



Enbridge Pipelines (North Dakota) LLC

Blaisdell, Denbigh, Penn, & Larimore Stations Construction Project

TREE & SHRUB RESTORATION PLAN

North Dakota Public Service Commission

Case No. PU-06-349

Prepared by:



April 2008

BLAISDELL, DENBIGH, PENN, AND LARIMORE STATIONS CONSTRUCTION PROJECT

TREE & SHRUB RESTORATION PLAN

INTRODUCTION

On August 4, 2006 Enbridge Pipelines (North Dakota) LLC (Enbridge) filed a Consolidated Letter of Intent and Application for Waiver or Reduction of Procedures and Time Schedules and for a Corridor Certificate and Route Permit for the Blaisdell, Denbigh, Penn, and Larimore Stations Construction Project to the North Dakota Public Service Commission (Commission). On September 20, 2006, the Commission issued its Finding of Fact, Conclusion of Law and Order regarding the case (Case No. PU-06-349). As part of its restoration requirements, Enbridge is required to replace trees and shrubs that were removed as part of the project. Condition 19 of the Commission's Order addresses tree and shrub restoration. The Order reads as follows:

Trees or other woody vegetation must be replaced with saplings that are two or more years old at a rate of two for every one removed. Landowners shall be given the option of having replacement trees/shrubs planted off the right-of-way on the landowner's property or waiving that requirement in writing and allowing Enbridge to plant the replacement trees/shrubs elsewhere. All effected trees and shrubs must be quantified before construction activity. Enbridge shall record, and file with the Commission, the number and variety of replacement tree and shrub plantings, the specific planting area(s) and dates of the plantings. Enbridge shall inspect tree replacements once a year for three years, on the anniversary of the plantings, and send a report on or shortly before October 1 of each year to the Commission documenting work completion and condition of woodlands planting. The Commission may order additional plantings if survival rates are less than 75%.

To comply with Condition 19, Enbridge is submitting the results of its tree and shrub inventory, planting procedures, and a timeline for replanting. Enbridge requests that the Commission review this plan for adequacy and approval. Enbridge will submit the location of the planting area(s) in a separate filing once the site(s) have been determined.

TREE AND SHRUB INVENTORY

A pre-construction inventory was conducted in late fall 2006 at each of the four station sites. All trees to be removed during construction were documented. A summary of the location, type, and quantity of trees and shrubs inventoried and removed during construction is provided in Table 1.

REPLANTING PROCEDURES TO BE IMPLEMENTED

Because of the industrial nature of the pumping stations, tree replacement cannot be completed within the station properties. Enbridge therefore proposes to replace trees and shrubs elsewhere. Enbridge is proposing to contract the Williams County Soil Conservation District (SCD) to complete all tree and shrub plantings for the station project. Although Williams County is not located in close proximity to the project, Enbridge is currently contracting the SCD to complete tree and shrub replacements for a separate Enbridge project located in Williams County, the Phase 5 Trenton to Beaver Lodge Pipeline Project (NDPSC Case No. PU-06-330). Since both projects are on the same time schedule and have similar replacement requirements, utilizing the SCD to complete replacement plantings for both projects will ensure site preparation, planting, and monitoring are completed uniformly and efficiently.

**Table 1
Tree and Shrub Inventory for the Blaisdell, Denbigh, Penn, and
Larimore Stations Construction Project***

Station	Trees									Shrubs		
	CW	SR	QA	AE	CE	GA	WS	CL	Total	AE	WS	Total
Blaisdell						2			2			-
Denbigh									-			-
Penn	15	21	1	16	1		4	6	64	1	3	4
Larimore												-
Total by Species	15	21	1	16	1	2	4	6	66 Trees	1	3	4 Shrubs

* This inventory identifies trees and shrubs removed by construction activities. It does not provide the quantity of trees and shrubs that will be replaced. Replacement will occur on a 2:1 basis based on the quantities provided in this table.

Key: CW = Cottonwood; SR = Spruce; QA = Quaking Aspen; AE = American Elm; CE = Cedar; GA = Green Ash; WS = Willow species; CL – Common Lilac

The SCD has stated land is available in Williams County to complete the necessary tree and shrub replacement; however, the exact location has not been determined. Once the location is determined, the SCD will consult with the North Dakota State Forester (NDSF) to determine if the site is acceptable and the species to be planted are acceptable. Once finalized, the planting plan will be submitted to the Commission for adequacy review and approval.

Enbridge will replace trees and shrubs removed during construction with saplings at a rate of two for every one removed. Stock less than two years of age may be planted which is a variation from the requirements of Condition 19. As discussed in a letter provided in Exhibit A, stock less than two years of age should be suitable for planting. The SCD and NDSF will coordinate to ensure suitable stock is utilized for the project.

The SCD will conduct or coordinate site preparation and maintenance activities for the replacement project. These activities may include disking, plowing, or rototilling where mechanical plantings will occur, installing weed barriers or tree tubes, and applying deer repellent or herbicides. The SCD will determine the appropriate preparation and maintenance procedures on a site by site basis.

TIMELINE FOR REPLANTINGS

Due to the large amount of plantings required for both projects, mechanical planting will be utilized. Mechanical planting requires disking, plowing, or rototilling for one growing season prior to conducting planting. These site preparation activities will be completed in 2008. The replacement plantings will be completed in spring 2009.

REPLACEMENT MONITORING

In accordance with Condition 19, Enbridge or the SCD will inspect tree/shrub replacements once a year for three years, on the anniversary of the plantings, and send a report on or shortly before October 1 of each year to the Commission documenting work completion and condition of woodland plantings. Enbridge understands the Commission may order additional plantings if survival rates are less than 75%.

Exhibit A

Letter from the Williams County Soil Conservation District Regarding Replacement Stock



Williams County Soil Conservation District

1106 W 2nd Street
Williston ND 58801
Phone (701)572-6729 Ext 3

February 5, 2008

Kris Benson
Enbridge (U.S.) Inc.
119 N 25th St E
Superior, WI 54880

Dear Kris,

I reviewed the PSC conditions regarding replacement of the trees for Enbridge. We purchase all our trees from Lincoln Oaks Nursery in Bismarck, North Dakota and from Towner Nursery in Towner, North Dakota. I called the Lincoln Oaks Nursery in reference to item number ten stating: "Tree replacement shall be on a 2 to 1 basis with 2-year-old saplings. Shrub replacement shall be on a 2 to 1 basis with stem cuttings." Most of the stock from Lincoln Oaks, who supplies all our deciduous trees, is 2 years old. There are varieties that are younger. The nurseryman told me that smaller plants tend to have better chances of survival and adaptability to the elements of the plantings. We order our evergreens from Towner Nursery. Their stock is two years old.

In item 11 it states: "Trees and shrubs shall be replaced by the same species or similar species suitable for North Dakota growing conditions as recommended by the North Dakota Forest Service." All plantings from our office will have to be suitable to the soils in the planting area to be approved for planting. Tom Claeys, North Dakota Forest Service and our office work closely in these issues.

Please feel free to contact our office if there are any questions concerning these plantings.

Sincerely,

Gwenda Freed
Williams County Technician

Cc: Jeff Mackenthun



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