

GEOGRAPHICAL RESPONSE PLAN

KEYSTONE PIPELINE SYSTEM

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MOOSEJAW (SK) AREA

RESPONSE SUMMARY

This Geographic Emergency Response Plan (GRP) is a component of the Keystone Emergency Response Plan (ERP). Information herein does not supersede any component of the ERP.

The purpose of this plan is to facilitate expedited and efficient emergency response operations to protect people and the environment near Pelican Lake, Thunder Creek and Moose Jaw River. This plan should be referenced as a guide only during emergency response. All actions should be modified to meet the demands of a specific incident. This plan does not direct actions, but merely serves as a resource to responders.

All responders using this plan should ensure the TransCanada First Responder Checklist is completed before implementing this plan.

Recommendations in this GRP may be applied to releases from TransCanada's Keystone Pipeline in the Chaplin and Caron Sections between valves CHPLN+51_6 and CAROP +40_8.

The surrounding area consists of Prairie Plains which consists of several water courses, Thunder Creek and the Moose Jaw River which are the major drainage division in this area. The topography is relatively level with a clay belt to undulating near the Moose Jaw River. Thunder creek is an intermittent stream draining Pelican Lake in heavy rain seasons and has multiple tributaries and drains into Moose Jaw River. Moose Jaw River drains into the Qu'Appelle River; this river generally consists of steep banks with few coulees cutting into the prairie. The municipalities within this GRP are Caronport, Lumsden, Dufferin, Moose Jaw and Pense.

Culturally and environmentally sensitive receptors need to be protected and preserved in the unlikely event of a release. These receptors have been identified through publically available data from both federal and provincial agencies within a 1km buffer of each source and tactical control points. The Moose Jaw River and Thunder Creek Tactical Plans includes a list of all environmental and cultural receptors for each control point. The identified receptors include water intakes, aquifers, water wells, historic sites, environmentally sensitive areas, aboriginal reserves, soil type, drainage pathway and species of concern.

Below is a table showing all species of concern for both federal and provincial status. Each species are ranked as endangered, extirpated, threatened, of special concern or not listed. The definitions of these classifications are as follows:

Endangered: A wildlife species facing imminent extirpation or extinction

Extirpated: A wildlife species that no longer exists in the wild in Canada, but exists elsewhere

Threatened: A wildlife species that is likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction

Special concern: A species is of special concern because of characteristics that make it particularly sensitive to human activities or natural events.

Not listed: A species for which there is insufficient scientific information to support status designation.

Wildlife Species	SARA Status	Provincial Status	Ecoregion
Mammals			
Little Mountain Myotis	no status	not listed	Moist Mixed Grassland
Birds			
Baird's Sparrow	no status	not listed	Moist Mixed Grassland
Burrowing Owl	endangered	endangered	Moist Mixed Grassland
Chestnut Collared Longspur	threatened	not listed	Moist Mixed Grassland
Piping Plover	endangered	endangered	Moist Mixed Grassland
Ferruginous Hawk	threatened	not listed	Moist Mixed Grassland
Greater Prairie Chicken	extirpated	extirpated	Moist Mixed Grassland
Common Nighthawk	threatened	not listed	Moist Mixed Grassland
Yellow Rail	special concern	not listed	Moist Mixed Grassland
Loggerhead Shrike	threatened	not listed	Moist Mixed Grassland
Red-headed Woodpecker	threatened	not listed	Moist Mixed Grassland
Short-eared Owl	special concern	not listed	Moist Mixed Grassland
Sprague's Pipit	threatened	not listed	Moist Mixed Grassland
Sage Thrasher	endangered	not listed	Moist Mixed Grassland
Bobolink	no status	not listed	Moist Mixed Grassland
Horned Grebe	no status	not listed	Moist Mixed Grassland
Western Grebe	special concern	not listed	Moist Mixed Grassland
Rusty Blackbird	special concern	not listed	Moist Mixed Grassland
Whooping Crane	endangered	endangered	Moist Mixed Grassland
Barn Swallow	no status	not listed	Moist Mixed Grassland
Long Billed Curlew	special concern	not listed	Moist Mixed Grassland
McCowns Longspur	special concern	not listed	Moist Mixed Grassland
Amphibians			
Northern Leopard Frog	special concern	not listed	Moist Mixed Grassland
Western Tiger Salamander	no status	not listed	Moist Mixed Grassland
Arthropods			
Verna's Flower Moth	threatened	not listed	Moist Mixed Grassland
Monarch Butterfly	special concern	not listed	Moist Mixed Grassland
Vascular Plants			
Smooth Goosefoot	threatened	not listed	Moist Mixed Grassland

**Disclaimer: if a species is not listed in on either provincial status or on SARA, it is listed on COSEWIC as a species at risk*

A TransCanada Environmental Specialist will be responsible for managing environmental matters associated with incident response operations, including: environmental assessment; permitting; environmental monitoring and damage assessment; and sensitive habitat and wildlife protection and rehabilitation.

