June 6, 2017

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
2300 Yonge Street
Suite 2700, P.O. Box 2319
Toronto, ON M4P 1E4

Dear Ms. Walli:

Re: Dubreuil Lumber Inc.
Status of Electricity Distribution System in the Town of Dubreuilville, 60-day Report; EB-2017-0153

As per the Board order dated April 4, 2017, please find accompanying this letter, a report outlining the status of the electricity distribution system in the Township of Dubreuilville.

Following submission of this report, API intends to arrange a follow up meeting with Board Staff to discuss cost recovery and potential next steps in relation to commercial discussions with DLI.

If you have any questions in connection with the above matter, please do not hesitate to contact the undersigned at (705) 941-5697.

Yours truly,

Original Signed by

Tim Lavoie
Vice President, Corporate Services & Indigenous Relations

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Introduction

On April 4, 2017, the OEB issued an order under case number EB-2017-0153 (the "Order") granting Algoma Power Inc. ("API") an interim electricity distribution licence (the "Licence") to operate the electricity distribution system in the Town of Dubreuilville. The Order also required Dubreuil Lumber Inc. ("DLI") to surrender possession and control of the electricity distribution system to Algoma Power Inc.

The purpose of this report is to comply with Section 1(f) of the Order, which requires that API inform the OEB on the status of the electricity distribution in the Town of Dubreuilville including a detailed analysis of the assets and capabilities. As part of this report, API worked with third-party contractors to assess the various aspect of the electrical distribution system. The various assessments have been included in the appendices listed below.

After becoming aware of the Order on April 4, API immediately assembled a transition team to begin providing operational support to DLI, and to communicate with DLI's customers and the township of Dubreuilville. On April 5, API staff met with the CAO for the Town of Dubreuilville to begin discussing transition plans, and to provide reassurance that API would provide emergency operational support as required. API also developed an informational letter to the residents and businesses of Dubreuilville, describing how customers could immediately contact API to report power outages, or inquire about customer service related matters. This letter was delivered to all residents and businesses on April 10**.**

During the week of April 10, API customer service representatives met with DLI employees to review metering, billing and collection processes. API engineering and operations staff met with DLI employees for a high-level tour of DLI's distribution system, and also accompanied the auditor conducting DLI's annual Regulation 22/04 audit. On April 13, a number of API representatives attended a regularly scheduled council meeting in Dubreuilville to answer questions, address concerns, provide reassurance that API was developing plans for a smooth transition, and discuss the possibility and timing of further public town hall sessions.

On May 1, 2017, API engaged two third-party contractors to complete parts of the overall distribution system review. Golder Associates Ltd. was contracted to conduct a Phase One Environmental Site Assessment for the three electrical distribution substations within the Town of Dubreuilville and report on potential environmental concerns ("Golder report"). Costello Utility Consultants was contracted to complete a technical review of the electrical distribution system, including an inspection and assessment on the electrical distribution substations and both the overhead and underground distribution infrastructure ("Costello report").

Metering infrastructure was assessed by API ("API Status of Metering Infrastructure report") to identify the condition of the infrastructure and to highlight any deficiencies and provide recommendations. This report also contains detail on system losses and rate structures.

API also completed a Vegetation assessment ("API Vegetation report"), identifying the state of the right-of-ways on the distribution and sub transmission network. The report also examines vegetation within the substations. Recommendations were provided based on API's vegetation management practices.

API discussed existing customer service and billing procedures with the appropriate staff at DLI to complete a report on the status of these procedures ("API Customer Service report"). The report describes the current customer service and billing practices conducted by DLI staff and identifies areas where these practices fall short of OEB and other regulatory requirements. The report also outlines key steps performed by API staff to date which will ensure a smooth transition with respect to the billing of customers. Additionally, the report outlines considerations which have been made to incorporate DLI customers into the customer service functions performed by API.

DLI provided a copy of the most recent oil sampling and dissolved gas analysis ("DGA report") for the station transformers at Substation #1 and Substation #2. The DGA report was compiled by Power System Solutions and the recommendation and results are included in this report.

API has also been provided the final copy of the 2016 regulation 22/04 audit report ("Audit report") that was completed by a third party independent auditor in April 2017.

List of Appendices

- Appendix A – Golder Phase One Environmental Site Assessment
- Appendix B – Costello Technical Review
- Appendix C – API Metering Infrastructure Report
- Appendix D – API Vegetation Assessment
- Appendix E – API Customer Service Report
- Appendix F – Power Systems Solutions, Dissolved Gas Analysis Report
- Appendix G – 2016 Ontario Regulation 22/04 Audit Report

Status of Electrical Distribution System

Substations

The electrical load in Dubreuilville is supplied by a 44kV circuit fed from the main supply point which ties into API's Number 4 Circuit. This main supply point has historically been primary metered. This 44kV circuit splits in three directions to feed the three DLI distribution substations. Substation #1 feeds a relatively small supply via a 2.4kV delta-connected distribution system. The town's main supply is a 4.16kV grounded wye-connected distribution system supplied by Substation #2. Substation #3 supplies a relatively small industrial load on the

northeastern part of town. The towns overall peak demand in 2016 was 2.3 MW. Single-line diagrams for each station has been included in the Costello report.

Substation #1

Substation #1 is an outdoor substation located adjacent to Herman creek and a gas bar retail station. There are three single-phase station transformers (T1 – Ser#262644, T2 – Ser#262646, T3 – Ser#262645) that supply a relatively small 2.4kV delta-connected load. Due to a failure of the high voltage bushing on transformer T2 that occurred in 2012, the station was connected in a 2.4kV open delta configuration.

The Costello report identified the following:

Issues:

- Station fence is below current industry practices in terms of height and barbed wire configuration.
- Transformer T2 is out of service due to a damage bushing. The current configuration is an unconventional open delta.
- The tap changers on all transformers are unlocked which poses a risk to workers as well as the transformers.
- The operating handle for the 2.4kV load break device is situated directly beneath the oil switch, which is suboptimal for general staff safety.
- Station transformers are beyond expected asset life.

