

**ASPHALT PRODUCT
INDUSTRIES INC.**

**STORAGE TANK
EXPANSION**

**REGISTRATION DOCUMENT
ENVIRONMENTAL ASSESSMENT**

November 2016

CONTENTS

1.0	NAME OF UNDERTAKING	1
2.0	PROPONENT	1
2.1	Name of a Corporate Body	1
2.2	Address	1
2.3	Chief Executive Officer & Principal Contact Person	1
3.0	THE UNDERTAKING	1
3.1	Nature of the Undertaking	1
3.2	Purpose and Need of the Undertaking	2
4.0	DESCRIPTION OF THE UNDERTAKING.....	2
4.1	Geographical Location.....	2
4.2	Physical Features	3
4.3	Construction	3
4.3.1	Construction activities	3
4.4	OPERATION.....	4
4.4.1	Material Handling.....	5
4.4.2	Storage	5
4.4.3	Water Emissions.....	5
4.4.4	Spills	5

APPENDICES

Appendix A – Large Scale Base Map

Appendix B – Site Plan

Appendix C – Labour Requirements Table

1.0 NAME OF THE UNDERTAKING

Asphalt Product Industries Inc.

2.0 PROPONENT

Name of Corporate Body:

Asphalt Product Industries Inc. is a private Canadian company. It is incorporated under the laws of Newfoundland and registered to do business in Newfoundland under the Newfoundland Corporations Act.

Address:

P. O. Box 3008
Trans Canada Highway
St. John's, NL A1L 3W2
Phone: (709) 368-4618

Chief Executive Officer & Principal Contract Person:

Carl Healey
P. O. Box 3008
Trans Canada Highway
St. John's, NL A1L 3W2
Phone: (709) 368-4618

3.0 THE UNDERTAKING

3.1 NATURE OF THE UNDERTAKING

Asphalt Product Industries Inc. proposes to construct an additional 7000 tonne Liquid Asphalt Storage Tank at our Liquid Asphalt Storage Terminal located in Come By Chance, NL, for the handling and storage of asphalt cement (AC), also known as bitumen, used in the road construction industry. The project as described in Section 4.4 represents a private capital investment in excess of \$500,000.00, and employment of approximately 12 people during construction. The project provides road construction contracting companies within the area with an alternative source of liquid asphalt cement used in the road construction industry.

3.2 PURPOSE AND NEED OF THE UNDERTAKING

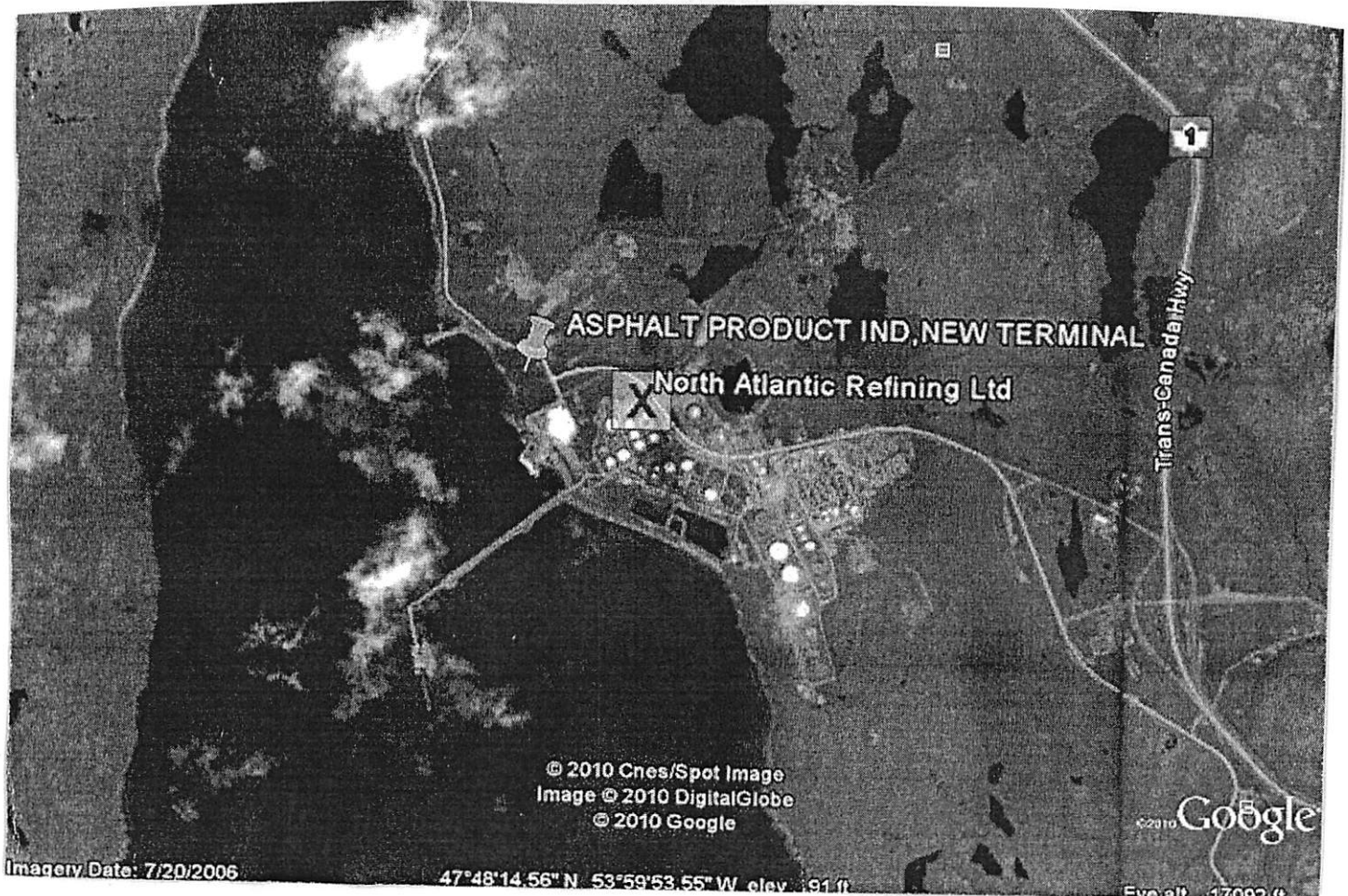
The purpose of the undertaking is to provide additional storage at our Liquid Asphalt Storage Facility in Come By Chance, operated under Certificate of Approval # AA16-115641.