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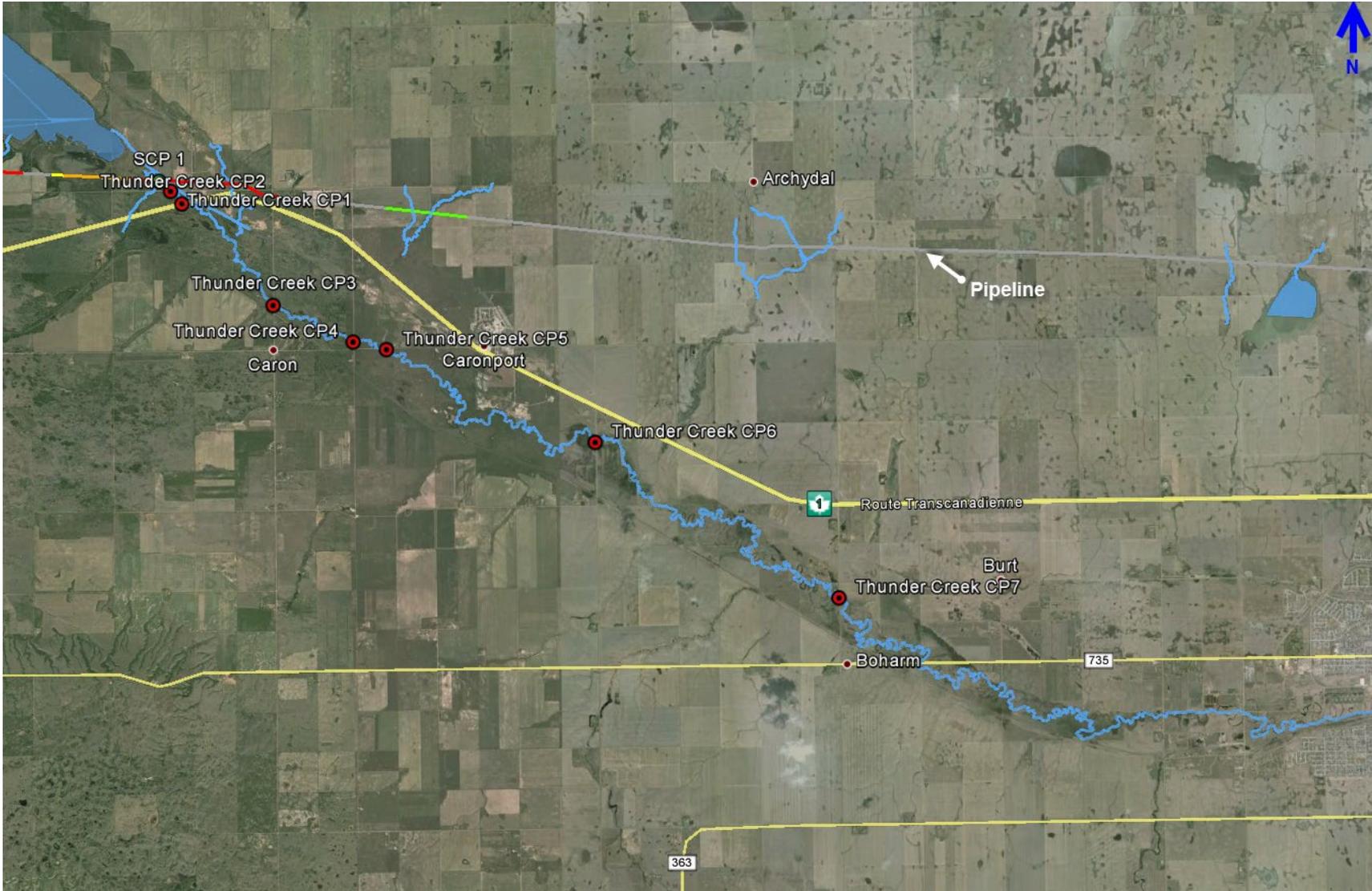
