

Single Site Application for an Approval Short Term Non-Recurrent Use of Water Section 8 of the *Water Act*

Every Approval applicant, or their agent, shall furnish the following particulars to the appropriate regional office (refer to Part 9 of the instructions for regional office addresses).

Note: if applying as a company, please use the B.C. registered company name and address.

1. Applicant Information

Name: Westcoast Energy Inc. doing business as Spectra Energy Transmission

Address: 3985 22nd Avenue

City: Prince George

Province: BC

Postal code: V2N 1B7

Phone: 250-960-2055

Fax: 250-960-2002

562-9135

E-mail: disseur@spectraenergy.com

Contact Name (if different from the Applicant): Neal Foord

Address (if different from the Applicant): 201-1157 5th Ave.

City: Prince George

Province: BC

Postal code: V2L 3L1

Phone: 250-562-9155

Fax: 250-562-9135

E-mail: nfoord@triton-env.com

2. Location of Proposed Works

Stream Name (or description): Cottonwood River

Flows Into: Fraser River

Location of intake and works relative to a surveyed or known point: Pipeline Right-of-Way Crossing 9 river-km upstream of the confluence with the Fraser River

Reference Landmarks: 3.1 km west of Cottonwood River bridge on Quesnel-Hixon Road

Latitude: 53° 09' 35.3" N

Longitude: 122° 31' 26.72" W

Elevation: 518 m

Legal description of land which will be crossed by the works: ROW over district lots 8599 and 8600, Cariboo Regional District

The works to be used (e.g. hose, pump), including the works necessary to dispose the used water: Pump and hose will be used for both the hydrostatic testing and the removal of waste water after channel is flushed.

FOR OFFICE USE ONLY

Date Received:

RECEIVED

Water File Number:

A704281

Client Number:

40466

Application Number:

MUS2011/2026-0003

DEC 02 2011

Amount Received:

600.00

Receipt Number:

FRONT-COUNTER BC
PRINCE GEORGE, BC

3. Water Use		
Total volume of water to be used (indicate units): 500 cubic meters	Maximum rate of withdrawal (indicate units): 40 cubic meters/minute	
The start and end dates between which the water is to be used (12 month maximum): Start: January 1 st 2012 Finish: December 31 st 2012		
The Purpose for which the water is to be used: Hydrostatic pressure testing of new pipe to be installed and a small volume of water will be needed to flush/wash disturbed portions of the Cottonwood River channel prior to reinstating flows from temporary diversions.		
Legal description of land or location thereof, where the water is to be used: RoW over district lots 8599 and 8600, Cariboo Regional District		
4. Land Ownership at Point of Extraction		
Please check as applicable:		
<input type="checkbox"/> The applicant is the owner of the property.		
<input type="checkbox"/> The property is Crown land and applicant has tenure over the crown land. Tenure/licence number:		
<input type="checkbox"/> The property is Crown land and tenured to Ministry of Transportation.		
<input type="checkbox"/> Third party as lease/licence tenure.		
<input checked="" type="checkbox"/> The property is owned by the following Landowner (i.e. Landowner is different from applicant): Right-of-Way over DL 8600 & 8599, Cariboo District		
Landowner's Name: Don Lund		
Address: 1350 Tertiary Road		
City: Quesnel	Province: BC	Postal code: V0K 1S1
Phone: 250-998-4703	E-mail (Optional): dlund@uniserve.com	
Do you have written consent of the owner of privately held land or the lawful occupant of the Crown Land for the construction and operation of the proposed works, if the proposed works affect such land? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Please do not attach the Land owner's written approval with the application, but keep it for your files as you may be asked to produce it during an inspection or audit. Note: No right of expropriation exists under an Approval. If difficulty will be experienced in obtaining easements, it may be better to apply for a water licence instead of an Approval.		

5. Drawn Plan and Site Map(s)

1. Attach drawing showing the proposed point of diversion and the proposed works, including the relation between works and lot boundaries, location of buildings, stream direction and flow.