4.0 DESCRIPTION OF THE UNDERTAKING

4.1 GEOGRAPHICAL LOCATION

The site is surrounded by industrial development:

- i) Southeast within 300 m of North Atlantic Refining Ltd.
- ii) South within 400 m a Sulfur manufacturing facility
- iii) Southwest and Northeast of wharf and dock facilities
- iv) North and Northwest of Quarry operations
- v) Within Asphalt Product Industries Liquid Asphalt Storage Facility



4.2 PHYSICAL FEATURES

See Appendix B – Site Plan

4.3 CONSTRUCTION

For the Terminal as described in Section 4.4, construction will consist of:

- Steel construction (tanks)
- Pipe lines and pumps (AC, Hot Oil)

The construction period to commissioning of the Project is expected to be three months:

Tank Construction – Winter and Spring 2017

4.3.1 Construction Activities

- No burial or burning of any construction waste will be permitted at the site.
- Strive to ensure that any construction waste is recycled and reused wherever possible, or disposed of at an appropriate waste disposal facility.
- Implement measures to minimize the release of particulate matter to the air or storm water runoff.
- Standard migration measures will be incorporated into plans and construction drawings, and implemented to prevent the release of sediment-laden water from any portion of the project site into fish bearing waters.
- Contractors will have a suitable emergency spill response kit on site. All spills or leaks shall be promptly contained, cleaned up and reported to the 24 hour environmental emergencies reporting system (1-800-563-2444).
- All areas of soil exposed as a result of the project will be immediately stabilized to prevent erosion and subsequent sediment deposition into the aquatic environment. All areas will be stabilized with vegetation or crushed stone.
- Blasting at the adjacent quarry sites will not affect construction activities. A seismic activity level of 12 mm/s has been incorporated into the design specifications. This is the maximum level allowed by the quarry's Approval and is much higher than that generated in actual practice.

4.4 OPERATION

Asphalt Product Industries' Liquid Asphalt Storage Facility is operating under Department of Environment and Conservation Certificate of Approval No. AA16-115641 and all terms and conditions of the approval remain the same.

Operation of the Terminal Consists of receiving tanker trucks and tanker barges and pumping the AC into the storage tank. The AC is then pumped into delivery tanker trucks for subsequent delivery to the final destination.

Customers that require AC will send their tanker trucks to the Terminal to pick up the product. A complete tracking system will be in place to ensure only trained drivers are allowed on site and that the trucks are properly loaded and documented. Loading is carried out at the loading rack where the volume of AC loaded onto the truck is controlled through the use of a flow meter. A weigh scale is used to weigh the tanker trucks before product is supplied to ensure compliance with road restrictions.