Recommendations:

- Control padlocks should be installed on all transformer tap changers.
- Substation load should be converted to grounded wye system and re-fed from Substation #2. The substation should then be decommissioned.

The Golder report identified the following:

Issues:

- The fill tap on the side of transformer T3 shows evidence of leaking and has staining on the side of the transformer, on the concrete pad below and on the gravel adjacent to the concrete pad.
- There is potential subsurface contamination due to the Gas bar retail station adjacent the substation.

Recommendations:

- A Phase Two Environmental Site Assessment should be completed to establish baseline conditions at this location.

The API Vegetation report identified the following:

Issues:

- There is presence of vegetation growth within the substation and in immediate proximity to the fenced area.

Recommendations:

- It is recommended that spring and fall herbicide treatments be applied to establish a vegetation-free area.

The DGA report indicates that the transformers in the station have 0% PCB content and that analysis found no concerns.

Substation #2

Substation #2 is an outdoor substation located along Industrial Road adjacent to a commercial trucking business. There are three single-phase transformers (T2 – Ser#2165, T3 – Ser#2166, T4 – Ser#0018-1) that supply the majority of the town load through a 4.16kV grounded wye distribution system. A fourth single-phase transformer (T1 – Ser#2164) was previously removed from service due to high levels of metal gases (hydrogen and acetylene) as determined through oil testing.

The Costello report identified the following:

Issues:

- Station fence is below current industry practices in terms of height and barbed wire configuration.
- The tap changers on all transformers are unlocked which poses a risk to workers as well as the transformers.
- Working clearance issue with the low 4.16kV bus conductors and the extremely low 4.16kV neutral conductor.
- There are broken and cracked porcelain insulators.
- All three underground feeders coming out of this substation are directed onto the same wood riser pole. Should this pole fail, the majority of the town's distribution system would be impacted.
- Station transformers are beyond their expected asset life.

Recommendations:

- The fence should be upgraded to meet current industry best practices and crushed stone should be installed around the outside of the station fence.
- There should be a review of operation constraints and potential safety control measures related to the limits of approach and switching procedures.

- Control padlocks should be installed on all transformer tap changers.
- The broken and cracked insulators should be replaced.
- A spare single-phase transformer unit should be acquired for contingency.
- Soil resistivity and ground grid tests should be performed to assess the state of the buried grounding system.

The Golder report identified the following:

Issues:

- Adjacent properties with fuel storage may be cause for environmental concern.

Recommendations:

- A Phase Two Environmental Site Assessment should be completed to establish baseline conditions at this location.

The API Vegetation report identified the following:

Issues:

- There is presence of vegetation growth within the substation and in immediate proximity to the fenced area.

Recommendations:

- Spring and fall herbicide treatments should be applied to establish a vegetation-free area.

The DGA report identified the following:

Issues:

- The transformers in the station have 0% PCB content and that analysis found extremely high levels of hot metal gases in T1.

Recommendations:

- T1 should be taken out of service to be repaired and T4 should be put into service. DLI has completed the work associated with this recommendation.

Substation #3

Substation #3 is an outdoor substation located in the industrial section of Dubreuilville, approximately 1.5 km northeast of the town center. There is a single three-phase transformer (1991 vintage) that supplies a small industrial load through a 4.16kV grounded wye distribution system.

The Costello report identified the following:

Issues:

- Station fence is below current industry practices in terms of height.
- There are broken and cracked porcelain insulators.
- The incoming 44kV load break switch is equipped with a key interlock, but is not interlocked with any device in the station.

Recommendations:

- It is recommended that the fence be upgraded to meet current industry best practices and that crushed stone be installed around the outside of the station fence.
- The broken and cracked insulators should be replaced.
- Soil resistivity and ground grid tests should be performed to assess the state of the buried grounding system.

The Golder report identified the following:

Issues:

- Based on the manufactured date of the transformer, there is no reason to believe there is PCB content, however there is no evidence of previous oil testing and sampling.
- Adjacent properties with fuel storage may be cause for environmental concern.

Recommendations:

- A Phase Two Environmental Site Assessment be completed to establish baseline conditions at this location.

The API Vegetation report identified the following:

Issues:

- There is presence of vegetation growth within the substation and in immediate proximity to the fenced area.

Recommendations:

- Spring and fall herbicide treatments should be applied to establish a vegetation-free area.

The scope of the DGA report did not include this transformer.

Primary and Secondary Overhead and Underground Distribution System

The overhead distribution system consists of a 44kV delta-connected sub-transmission system, a 4.16kV grounded-wye connected distribution system and 2.4kV delta-connected distribution system. During the technical review, Costello completed a visual inspection on the majority of the poles, conductor, pole top transformers and switches within the distribution system and provided a distribution operating map that indicates the general location of these assets. The majority of the poles in the distribution system were inspected as part of the review and appear to be in good condition. 63 pole-mounted transformers were visually inspected and appear to be in adequate condition. Additionally, mainline switch fuses and transformer fuses were visually identified and located on the distribution system operating map.

The underground distribution system consists of several runs of underground cables at various locations connected to 14 pad mount distribution transformers. Costello inspected each pad mount transformer and riser pole and noted that all the cable teck armoured and appeared to be direct buried, but could not be confirmed.

The secondary network within the distribution system is comprised of a combination of overhead and underground, 3-wire and 4-wire services as well as interconnection bus wire between primary distribution poles. No issues with the secondary conductors were observed during Costello's inspection.

The Costello report identified the following issues as a result of their review of the primary and secondary overhead and underground distribution system:

Issues:

- Many of the cross arms have moss covering the top side of the arm.
- The pad mount transformer labelled TXP#3 shows evidence of oil leakage.
- Transformer PCB records could not be provided by DLI.
- A significant portion of the overhead system are backlot construction. This poses challenges in terms of operating and maintaining the system.
- Proximity of overhead electrical plant to a propane filling station.

