

KIMBALL PIPELINE REPLACEMENT PROJECT

DESCRIPTION OF CONSTRUCTION ACTIVITIES

Construction of the Proposed Pipeline will be divided into several phases.

NOVA Chemicals will provide its own Construction Management staff who will monitor and ensure compliance with the requirements of the EPP and construction work package. All un-escorted personnel that are required to be in the construction area will attend the NOVA Chemicals' project on-boarding session, which will include an EPP training session. All workers will sign and acknowledge the training.

The easement working space will be bush hogged during colder months that will avoid the active periods of birds or reptiles. Any useful trees that require removal will be replaced in accordance with the agreed replacement program. The wood will be provided to the landowner for use if the landowner wishes to use it.

The work space area will have a sterilization/erosion fence installed. NOVA Chemicals' Environmental Inspector shall be in attendance while the fence is installed.

Periodic walk downs of the work area will be completed to release any trapped animals from inside the work area.

The grading crew will remove the top soil layer to keep it separate from the subsoil. Access for this crew will be off of the established roads or via secondary access which NOVA Chemicals will have received permission to use (e.g. Enbridge Gas Distribution Inc. access road).

The excavation/removal crew will begin with locating the dormant NPS4 and NPS8 pipelines. They will be excavated and pulled from the ground utilizing rigging and the hydraulic excavator. The pipeline scrap material will be disposed of at a NOVA Chemicals approved scrap steel facility. Three segments of each of the dormant

pipelines will be abandoned in place (under Tecumseh Road and Jarvis Drain, under Ladysmith Road and under Allingham Drain); the pipe and casings will be pumped full with concrete. The abandonment plan will be approved by St. Clair Township.

The removal trench will be backfilled as the crew moves down the RoW. This crew will continue until the removal scope has been completed.

The stringing crew will lay the new pipe on skids behind the removal crew. Horizontal Directional Drill (“HDD”) drag sections will be assembled in preparation for the road crossings. Joint assembly will be completed by welding crews. Each joint will be re-coated after non-destructive examination (“NDE”) via radiographic testing indicates that the joint meets applicable criteria.

The HDD crew will set up the machine and follow the drill profile. A pilot hole is first drilled utilizing an above ground tracker unit. After the pilot hole has been established, a reamer is pulled back to enlarge the bore hole to the required size. The drill rods are then pushed back through the hole attached to the pulling lug on the new 12” NPS drag section and the pipe is pulled into the bore hole. This will be repeated at each of the identified crossings where HDD will be used.

The new pipeline trench line will be laid out and the trenching crew will start the trenching process by means of an excavator. Welded out pipe lengths will be installed with side boom machines and a welding tie-in crew will connect the sections of pipe together. After successful NDE, coating repairs, drainage (tile) repairs and installation of the cathodic protection system, the trench line will be back filled with the native soil.

Upon completion of all below grade work and connection to the above grade launch/trap piping, the complete system is filled with water and pressure tested in accordance with the prescribed test plan. After a successful pressure test, the required baseline in-line inspection work will be completed on the pipeline.

The pipeline will then be fully dewatered and dried to the specified dew point.

The grading crew will return to the RoW and break up any heavily compacted sub soil as needed and replace the topsoil layer. The work space area will be re-seeded.

The work space exclusion/soil erosion fence will be removed and final top dress cleanup will be completed.