This operation will be seasonal permanent and will operate during the months of May through November with staff monitoring facility for maintenance purposes from December through April.

Security system and facilities – the property will have security fence and gates at the entrances where the truck vehicles enter to load or off-load material. Camera systems will also be installed at key locations to allow the operators with views of key areas of the site.

Fire response system – the operating crew of the Terminal will be trained in dealing with first response to fire and other incidents. This will include fire suppression equipment located throughout the site, spill containment kits and response procedures to deal with the spilled material and water from managing any fires.

Other facilities will be provided as required to support safe, efficient and reliable operation. The terminal will have properly trained staff, have the tools necessary to operate effectively and with minimal risk to health to the workforce and the environment.

Potential air, noise and water impacts that may result from the construction or operation of the terminal are described below:

4.4.1 Material Handling

- Ensure that whenever products are being transferred they will be supervised by trained personnel at all times and in such a manner that the flow of products can be immediately shut off, if necessary.

-
- Product storage, loading, transfer and handling will only be conducted in contained areas.

4.4.2 Storage

- All storage vessels and spill containment systems will be visually inspected for leakage on a regular basis.
- All storage vessels will meet the applicable standards and codes.
- Fuel tanks will be doubled walled with vacuum indicators.

4.4.3 Water Emissions

- The site will be appropriately graded to manage surface runoff and be diverted to the oil/water separator and settlement pond located near the loading rack.
- Portable Toilets will be utilized and waste disposed of as per Newfoundland and Labrador regulations.
- Precipitation that accumulates within the bermed area around the storage tanks will be diverted to an oily water separator then to a temporary holding pond before it is released to the environment. Control will be managed with a valve system and water will only be released if no visual evidence of impact is identified. If impacts are observed, the water will be removed and disposed at a licensed facility.

4.4.4 Spills

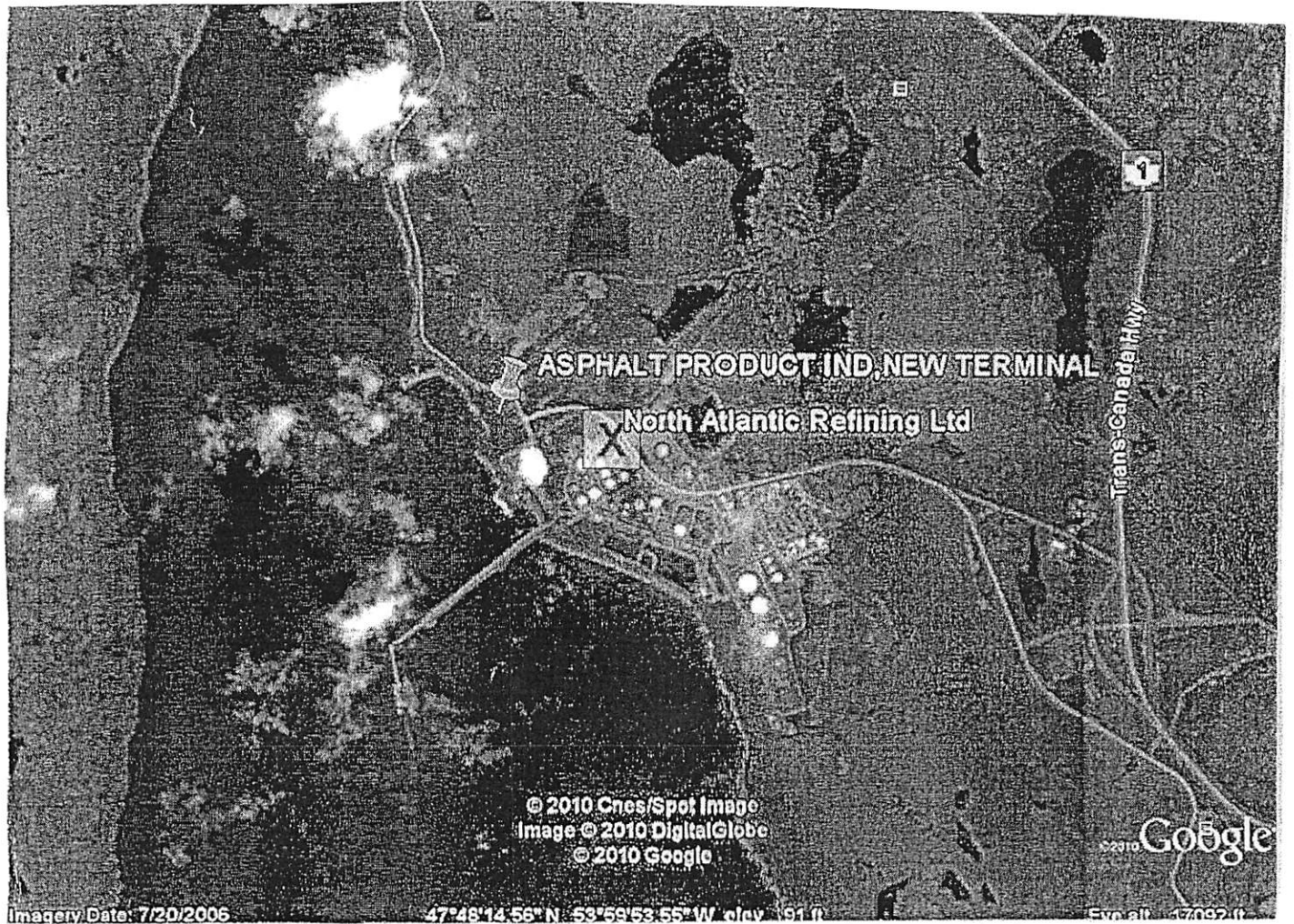
- Asphalt cement will be contained in industry-standard infrastructure and any spilled product will be recovered and returned to the system, therefore the duration of exposure to weathering agents will be short. For these reasons, it is anticipated that impact to storm water runoff or groundwater from spilled asphalt cement will be negligible.
- The berm that surrounds the asphalt cement tanks will contain any releases from the tanking and piping. If released to the environment, the asphalt cement hardens in a very short period of time; therefore it could not realistically reach a water course.
- Less viscous material (i.e., fuels, certain additives) will be stored within secondary containment as required by the National Fire Code and relevant provincial legislation.
- Transfer, fuelling and lubrication of equipment will occur in such a manner as to minimize the possibility of contamination to the aquatic environment. Hoses and tanks will be inspected regularly to prevent fractures and breaks.
- All hazardous materials, including fuels and lubricants, will be handled by trained personnel only. Training will include proper use of spill response equipment. A formal training plan will be put in place as part of the facility management system.
- If a spill were to occur, it will be contained on site, and the AC will be reheated, recovered and placed back in a tank, through portable equipment contracted out.