Recommendations:

- Pole testing should be completed to further assess the condition of poles based on the loads they are required to support.
- Cross arms with moss should be further inspected and replaced as required.
- The pad mount transformer labelled TXP#3 should be replaced immediately and the surrounding area should be remediated.
- A protection and coordination study should be completed to ensure adequate protection is in place.
- The proximity of the propane filling station to the overhead 4.16kV feeder should be addressed.
- All primary and secondary underground cables should be located and mapped.
- All primary underground cable should be tested to determine its general condition.

API assessed the condition of vegetation management for the right-of-ways along the distribution system in order to identify potential safety concerns and to provide an overall requirement for managing the vegetation along the distribution system. The API Vegetation report identified that no immediate concerns were identified that require vegetation management work. The vegetation report also identified the following:

Recommendation:

- Vegetation management should be completed in order to greatly reduce the potential for emergency or demand work.
- Brush clearing, tree trimming and removal work activates should be completed to achieve standard clearances on the right-of-ways.

Metering

API assessed the condition of metering within the distribution system in order to identify potential safety concerns, load capture issues and to provide an overall structure for managing ongoing metering requirements. The API Status of Metering Infrastructure report identified the following:

Issues:

- While the lumber mill was in operation, a large portion of the consumption recorded at the 44kV supply point was used by DLI for the mill and other related facilities, most of which were unmetered. Unmetered loads currently consist of historic DLI related businesses, streetlights and other unknown scattered load.
- With the lumber mill having ceased operations in recent years, the primary disconnect switches associated with the supply to substations supplying the mill have all been opened.
- All meters in Dubreuilville are read manually on a monthly basis. There is no remote communication system, nor are there any provisions for remote drive-by or walk-by reading.

- Dubreuilville is located beyond the reach of API's existing Sensus FlexNet infrastructure.
- All electromechanical meters appear to be past their Measurement Canada seal expiry dates.
- Some meters are inaccessible.

Recommendations:

- Address any remaining unmetered loads by working with DLI, or a subsequent owner of the gas station, to install metering equipment on that facility.
- Work with the Town of Dubreuilville, DLI businesses and other stakeholders to identify and account for any small scattered loads related to lighting or other pole-mounted equipment.
- Until such time as adequate metering is installed on DLI mill assets, API will ensure that these switches remain secured in the open position with locks under API's control.
- API has contacted Sensus with regards to infrastructure options and costs to extend coverage to Dubreuilville. Once these options and costs are developed in more detail, API expects to consult further with OEB staff on this issue.
- Within the next year replace existing electromechanical meters with Sensus smart meters to bring the metering assets into Measurement Canada compliance, while at the same time readying the system for eventual AMI integration.
- Ensure access keys are requested for non-accessible meters.

Operational Management and Customer Service

As part of the asset and capabilities review, API assessed DLI's operational management and customer service processes to understand how DLI was managing the operations of its business. API noticed fairly early on that DLI followed little in terms of process and much of its work was reactive in nature. It should be noted that DLI does not have a dedicated management or operational staff. Instead, it has operated with employees who have served both the lumber mill operation as well as the utility. There are two staff who have or will retire in the very near future. Accordingly, API has assumed that most (if not all) of the plans identified in this report will be implemented using API or 3rd party resources. The following identifies some of the gaps within DLI's operational management structure.

Customer Service

Upon receiving the Order API worked with DLI to understand the customer service and overall billing infrastructure that had previously been employed. API immediately had concerns with the operational process that DLI had to manage customer accounts for billing and settlement purposes.

Issues:

- Some DLI customers only speak French and there is no bilingual customer service staff at API.
- DLI uses a manual billing system.
- DLI uses a manual work order system for new customers, disconnects, etc.
- DLI's billing is erratic, dependent on consumption (not always monthly).
- DLI's billing system was managed through a Thunder Bay office and is not a stand-alone system.
- DLI has no conditions of service.
- DLI has no process in place for meeting OEB monthly reporting requirements.
- DLI has no process for engaging customers on a Distribution System Plan ("DSP"), specific work projects, and public awareness of electrical safety.
- Annual customer satisfaction survey, biannual public safety surveys and Conservation and Demand Management programs have not been established by DLI.

Recommendations:

- API has worked with another FortisOntario utility to translate any communication and messages into french. API has also implemented bilingual messages on the outage information line.
- API has created new records for DLI Customers within API's CIS including major cleansing of DLI records.
- Work requests for move in/out, new connections, disconnections, etc. are now handled within API's work order system.
- API will conduct information sessions on billing and customer service changes for DLI customers.
- API will work with the OEB on DLI's Scorecard reporting requirements.
- API will conduct public safety and customer information sessions.

Health, Safety & Environment ("HS&E")

An integral component of a Local Distribution Company's operations is its HS&E Managed System and its systematic approach to proactively managing safety and the environment. Companies may utilizes an integrated management system for HS&E, consistent with the standards of OHSAS 18001 (Health & Safety) and ISO 14001 (Environment). The HS&E management system is based upon the premise of "Plan, Do, Check and Act". Policies, standards and operational control procedures developed, utilized and updated are a foundation of a strong "Internal Responsibility System", compliance and continual improvement. This is key to the *Occupational Health and Safety Act* and other regulation associated with HS&E.

The DLI territory inherently possesses unique HS&E challenges associated with its geographical location and operations, and would benefit from a having standardized approach to managing HS&E.