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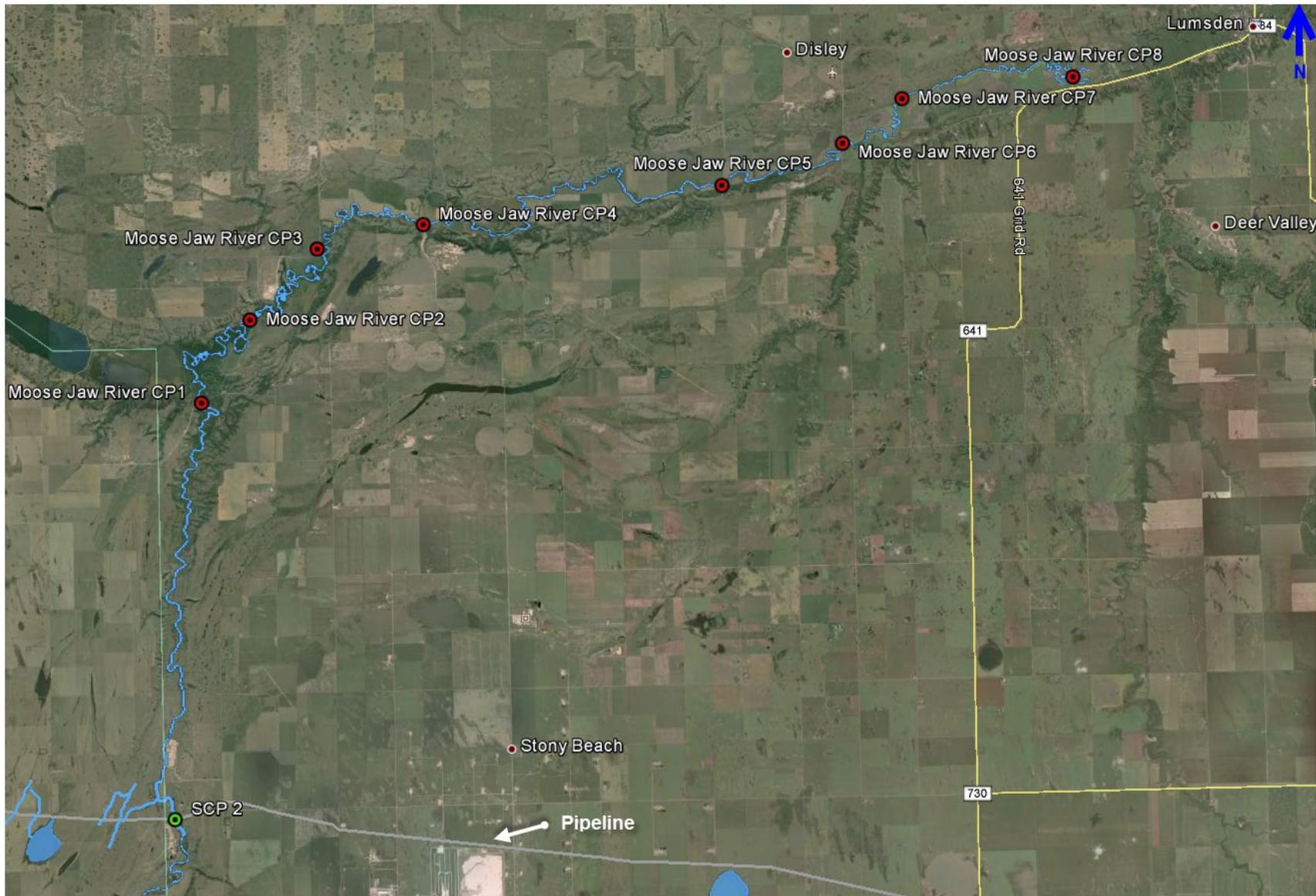
MAPS