- Spills will be reported as required under the Environment Protection Act emergencies reporting centre by telephone.
- **Monitoring & Emission Control Equipment:** All emission control equipment will be maintained and operated to the specifications and recommendations of the manufacturer.
- A log of all maintenance activities of critical emission control devices will be maintained. The log will record the following:
 - Identification of the unit
 - Time/date of log entry
 - Nature of event
 - Time and duration of event
 - Action taken

4.4.5 Air Emissions

Sources for VOCs (Volatile Organic Compounds) and particulate matter will be primarily associated with the asphalt storage tanks and hot oil boiler. The hot oil boiler will be maintained to ensure the proper combustion of the fuel. These will be managed with a regular maintenance program.

APPENDIX A



ASPHALT PRODUCT IND, NEW TERMINAL

North Atlantic Refining Ltd

Trans-Canada Hwy

© 2010 Ches/Spot Image
Image © 2010 DigitalGlobe
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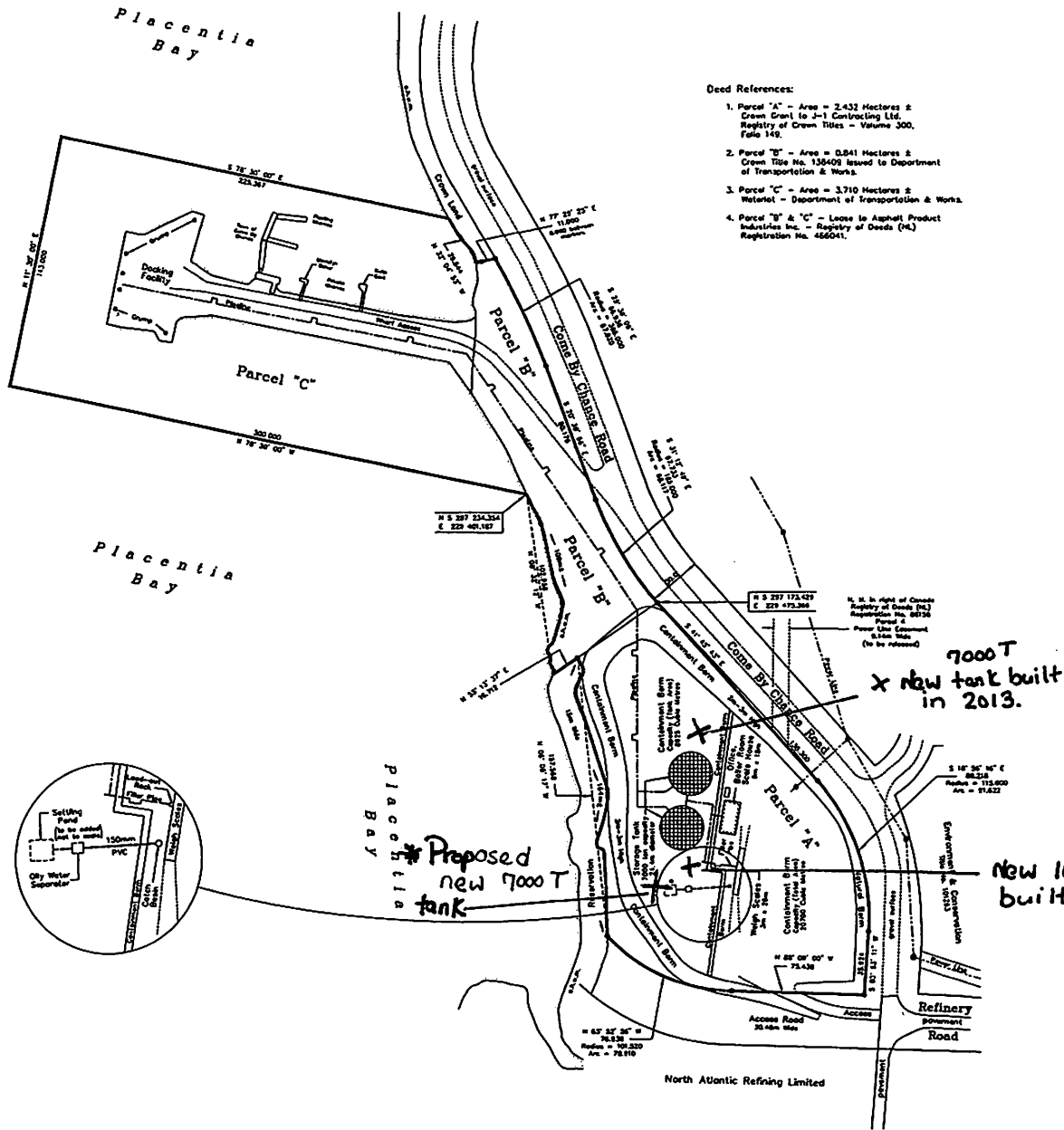
©2010 Google

Imagery Date: 7/20/2006

47°46'14.56" N 53°59'53.55" W elev 191 ft

Elev alt 17092 ft

APPENDIX B



Deed References:

1. Parcel "A" - Area = 2.432 Hectares & Crown Grant to J-1 Contracting Ltd. Registry of Deeds - Volume 300, Folio 149.