2. Attach a key map at an appropriate scale showing the location of the site.

3. Detailed Description of Work to be Performed (attach additional page(s) if necessary):

Spectra's 30-inch natural gas pipeline has been exposed in the Cottonwood River. Repair activities are required at this location prior to freshet 2012 (Type 2 emergency), as flow conditions during freshet will place the pipeline at an unacceptable level of risk. In the interest of public, environmental and corporate safety, the pipeline must be adequately protected.

In order to provide this protection, Spectra proposes to bury a new section of pipeline under the Cottonwood River, and tie this section into the existing mainline. The method of least environmental risk for this process is outlined in the following steps. **Bold** indicates required water usage.

1. Delineate workspace and clear required vegetation (including riparian area).
2. Install river diversion structures to force flows into a channel constructed on the south side of the active river channel.
3. Excavate to suitable depth a pathway for a casing pipe to a midway point within the river channel on the dewatered north side.
4. Restore substrates and flow over top of the previously excavated area. **Channel washing may be conducted to reduce turbidity once flows are restored. Channel washing will use a trash pump and fire nozzle, a second pump will be stationed in a sump at the downstream end of the channel to collect turbid water, which will be pumped to nearby vegetated land for filtration.**
5. Excavate the south side to uncover the end of the casing pipe and construct trench for pipe burial.
6. Pull prepared pipeline through casing pipe and install in excavated area within the south half of the channel.
7. **Conduct hydrostatic pressure testing of new pipe section to ensure integrity**
8. Tie in to existing pipeline and restore cover and channel form throughout the wetted channel
9. Complete site restoration and stabilization

The Purpose of the water to be used is:

1. Hydrostatic pressure testing of new pipe.
2. Washing exposed channel and removing sediment laden water.

6. Statement of Intent

By submitting this application form, I declare that the information contained on this form is complete and accurate information. I have read, understood and will meet the requirements to conduct short term non-recurrent use of water in accordance with Section 8 of the *Water Act*.

Signed: _____



Application Date: _____

02/12/2011
day/month/year

7. Responsibilities

You are required to comply with all applicable federal, provincial and municipal laws and regulations.

8. Submission Instructions

Send the completed form along with any attachments and the fee to the local office in which the proposed works are located. Addresses for local offices are listed on the instruction sheet.

The fee for a short-term water use Approval is comprised of two parts (refer to Part 8 of Guide):

(a) A fee for the proposed type of water use (contained in Part One of Schedule A of the Water Regulation) Refer to:

http://www.env.gov.bc.ca/wsd/water_rights/cabinet/fees-water_revised_march2010.pdf

(b) A water rent, for one year, which is based on the proposed purpose and volume of water use (contained in Parts 2 and 3 of Schedule A of the Water Regulation) Refer to:

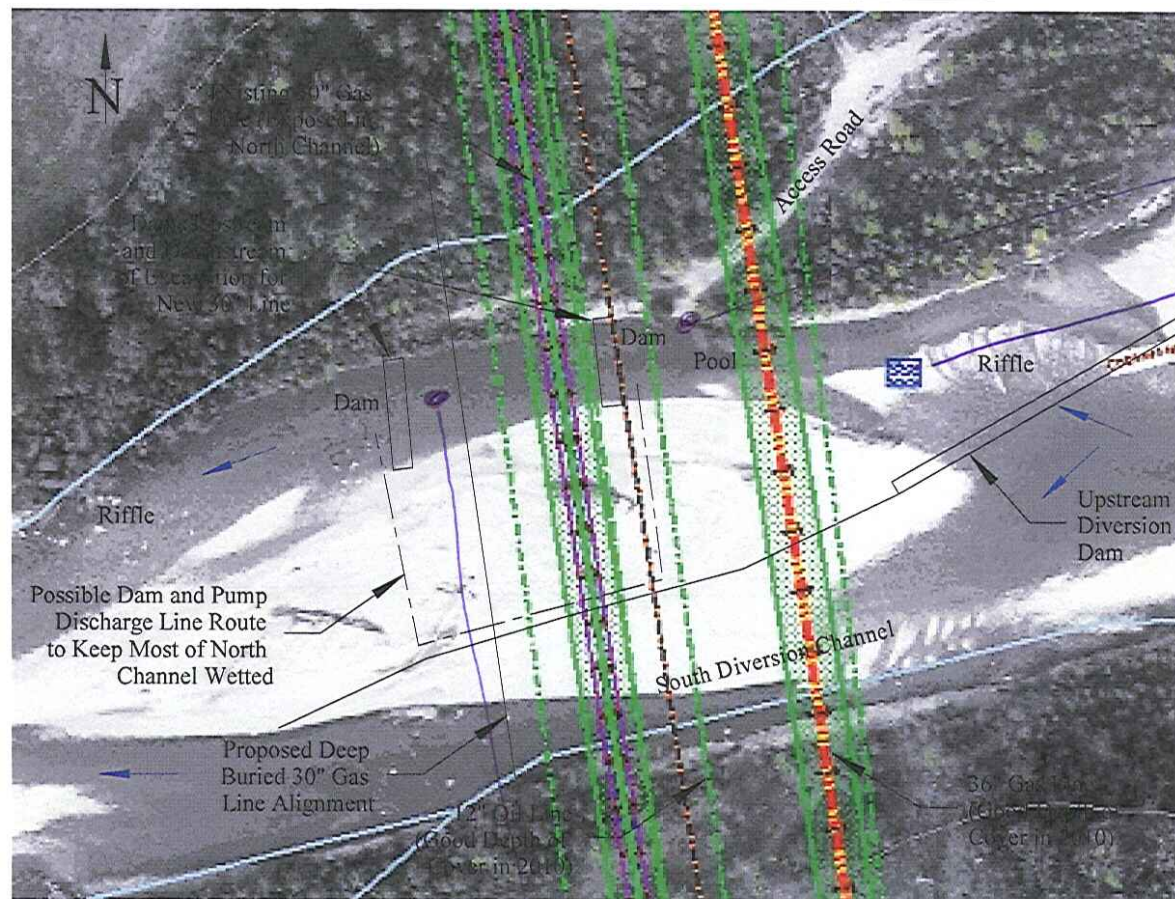
http://www.env.gov.bc.ca/wsd/water_rights/water_rental_rates/cabinet/new_rent_structure.pdf

Cheques should be made payable to the Minister of Finance. Note that FrontCounterBC in Kamloops will also accept VISA and MasterCard.

☒ Sketch plan included (mandatory)

☒ Key location map included (mandatory)

Possible Layout of Water Diversion Around Deep Burial of New 30" Line in North Channel



~2007 Airphoto Base - Typical Low Flow Conditions

likely location of pump for hydro-testing (nearest deep pool)

Pump location for diversion, and likely location of trash pump for channel washing

location of sump / pump to collect turbid water during washing. water to be discharged into bush to the north.

Spectra Energy Transmission
Cottonwood River

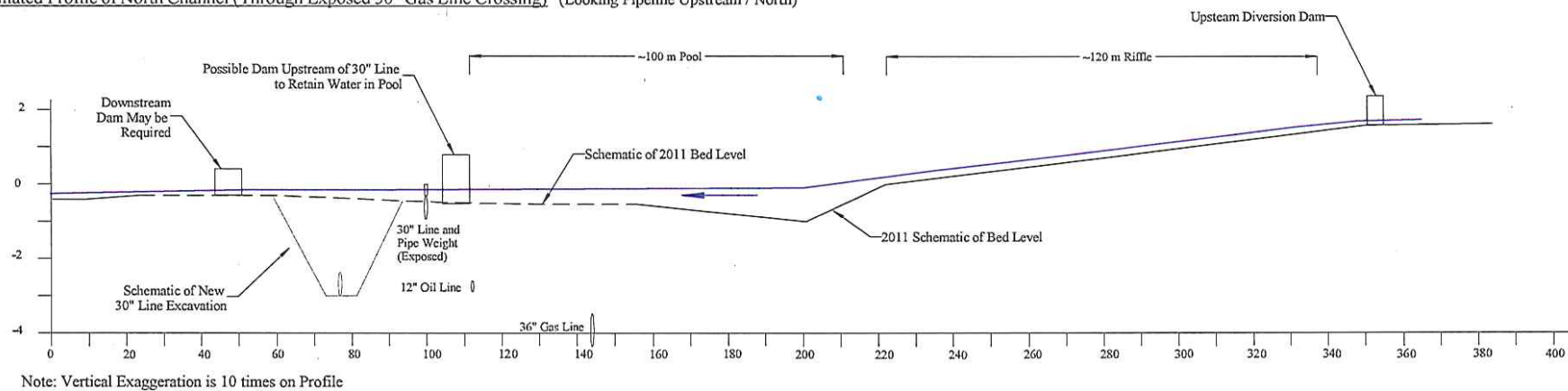
Figure 1
Possible Layout of Water Diversion