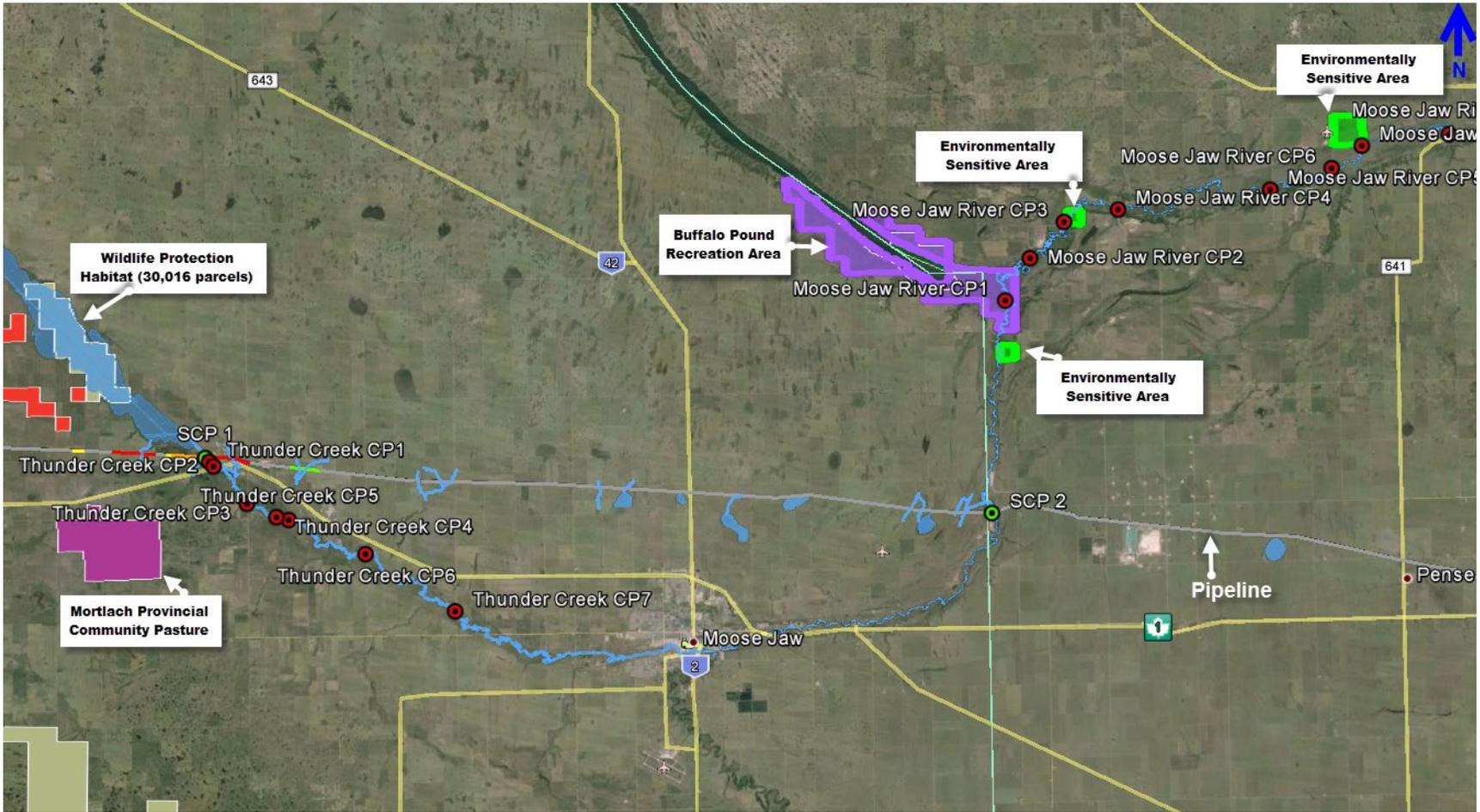
Map 1:
Overview
Map of
entire
Moose
Jaw GRP
Area