2. Parcel "B" - Area = 0.841 Hectares & Crown Title No. 130409 Issued to Department of Transportation & Works.
3. Parcel "C" - Area = 3.710 Hectares & Waterlot - Department of Transportation & Works.
4. Parcel "B" & "C" - Lease to Asphalt Product Industries Inc. - Registry of Deeds (N.S.) Registration No. 456041.



Reference No.	Starting	Ending	Distance
No. 2103044	3 296 674.237	230 899.610	40.703
No. 2103043	3 296 761.723	230 142.619	34.124

No.	Description	Date	By
REVISIONS			

No.	Description	Date	By
	Stamp		

Barrow & Hodder Surveys Ltd.
 NEWFOUNDLAND LAND SURVEYORS
 1 Butler Crescent, Clarenville, NL
 A5A 4E4
 Ph. 466-2927 Fax 466-1278
 email - bhodder100@gmail.com

Project Title
Asphalt Product Industries Inc.
Come By Chance, NL

Drawing Title
Site Plan
Liquid Asphalt Storage and Distribution Facility

Drawn By	DH1	Chk. By	
Date	Sept. 23, 2011	Scale	1 : 1250
Proj. No.	11-075	Sheet No.	1 of 1
Rev. No.			

7000 T
 X new tank built in 2013.

New 1000 T tank built in 2013.

* Proposed new 7000 T tank

North Atlantic Refining Limited

APPENDIX C

CONSTRUCTION PHASE

Occupation	Full/Part Time	Length of Employment	# of Personnel
Welders		3 Months	7
Labourers		3 Months	3
Superintendent		3 Months	1
Engineer			
Draftsperson			
Carpenters			
Office Staff			
Equipment Operator		3 Months	1