Drawn By: Bob Costerton, P.Eng.

Date: 8 November 2011

Estimated Profile of North Channel (Through Exposed 30" Gas Line Crossing) (Looking Pipeline Upstream / North)



Spectra Energy Transmission
Cottonwood River

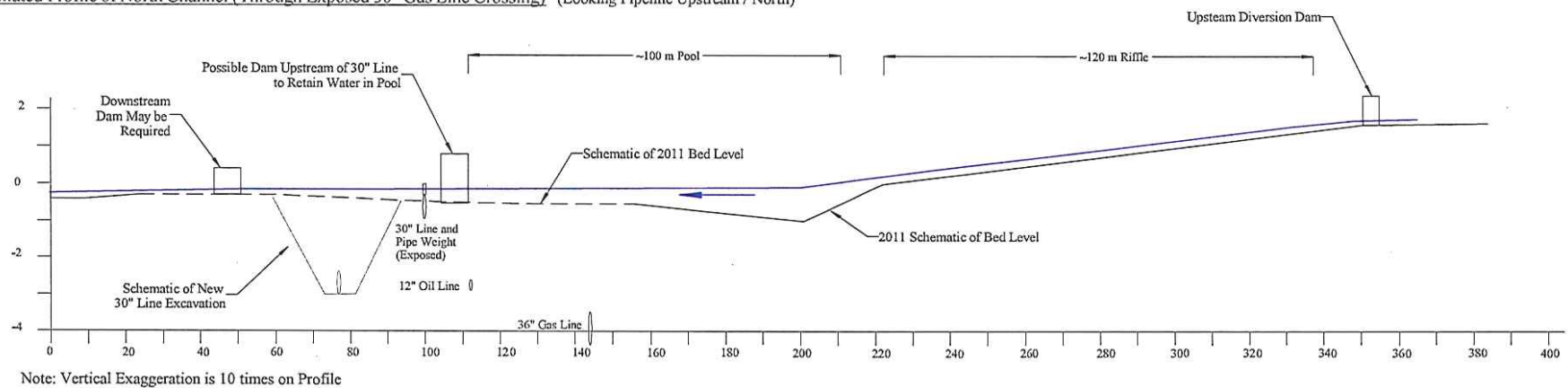
Figure 2
Schematic River Profile of
North Channel Diversion Works



Drawn By: Bob Costerton, P.Eng.

Date: 8 November 2011

Estimated Profile of North Channel (Through Exposed 30" Gas Line Crossing) (Looking Pipeline Upstream / North)