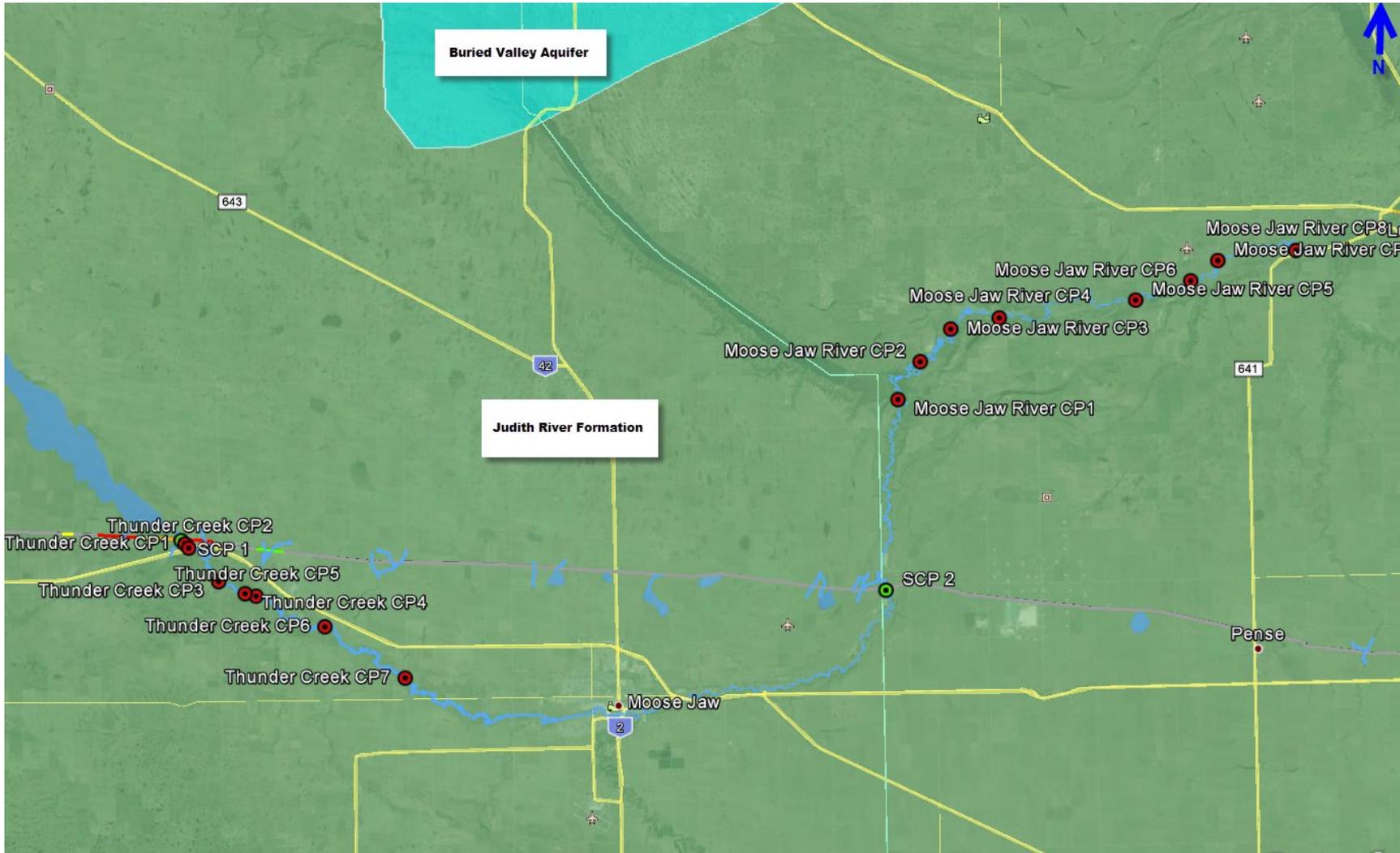
Map 2:
Overview
Map of
Thunder
Creek
Control
Points