Recommendations:

- Establish a HS&E Managed System consisting of the following:
  - Hazard and Barrier Effectiveness Assessment
  - Legal Compliance
  - Performance Indicators

- Policies, Programs and Procedures
- Training
- Public Safety
- Auditing

Regulation 22/04 Compliance

Annually, DLI engaged a third-party independent auditor for the purpose of auditing DLI's compliance with sections 4, 5, 6, 7 and 8 of Regulation 22/04 and to have an audit report written based on the findings of the audit. On April 10-11, 2017, DLI completed its 2016 audit review for which API was in attendance. The key audit finding are that DLI is non-compliance with regards to section 4, 5, 6, 7, and 8.

The third-party independent auditor provided the following recommendations:

- Section 4 and 5: To finalize/approve and implement its inspection and maintenance program for the overhead, underground and substation facilities. To meet the OEB's Distribution System Code Appendix C – Minimum Inspection Requirements.
- Section 6: To finalize/approve and implement its Equipment Approval Process. Maintain a Material List (both major equipment and non-major and retain Certified Test Results approved by a P.Eng.
- Section 7: To finalize/approve and implement its process for approval of plans, drawings and specifications. Ensure that all installation work is based on Standard Designs (that have the associated certificates of approval) and in accordance with Dubreuil Lumber Inc.'s job planning process.
- Section 8: To implement its approved Construction Verification Program (CVP). To train staff on the CVP and have all completed Record of Inspection and Certificate on file for the Auditor to verify.

API intends to tailor audit processes based on the recommendations listed above and also on the audit process API currently employs on its own distribution system.

Asset Management

DLI does not have a Distribution System Plan (DSP) or a Distribution Asset Management Plan (DAMP), which has resulted in reactive management of the distribution system. Asset were typically run to failure and did not follow any sustainment plan. Any asset records that might exist were unable to be provided as there is no asset management system being employed. The fundamental objective of a DAMP is to prudently and efficiently manage the planning and engineering, design, addition, inspection and maintenance, replacement, and retirement of all distribution assets in a sustainable manner that maximizes safety and customer reliability, while minimizing costs, in the short and long terms.

API intends to follow the Refurbishment plan listed in the next section so that it is proactively managing the distribution system and its assets.

Reliability

Historically, when outages occurred on the distribution system, customers would call the electrical superintendent who, being familiar with the distribution system, was able to troubleshoot and respond to the call. Nothing API has seen would indicate that any type of outage management system is in place and as such tracking and analysis of reliability performance has never been achieved.

API takes system reliability seriously and does not rely solely on regulatory requirements as the impetus to maintain performance levels. API subscribes to the philosophy that meeting customer expectations for system performance is part of its asset management objectives.

API intends to investigate options for integrating DLI's distribution system into its own GIS and OMS so that it can better track outage and overall reliability.

Refurbishment/Compliance Plan

API intends to address the deficiencies and recommendations identified by implementing an operating and maintenance plan, as well as a refurbishment plan that will address short term concerns and also ensure that any required material spending is consistent through a medium and long term plan. The plans outlined below are predicated on an ability for API to track the costs and revenues associated with operating DLI's system in a deferral account, as contemplated in the "Order". API intends to inform the OEB of the estimated costs and timing associated with any material projects in advance of incurring such costs. During emergency situations, some costs may be incurred immediately, in which case API will notify the OEB of the emergency situation as soon as practical.

Short-Term Plan

The short-term refurbishment plan will address some of the more immediate concerns that have been identified within the next two years, including overall system losses, contingency, reliability, and public and worker safety. This will include the following:

Substations

- All DLI system protection will be verified and adjusted (if needed), to ensure proper operation.
- Implement a voltage conversion for the Substation #1 and re-route the supply to Substation #2, with the subsequent retirement of Substation #1.
- Perform Phase Two Environmental Site Assessments at each substation location.
- Upgrade the fences at Substation #2 and #3 to meet current industry best practices.

- Install crushed stone around the outside fences at Substation #2 and #3.
- Install control padlocks on the transformer tap changers within Substation #2 and #3 (currently being addressed).
- Implement a semi-annual herbicide treatment plan to address the vegetation growth inside and immediately adjacent to Substation #2 and #3.
- Investigate contingency options for Substation #2.
- Perform a dissolved gas analysis for each station transformer.
- Perform soil resistivity and ground grid tests to determine the state of the grounding systems.
- Replace the broken porcelain insulators identified at Substation #2 and #3.

Overhead/Underground Distribution

- Perform pole testing to determine the residual strength left in all poles in the system.
- Implement a fuse replacement program that will ensure adequate protection and coordination is in place.
- Replace the pad mount transformer (TXP#3) and exercise appropriate soil remediation.
- Acquire oil samples for all the pole top and pad mount transformers to determine the level of PCB content.
- Implement a vegetation management program.
- Locate and map all the secondary network and incorporate that information into the system operating diagram.
- Investigate options for the testing of primary underground cables.

Metering

- Meter the identified unmetered loads.
- Replace all the electromechanical meters with Sensus electronic meters.
- Address any remaining unmetered loads.

Medium- and Long-Term Plan

The medium- and long-term plan will address some of the concerns that have been identified that do not require immediate action. API intends to complete an Area Planning Study for the entire distribution system that would supplement the development of a distribution system plan. The specific action items include:

Substations

- Rebuild/Replace Substation #2.
- Implement any recommendations resulting from Phase Two Environmental Site Assessments as required at each substation location.
- Continue applying the semi-annual herbicide treatment to manage vegetation within the substations.
- Perform annual dissolved gas analysis on each of the station transformers.

Overhead/Underground Distribution

- Install a 44kV load break switch at the boundary between the town and the Lumber Mill Property.
- Implement a crossarm replacement program, informed by more detailed aerial inspections, and with consideration of aligning with pole replacements if necessary.
- Implement a sustainable pole replacement program.
- Develop a Distribution System Plan and consider asset replacement programs based on asset condition assessment.

Metering

- Implement an adequate AMI network that will cover the Town of Dubreuilville.
- Monitor system losses month-to-month and year-to-year to determine is further investigation is required.