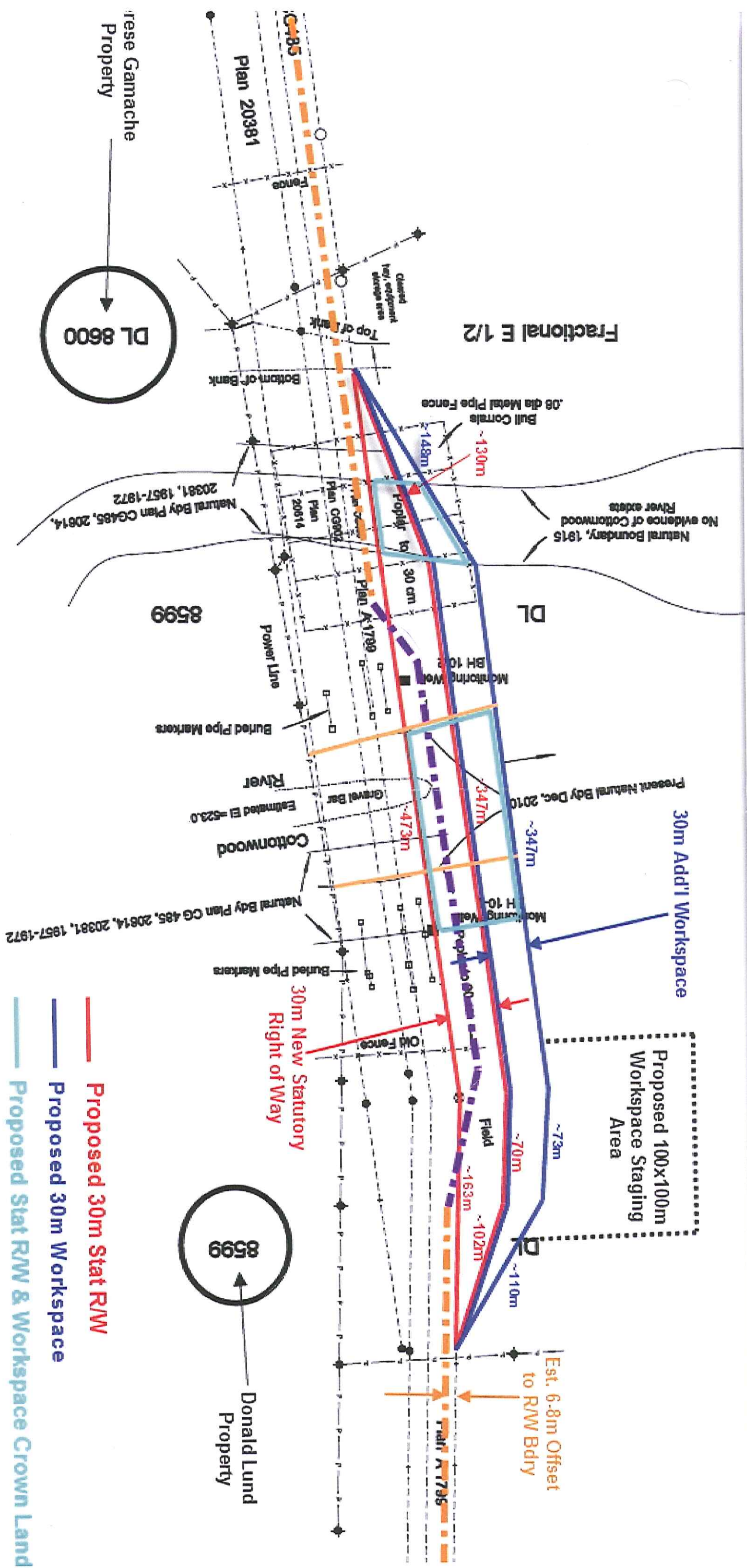
Spectra Energy Transmission
Cottonwood River