Map 3:
Overview
Map of
Moose Jaw
River
Control
Points



Map 4: identifies protected areas within the GRP



Map 5: displays sand and gravel aquifers within the GRP



Map 6: displaying the water channels within the GRP

MEDICAL PLAN (ICS FORM 206)

Transportation

Name	Location	Contact #	Paramedics On-Site (Y/N)
Moose Jaw Fire Department	1205 Main St N, Moose Jaw, SK S6H 6M3	(306) 692-2792/911	Y
Five hills Health Region - Moose Jaw and District EMS	777 High St W Moose Jaw SK S6H 1T7	(306) 694-2151/911	Y
Caronport Fire Department	Caronport, SK S0H 0S0	(306) 756-2627	N
Lumsden & District Volunteer Fire Department	200 River St, Lumsden, SK	911	N
Regina Qu'Appelle Health Region	1350 Albert St, Regina, SK S4R 2R7	(306) 766-6250	Y
Regina Ambulance	1650 Saskatchewan Dr, Regina, SK S4P 0B9	(306) 525-3999	Y
Regina Fire Department	1205 Ross Avenue	(306) 777-7000/911	Y

Hospitals

Hospital Name	Address	Contact #	Travel Time		Burn Center	Heli-Pad
			Air	Ground		
Dr. F. H. Wigmore Regional Hospital	55 Diefenbaker Dr, Moose Jaw, SK S6J 1M5	(306) 694-0200				
Regina General Hospital	1440 14 Ave, Regina, SK S4P 0W5	(306) 766-4444				

Special Medical Emergency Procedures

RESOURCE REQUIREMENT MATRIX

	Calculation	Substantive Spills Avg. Probable (1% WCD) Redacted 2d	Large Spills Max. Most Probable (10% WCD) Redacted 2d	Worst Case Discharge (WCD) Redacted 2d
Skimmer (TDS 118)	=Volume of oil released/2,400 bbls x 2 to compensate for less 100% efficiency 1 skimmer = 2,400 bbls/day	1	4	34
Powerplant (Generator)	=1 per skimmer	1	4	34
Pump	=1 per skimmer	1	4	34
Boom (ft.)	=1000 feet per recovery site	1000	4000	34,000
Vac Truck	=Volume of oil released/Vac Truck capacity/4 trips per day Vac Truck Capacity= 70bbls	2	15	142
Storage (Frac Tank)	=Volume of oil released/Frac Tank capacity x 2 Frac Tanks = 500 bbls	2	16	159

this GRP is located in Response Zone 2 of the Keystone ERP. The WCD was determined by the Pipeline and Hazardous Materials Safety Administration Discharge Volume Association. Within the specific area of this GRP the WCD is **Redacted 2d*

POTENTIAL INCIDENT COMMAND POST FACILITIES

Name/Address	Phone Number	Distance From – Center (km)	Conference Room Size	Food Service On Site (Y/N)	Internet Access (Y/N)	Notes
Moose Jaw Exhibition Co. Ltd. 250 Thatcher Dr. E., Moose Jaw, SK	(306) 692.2723		200-1000 people	Y	Y	Four different facilities all in the same locations: Convention Centre South Seating capacity 480, round tables with dance floor Convention Centre North Phone for details Convention Centre North and South Seating capacity for over 1000 Rectangular tables only For large events phone for details Golden Nugget Centre Seating capacity 230, round tables and dance floor and bar
Community Recreation & Fitness Centre 15 Wing Moose Jaw Po Box 5000 Moose Jaw, SK Canada S6H 7Z8	(306) 694-2230/(306) 694-2222		200 people		Y	
Centennial Hall, 40 Third Avenue Lumsden SK	(306) 731-2404		350 people		N	
Royal Canadian Legion 50 3rd Avenue Lumsden SK	(306) 731-2591				N	
Lumsden Sports Centre 70 3rd Avenue	(306) 731-4220				N	

Comfort Inn & Suites 155 Thatcher Dr W, Moose Jaw, SK S6J 1M1	(306) 692-2100				Y	
Days Inn - Moose Jaw 1720 Main Street North, Moose Jaw, SK S6J 1L4	(306) 691-5777				Y	
Best Western Plus Moose Jaw 350 Diefenbaker Drive, Moose Jaw, SK S6J 1N2	(306) 972-3334				Y	
Ramada Moose Jaw 379 Diefenbaker Dr, Moose Jaw, SK S6J OC1	(306) 693-3050		20 people		Y	

POTENTIAL STAGING AREAS

Name/Address Lat/Long	Landowner	Phone number	Size / Area	Description (Paved Gravel, Field, etc.)
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**** TO BE DETERMINED BY TACTICAL CONTROL POINT FORMS**

LOCAL LODGING

Name/Address Lat/Long	Phone Number	Distance From – Center (Miles/Kilometers)	Units (Total)	Food Service On-Site (Y/N)	Internet Access (Y/N)	Notes
Comfort Inn & Suites 155 Thatcher Dr W, Moose Jaw, SK S6J 1M1	(306) 692-2100			N	Y	
Days Inn - Moose Jaw 1720 Main Street North, Moose Jaw, SK S6J 1L4	(306) 691-5777			N	Y	
Best Western Plus Moose Jaw 350 Diefenbaker Drive, Moose Jaw, SK S6J 1N2	(306) 972-3334		93	N	Y	
Ramada Moose Jaw 379 Diefenbaker Dr, Moose Jaw, SK S6J OC1	(306) 693-3050			N	Y	
Lumsden Hotel & Steak Pit 30 2 Ave, Lumsden, SK S0G 3C0	(306) 731-2381			Y	Y	

