Not Applicable		
Liquid Manure Storage #2 Name: Lagoon 2 - west (existing)				
Liner Type: unknown		Runoff control: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Run-on Control: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Liner Thickness (m): unknown		Depth below grade (m): 2.5		
Liner Meets AOPA: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Liner May Meet AOPA <input type="checkbox"/> Concrete no specs				
Visible Condition of liner: <input type="checkbox"/> Good <input type="checkbox"/> Damaged <input checked="" type="checkbox"/> Uninspectable				
Notes:				
Surface Water Issue Identified: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable (no CBW within 800m)				
Name / Type / Distance to SW bodies (m): Unnamed/ Slough on SW15/ 586		<input type="checkbox"/> Upslope of facility	<input type="checkbox"/> Down slope <input checked="" type="checkbox"/> Unknown	
		<input type="checkbox"/> Little Human Use	<input type="checkbox"/> High Use <input type="checkbox"/> CBW	
Name / Type / Distance to SW bodies (m): Unnamed/Dugout on NE10/ 10		<input checked="" type="checkbox"/> Upslope of facility	<input type="checkbox"/> Down slope <input type="checkbox"/> Unknown	
		<input type="checkbox"/> Little Human Use	<input type="checkbox"/> High Use <input type="checkbox"/> CBW	
Name / Type / Distance to SW bodies (m):		<input type="checkbox"/> Upslope of facility	<input type="checkbox"/> Down slope <input type="checkbox"/> Unknown	
		<input type="checkbox"/> Little Human Use	<input type="checkbox"/> High Use <input type="checkbox"/> CBW	
Runoff from facility: <input checked="" type="checkbox"/> Dispersed <input type="checkbox"/> Channelled		Vegetated during runoff event: <input checked="" type="checkbox"/> > 50% <input type="checkbox"/> < 50%/frozen		
Approximate Slope to Surface Water (%): 3		Located less than 1m above the 1 in 25 year floodplain: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Location and Method of Sealing of Water Wells (within 400 m) <input type="checkbox"/> Not Applicable				
Reference Point: NE corner of lagoon 2 (used measuring tool on http://groundwater.alberta.ca/WaterWells/d/)				
Well I.D.	Distance to Well(s) (m):	Well Sealing Method:	Depth to top of open interval (m):	Location of well(s) from the reference point:
115735	113	driven	1.8	<input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
				<input type="checkbox"/> Unknown <input type="checkbox"/> Upslope <input type="checkbox"/> Down slope
Notes: Well id 115735 is the only water well within 400m of all facilities. Well location from reference point and slough were both chosen as "unknown" due to the topography; this will provide a reasonable worst case scenario score for both groundwater and surface water. For surface water distance, used measuring tool on http://groundwater.alberta.ca/WaterWells/d/ . Over 800m to the nearest common body of water.				