Appendix A

Golder Associates - Phase 1 Environmental Site Assessments

May 26, 2017

ALGOMA POWER INC.

PHASE I ENVIRONMENTAL SITE ASSESSMENTS DUBREUILVIELLE, ONTARIO

Submitted to:
Mr. Michael Degilio
Algoma Power Inc.
2 Sackville Road
Suite A
Sault Ste. Marie, Ontario
P6B 6J6

REPORT

Report Number: 1779503
Distribution:
Electronic Copy - Algoma Power Inc.

Golder Associates

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APPENDICES

1.0 INTRODUCTION

Golder Associates Ltd. (Golder) was retained by Algoma Power Inc. (API) to conduct Environmental Site Assessments (ESAs) for three electrical distribution substations in Dubreuilville, Ontario. Golder understands that the substations are situated at the following approximate locations.

Table 1: Substation Locations

Substation	UTM Zone	Easting	Northing
Substation 1	16U	681942.13 mE	5358401.15 mN
Substation 2	16U	681835.48 mE	5358092.39 mN
Substation 3	16U	682981.04 mE	5359295.96 mN

1.1 Background and Objectives

Information provided to Golder by API, as well information contained in an April 6, 2017 letter issued by the Ontario Energy Board (OEB) to the residents and businesses of Dubreuilville indicates the following:

- Dubreuil Lumber Inc., the former operator of the electrical distribution system in Dubreuilville, informed the OEB that it will not be renewing its licence to distribute power locally;
- OEB issued an order to API to operate the electrical distribution system for the Township of Dubreuilville; and
- Under the terms of the OEB order, API is required to submit to the OEB within 60 days of the date of the order a status report on the electricity distribution system in Dubreuilville.

We understand that API is seeking information on the environmental condition of the electrical distribution substations, particularly with respect to any issues that could present an environmental liability for API. We further understand that the nature of the order is such that Dubreuil Lumber Inc. will retain ownership of the property on which the substations are located.

2.0 SCOPE OF WORK

A Phase I ESA is designed to identify and report on evidence of actual and/or potential environmental impact at the Site. The results of the Phase I ESA also provide the basis for further, intrusive, environmental site assessment (Phase II ESA), and/or risk assessment and management, if considered necessary. In the context of the ownership of the substation properties being retained by Dubreuil Lumber Inc., the objective of intrusive site investigation would be to evaluate baseline soil and groundwater conditions against which any changes during the course of API's operations could be assessed.

Golder conducted the Phase I ESA in accordance with the principal components of the Canadian Standards Association standard CSA Z768-01 (R2012) - Phase I Environmental Site Assessment. The assessment focuses on an investigation of historical uses of the Site and areas immediately surrounding the Site, to identify known and potential sources of contamination at the Site and on adjacent properties. Where warranted, and if information sources were available, Golder carried out the following activities:

- Land Ownership and Occupancy Records and Business Directory Review;
- Review of Historical Aerial Photographs and Maps – A search of available aerial photographs was conducted to help develop an understanding of the development history of the Site and surrounding properties.
- In addition, fire insurance records and historical topographic and Site development maps, if available, were reviewed to determine general land use history.
- Review of Regulatory Agency Records – as municipal addresses were not available for the substation sites, records searches could not be completed through the Ontario Ministry of the Environment and Climate Change (MOECC). However, a review of the MOECC spill records database was available through EcoLog Environmental Risk Information Services Ltd. (EcoLog ERIS) as described below;
- EcoLog ERIS – To further investigate the current status of the Site and vicinities, Golder accessed a number of public and private environmental databases to obtain relevant information concerning the usage, storage, treatment, and disposal of hazardous substances. EcoLog ERIS of Don Mills, Ontario was subcontracted for this service. Pertinent and available databases and inventories were reviewed to determine if the Site and surrounding properties are listed. The Sites were searched for the CSA-recommended search radius of 250 metres surrounding each of the subject properties;
- Review of Site Records – While on-Site, Golder requested to review environmental files and documentation about on-site operations including, but not limited to, the following:
  - Previous environmental reports and monitoring files;
  - Regulatory authority correspondence files;
  - Certificates of Approval or Environmental Compliance Approvals, Permits or Violation Notices;
  - Maintenance and repair files;
  - Waste handling, storage and disposal files;
  - Hazardous and solid waste management practices;
  - Material Safety Data sheets (MSDSs);
  - Records related to the management of wastewater and storm water discharges;
  - Historical and current Site services; and
- Incident reports and follow-up records.
- Site Visit – Site visits were conducted on May 9, 2017 and focused on the visual identification of evidence of actual or potential environmental impact, and/or review of the findings from historical information and interviews. Golder reviewed readily available information on the Site and, where applicable, on adjacent properties to the Site and publicly accessible locations, including but not limited to the following:
  - hazardous material and hazardous waste storage or disposal areas including sumps, pits, ponds and landfills;

- aboveground and underground storage tanks and associated supply lines;
- potable water sources within 250 metres;
- electrical transformers and capacitors;
- abandoned and existing wells;
- evidence of groundwater wells, cisterns, cess pools, or septic tanks;
- evidence of recent spills;
- barren or discoloured unpaved surface conditions, including signs of dead and stressed vegetation;
- the presence of any recent soil disturbances such as soil removal, filling, tilling and grading;
- presence of natural waterways or marsh lands;
- presence and condition of surface water discharges; and
- abnormal odours/noise associated with the Site, whether from on-site or off-site sources.

Golder gathered available information on the presence of PCBs, asbestos-containing materials ("ACMs"), mould, chlorofluorocarbons ("CFCs"), mercury, and lead-based paints ("LBPs") to the extent required by CSA Z768-01 Phase I Environmental Site Assessment through a cursory visual reconnaissance and interviewing knowledgeable site representative(s). Golder did not undertake sampling of these materials as part of the Phase I ESA scope.