LOCAL CATERING SERVICES

Name/Address Lat/Long	Phone Number	Distance From – Center (Miles/Kilometers)	Delivery (Y/N)	Notes
Charlotte's catering 378 Home St. West Moose Jaw, Saskatchewan S6H 4X6	(306) 692-4000		Y	
Super Meats Catering Box 2168 Moose Jaw SK S6H 7T2 Canada	306-692-2424		Y	
Carols Catering 820 North Service Road Moose Jaw, Saskatchewan	(306) 692-9300			
Subway 1230 9th Ave NW, Moose Jaw, SK S6H 4K1	(306) 694-8013		N	
Domino's Pizza 826 9th Ave NW, Moose Jaw, SK S6H 4J1	(306) 694-0044		Y	
Quiznos 121 Thatcher Dr, Moose Jaw, SK S6J 1L8	(306) 694-1884		N	
Jade Garden Restaurant 471 Main St N, Moose Jaw, SK S6H	(306) 694-5566		Y	
Lumsden Valley Restaurant 320 James St N, Lumsden, SK S0G 3C0	(306) 731-3126		N	
Subway Highway 20, Lumsden, SK S0G 3C0	(306) 731-3650		N	
Subway 510 College Dr, Caronport, SK S0H 0S0	(306) 756-3390		N	

LOCAL RESPONSE CONTRACTORS (Cont'd)

Name/Address Lat/Long	Phone Number	Distance From- Center (Miles/Kilometers)	Notes
Quantum Murray Emergency Response	(877) 378-7745		
Oil Contingency Group Area 6	(306)791-5058		
Tervita Corporation	1-800-32-SPILL (77455)		24hr North American Emergency Response Line
Stantec Consulting			Environmental Sampling and consulting For Manitoba/Sask area contact Redacted 1b For work in Alberta contact Redacted 1b
Tetra Tech Consulting			Environmental Sampling and consulting Please contact Redacted 1b
Focus Wildlife	1-310-386-5965		
NewAlta	1-800-774-8466		24hr Emergency Response Line

LOCAL CONTACTS

Name	Location	Phone Numbers
City of Moose Jaw	228 Main Street North Moose Jaw, SK Canada S6H 3J8	(306)694-4400 After normal office hours: (306)692-2794
Moose Jaw Police	21 Fairford St W, Moose Jaw, SK S6H 1V2	(306) 694-7600 / 911
Moose Jaw Fire Department	1205 Main St N, Moose Jaw, SK S6H 6M3	(306) 692-2792 / 911
Caronport Fire Department	Caronport, SK S0H 0S0	(306) 756-2627
Lumsden & District Volunteer Fire Department	200 River St, Lumsden, SK	911
Lumsden Municipal Offices	300 James St N, Lumsden, SK S0G 3C0	(306) 731-2404
Rural Municipality Of Dufferin No 190	507 Main St, Bethune, SK S0G 0H0	(306) 638-2262
Village Of Pense	243 Brunswick St, Pense, SK S0G 3W0	(306) 345-2332
Regina Fire Department	1205 Ross Avenue	(306)777-7000 / 911
Regina Police Service	P.O. Box 196 1717 Osler Street REGINA SK S4P 2Z8	(306) 777-6612
City of Regina	2476 Victoria Avenue PO Box 1790 Regina, SK Canada S4P 3C8	(306) 777-7000
Lumsden RCMP Police Department	60 SK-641, Lumsden, SK S0G 3C0	(306) 731-4270
Village Of Caronport	201 Valleyview Dr, Caronport, SK S0H 0S0	(306) 756-2225

CONTROL POINTS ASSOCIATED WITH THIS PLAN

This Geographic Response Plan includes several Control Points which may be referenced for recommendation or considerations when containing or recovering released oil in the Moose Jaw, SK area. When this plan is viewed in electronic format with access to the TransCanada intranet, the links below can be clicked to access each Control Point. When this plan is printed and viewed in paper format, the Control Points should also be printed and attached to the Plan.

MOOSE JAW RIVER

- [MOOSE JAW RIVER TCP 1](#)
- [MOOSE JAW RIVER TCP 2](#)
- [MOOSE JAW RIVER TCP 3](#)
- [MOOSE JAW RIVER TCP 4](#)
- [MOOSE JAW RIVER TCP 5](#)
- [MOOSE JAW RIVER TCP 6](#)
- [MOOSE JAW RIVER TCP 7](#)
- [MOOSE JAW RIVER TCP 8](#)