Figure 2
Schematic River Profile of
North Channel Diversion Works



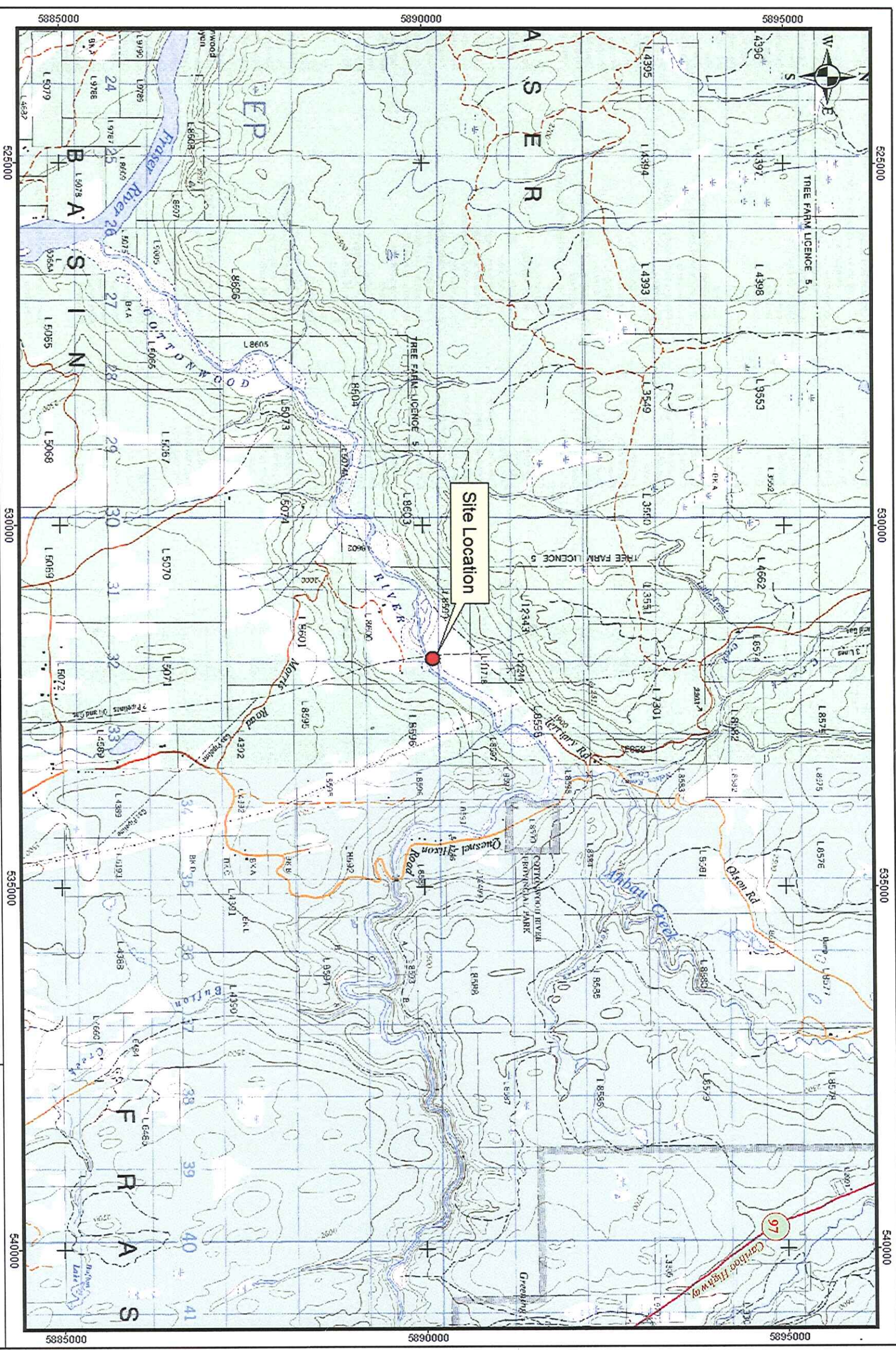
Drawn By: Bob Costerton, P.Eng.

Date: 8 November 2011



Hydrostatic Pressure test to occur on this section of pipe.

- Proposed 30m Stat R/W
- Proposed 30m Workspace
- Proposed Stat R/W & Workspace Crown Land
- Natural Bdry Cottonwood River as of Dec 19, 2010
- - - Proposed 30" Pipeline (Approx. length 380m)
- - - Existing 30" Pipeline
- Additional 100x100m Workspace area



COTTONWOOD RIVER PIPELINE REPLACEMENT

Site Location Map



Base Map Source:	Date:	Map Datum:
1:50,000 Canamatic	November 23, 2011	UTM NAD 83 Zone 10
Project No:	File No:	
4358	N:\N:\ACTIVE\4358_Spectra	
	N:\XD Project\location.mxd	