3.0 HISTORICAL RECORDS SEARCHES

3.1 Fire Insurance Plans

Golder contacted Opta Information Intelligence (Opta) of Markham, Ontario to conduct a search of historical fire insurance plans or underwriting reports for the subject properties. No results were available in Opta's databases.

3.2 Aerial Photographs

Aerial photos from 1952, 1962 and 1976 were obtained for the sites and surrounding areas through EcoLog ERIS. Details regarding the specific site locations were not visible on the photographs given their scale. Information regarding the area including the substation sites are as follows:

- The 1956 aerial photograph indicates that the area of Dubreuilville inclusive of the sites consisted of undeveloped forested land. The Algoma Central Railway line is visible to the east of the area now occupied by the Sites.
- The 1962 aerial photograph depicts a cleared area with a number of small, apparently residential, structures as well as an apparent sawmill facility.
- In the 1976 aerial photograph, the sawmill and apparent residential area observed in the 1962 aerial photograph are visible. The residential area has expanded to the southwest relative to the configuration in 1962.

Based on the areal photographs, it appears that the areas of Substations #1 and #2 were developed at some time between 1956 and 1962, while the area of Substation #3 had been developed between 1962 and 1976.

4.0 ERIS RECORDS SEARCH FINDINGS

The following section provides a summary of the information obtained from the Environmental Risk Information System (ERIS) Reports obtained from EcoLog ERIS for the three substations. It should be noted that subsequent to the procurement of the ERIS reports, Golder was notified by API that the designations of Substations #1 and #2 were switched. The listings below reflect the corrected site designations, which differ from the designations provided on the ERIS reports provided in Appendix C.

Substations #1 and #2

The ERIS reports for Substations #1 and #2 contained no listings for the subject properties. The report for Substation #1 contained 36 off-site listings within 250 metres of the property. The report for Substation #2 contained 38 off-site listings within 250 metres of this property. Given the proximity of Substation #1 and #2 to one another, there was overlap between the listings in the two reports. Listings that were common to both reports are listed in Table __ below:

Table 2: ERIS Report Listings for Substations #1 and #2

	Description	Distance from Substation #1	Distance from Substation #2
1	Environmental Compliance Approval (ECA) listings for Dubreuil Forest Products Ltd. at 21 Rue Des Pins. One is a 1997 cancellation of an air ECA for an Energex Dry Kiln System, one is a 1997 ECA for air discharge, and one is a 2000 ECA for air discharge.	205 m southwest (SW)	174 m north-northwest (NNW)
2	Three Environmental Bill of Rights (EBR) Registry listings listed under Dubreuil Forest Products Ltd.	205 m SW	174 m NNW
3	Eight fuel storage tank listings issued to Dubreuil Lumber Inc. Four 45400 L steel diesel USTs installed in 1990; One 45400 L steel gasoline UST installed in 1989; One 45400 L steel gasoline UST installed in 1990; One 45400 L steel gasoline UST installed in 1989; and One 45400 L steel gasoline UST installed in 1989. These listings are identified as being associated with a Gasoline Station - Card/Keylock facility.	205 m SW	174 m NNW
4	Two Historic Fuel Storage Tank listings under Dubreuil Forest Products Ltd. at 21 Pine Street.	205 m SW	174 m NNW

	Description	Distance from Substation #1	Distance from Substation #2
5	Eight listings for Ontario Regulation 347 Waste Generators. Six of these were listed under Dubreuil Forest Products at 21 Pine Street for waste classes 112 Acid Waste - Heavy Metals, 213 - Petroleum Distillates, 232 - Polymeric Resins, 252 - Waste Oils & Lubricants.		174 m NNW
6	Three Federal PCB Inventory Listings under Dubreuil Forest Products Limited at 21 Pine Street. These included listings for: A December 30, 1995 listing for the storage of Askarel for disposal; An undated listing for the storage of three capacitors with Askarel for disposal; and Storage of three Capacitors with high level PCBs (>1000 ppm), with a total weight of 52 kg	205 m SW	174 m NNW
7	Five Ontario PCB Inventory listings under Dubreuil Forest Products Limited at 21 Pine Street. These listings are dated 1998, 1999, 2000, 2003, and 2004, and reference the storage of three capacitors with high-level PCBs (>1000 ppm), having a total weight of 52 kg.	205 m SW	174 m NNW
8	One listing under the pesticide register database indicating a Vendor's permit issued to Lacroix Enterprises Ltd. at 21 Rue des Pins.	205 m SW	174 m NNW
9	One listing under Scott's Manufacturing Directory, for Dubreuil Forest Products Ltd. at 21 Pine Street, indicating SIC/NAICS codes 321111 and 321999 (Sawmills – except shingle and shake mills).	205 m SW	174 m NNW
10	One listing under the Ontario Waste Disposal Sites referencing a facility registered to 2288016 Ontario Inc. at 21 Rue des Pins. A corresponding Approval under Part V of the Environmental Protection Act was issued to 2288016 Ontario Inc. for the operation of a wood waste disposal facility having a total area of 28 hectares.	205 m SW	174 m NNW
11	One listing under the Ontario Water Well Information System (WWIS) database, located at an unspecified address. This listing is for an unused and abandoned well installed on December 10, 1965.	88 m northwest (NW)	237 m west (W)

Based on Golder's site reconnaissance observations, it appears as though the references to 21 Pine Street actually refer to the Dubreuil Forest Products' corporate offices, while most of the referenced conditions appear to refer to the mill facility. The mill is located approximately 20 metres across the creek from Substation #1, approximately 300 metres away from Substation #2 and approximately 575 metres away from Substation #3.

There were a number of unplottable listings, the following which appear to relate primarily to the Dubreuil Forest Products sawmill site, including:

- An ECA for air discharge dated July 1994 for cyclone separators for a lumber dry kiln;
- An ECA for two cyclones for lumber drying kiln system dated April 1998; and
- An ECA for municipal sewage works dated August 31, 1988.
- An April 22, 1990 spills report which indicated that MNR discovered a leaking valve on a used oil storage tank on the Dubreuil Lumber Yard near Herman Creek. The receiving medium was identified as land, and the possible impacts were identified to a water course or lake.
- A May 17, 2004 spill report indicated that a spill of sand occurred from the Dubreuil Forest Products Mill Yard to a watercourse with possible resultant surface water pollution.

Additional unplottable listings that were unrelated to the Dubreuil Forest Products Mill Yard included the following:

- An ECA for municipal water supply issued to Adventure Construction on Rue des Pins dated September 27, 1988;
- Municipal and private water treatment plant ECAs; and
- Two spills listings related to the Corporation of the Township of Debreuilville, as follows:
  - A July 16, 2010 spill report which indicated 748 m^3 of chlorinated water reported to have been spilled to land through an overflow of the Debreuilville Reservoir; and
  - A February 16, 2010 spill of 91 L of liquefied chlorine to land and water through operator error, identified as contributing to possible groundwater pollution, soil contamination and surface water pollution

Listings that are unique to the Substation 1 report include the following:

Table 3: Listings unique to Substation #1

	Description	Distance from Substation #1
1	A water well listing for an abandoned test well drilled on December 20, 1965.	87.7 m NNW
2	A water well listing for a municipal supply well drilled on October 20, 1981	135.81 m north-northeast (NNE)
3	A listing for a municipal water supply test well drilled on October 3, 1981	230.0 m NNE
4	A report on a spill incident that occurred on January 21, 2002 in which 450 L of diesel fuel was released to a ditch from a container leak at the corner of Dree Rd. and Franz Rd.	Not specified. Reported as being 11 km north of Dubreuilville

Listings that are unique to the Substation 2 report include the following:

Table 4: Listings unique to Substation #2

	Description	Distance from Substation #2
1	Two listings for commercial fuel oil tanks listed under the Dubreuilville RCSS Board. These appear to be duplicate listings at 1 Avenue du Parc. One listing is for a 3000 gal fibreglass tank installed in approximately 1991, and the second listing is a double-walled fiberglass UST of 13,638 L capacity.	247 m SSW
2	Two O. Reg. 347 Waste Generator listings under the Conseil Scolaire Public due Gran Nord for waste classes 148 – Miscellaneous Wastes and Inorganic Chemicals and 252 – Waste Oils and Lubricants.	226 m SSW

Substation 3

The ERIS report for Substation #3 contained no listings for the site itself or for the surrounding properties within 250 metres of the site.

Thirteen unplottable listings associated with the Algoma Central Railway. One listing was for a conviction related to charges laid on December 6, 2000 related to a transfer of waste sulfuric/hydrochloric acid in contravention of Ontario Regulation 347. The remainder of the listings were for spills that took place on the Algoma Central Railway between 1988 and 1998. Details of these spills are as summarized in Table _ below:

Table 5: Summary of off-site ERIS listings

	Date of Release	Material Released and Quantity	Description of Release	Receiving Medium	Environmental Impact
1	August 12, 1991	9000 L of diesel fuel	Release to ground and to Hobon Lake; cause unknown	Land and water	Identified as being possible
2	April 13, 1994	550 tonnes of sinter (slag)	Release to ground and to a creek caused by a derailment	Land and water	Identified as having been confirmed
3	January 24, 1998	Unknown amount of diesel fuel	Release to ground from a derailed locomotive	Land	Identified as being possible
4	August 21, 1997	400-500 L of an unspecified substance (inferred to be diesel fuel)	Release from a locomotive fuel tank	Land	Identified as confirmed
5	May 29, 1997	900 L of diesel fuel	Release from a valve/fitting leak or failure	Land	Identified as being possible
6	September 14, 1993	41 cubic metres of diesel fuel and 900 metric tonnes of ore	Release of diesel fuel to the river and release of ore onto the rail bank due to a derailment	Land and water	Impact to land and water was confirmed

	Date of Release	Material Released and Quantity	Description of Release	Receiving Medium	Environmental Impact
7	July 10, 1992	450 L fuel spill	Release from a tank along the roadway, caused by a rockslide	Land	Identified as confirmed
8	April 24, 1990	At least 25,000 L of diesel	Release of to a creek - associated with a derailment	Water	Identified as confirmed
9	March 29, 1988	1,350 L of furnace oil	Release to ground associated with a valve/fitting leak or failure	Land	None reported
10	July 10, 1995	4500 L of diesel fuel	Release to ground from a pipe or hose leak	Land	Identified as possible
11	October 31, 1994	70 L of diesel fuel	Release to ground from a storage tank due to a valve/fitting leak or failure	Land	Identified as possible
12	June 7, 1994	225 L of diesel fuel	Release to ground due to a container leak	Land	identified as confirmed

Golder's review of the location information for these listings suggests that they represent spills along the entirety of the Algoma Central Railway (ACR) line, and are not specific to the section of the line within 250 metres of Substation 3. Listing 1 is situated approximately 9.5 kilometers northeast of Substation #3 and represents the nearest listing to Substation #3. On this basis, these listings do not reflect a likelihood of environmental impacts to Substation #3.

The listings in the ERIS report did not indicate the potential for soil or groundwater contamination on the substation properties. Listings related to the storage of PCB-containing capacitors may indicate equipment that was removed from the substations and transferred to the mill property pending disposal.

5.0 SITE FINDINGS

The following sections describe the findings specific to each of the distribution stations investigated by Golder on May 9, 2017.

Golder was accompanied during the Site visits by Mr. Luc Belanger, Electrical Superintendent with Dubreuil Forest Products (Site Representative) and Mr. Michael Degilio of Algoma Power/Fortis (Fortis Representative). Two representatives from Costello Utility Consultants were concurrently visiting the sites.

The Site Representative is an electrical lines superintendent with Dubreuil Forest Products and worked at the lumber mill for 42 years. He has been responsible the three distribution stations for most of these years. He has indicated that there are documentation and records in filing in regards to the annual sampling of the transformer oil; however copies have not been provided to Golder at the time of writing this report.

5.1 Substation #1

Site Information

The Distribution Station (DS) generally labelled Substation #1 is located in The Corporation of the Township of Dubreuilville, Ontario at the intersection of several roads: Rue de Pins, Rue Magpie, Rue des Pinettes and Chemin Industrial.

The Site is located immediately adjacent to the Herman Creek near the crossing over the creek and gate to the former Debruil Forest Products lumber mill site. Substation #1 of a fenced transformer station yard with three step-down transformers (44 kV to 2400V) located on a concrete pad.

Surrounding properties are as described below:

- North: Herman Creek followed by former lumber site and Magpie River;
- East: Herman Creek crossover to former lumber mill site;
- South: Gasoline retail station followed by mixed residential/commercial area; and
- West: Gasoline Retail Station followed by residential area.

Existing Reports

No existing reports were provided.

Other info: the substation is located within the well source head protection area of the municipal wells (0-50 day TOT)

Site Visit Observations

The Site visit was conducted on May 9, 2017. The weather conditions were dry and cloudy with no snow cover at the time if the visit.

Three transformers (T1, T2 and T3 see photo appendix for labelling) are located on a concrete pad within the fenced DS. The ground surface is gravel. Two of the transformers are operational (T1 and T3) while one (T2) is out of service due to a damaged bushing. The three transformers appear to be of the same vintage and the Site representative indicated that the manufacturing year for these transformers are assumed to be in the 1960's. The manufacturing year could not be identified on the information plate.

Transformer Oil Details: Each of the transformers contain 270 gallons (1022 liters (L)) of oil. The Site representative indicated that the oil was tested annually in the past and does not contain PCBs, however: no documentation had been provided to Golder supporting this statement at the time of writing this report. The fill tap on the side of transformer T3 shows evidence of leaking and has staining on the side of the transformer, on the concrete pad below as well as on the gravel adjacent to the concrete pad. Some wet staining is also present on the sides of the transformers around all taps of all three transformers. Three oil filled breakers were also noted above transformer T3, however the oil content is unknown.

Designated Substances: No buildings are located at the site. With regards to designated substances associated with the transformers and concrete pad; it is assumed that lead paint is present on the transformers and silica is present in the concrete pad.

Contaminated Land: Oily staining was observed on the concrete pad by transformer T3 as well as on the gravel surface adjacent to the concrete pad on the northwest side.

The Site representative indicated that to his knowledge no major work has been conducted at this substation and no soil removal or other environmental work has been done at the transformer yard. The Site representative reported that in the past surface runoff from the gasoline station would pool at the transformer yard during heavy rains and snow melt. A retaining wall was constructed approximately 2 years ago to ease this flooding and pooling.

5.1.1 Surrounding Land Uses

A gasoline retail station is located immediately adjacent to, and directly upgradient of, the substation. Two underground storage tanks (USTs) and two pumps (diesel and gasoline) are located within 25 meters of the substation. An above ground heating oil fuel tank is located northwest of the substation by the apartment (mine staff residences) building. This tank is located approximately 70 meters cross-gradient of the substation. A steel drum with unknown content is located beside a hydro pole approximately 15 meters north of the substation. There is a transformer mounted on the pole, the oil content is unknown. No obvious staining was observed below the pole. A pole mounted transformer is also located 75 meters west of the substation near the portable office building. The oil content is unknown, obvious no staining was observed below the pole.

(There is also a diesel pump and assumed UST located on the opposite side if Herman Creek near the bank of the creek on the former lumber mill site.)

5.1.2 Issues of Potential Environmental Concern

Issues of Potential Environmental Concern associated with Substation #1 include the following:

- It is not confirmed if the oil in the transformers contain PCB or has in the past.
- The leak around transformer T3 is potentially an environmental concern. The staining on the gravel outside the concrete pad indicates oil has entered the ground surface and the extent of any soil or groundwater impact is unknown.
- Potential past pesticide use within the yard for weed control.
- The gasoline service station immediately adjacent to the substation is a potential concern of subsurface contamination.

5.2 Substation #2

Site Information

The DS generally labelled Substation #2 is located in The Corporation of the Township of Dubreuilville, Ontario at the west end of Chemin Industrial.

Surrounding properties are as described below:

- North: Road (Chemin Industrual), a sewer lift station beyond which were commercial properties (CF Moto Auto Repair Shop) followed by residential;
- East: Commercial (Keith Spencer Trucking) beyond which was a wooded area ("knob") and commercial land uses;
- South: Commercial (Keith Spencer Trucking) land use, beyond which was a wooded area; and
- West: Road turnaround (Chemin Industrial) beyond which was a small creek/water filled ditch and wooded area followed by a school.

Existing Reports

No historical documents were available at the time of preparation of this report.

Site Visit Observations

Three stepdown transformers (T1, T2 and T3 see photo appendix for labelling) (44 kV to 4160V) are located on a concrete pad (1.5 m x 11 m) within the fenced DS (15m x 21 m). A fourth, out of service transformer (T1) is located off the concrete pad, placed on wood. The ground surface is gravel. According to the information plate T1 was manufactured in 1987 while T2, T3 and T4 were manufactured in 1964. Three transformers are stored on wooden pallets adjacent to the gate inside the fenced yard. These transformers were reportedly placed there on May 8 and were brought from another location – the transformers are stored while awaiting testing of the oil.

Transformer Oil Details: Transformer T1 contains 1516L of oil while T2, T3 and T4 each contain 698 gallons (2642 L) of oil. The Site representative indicated that the oil was tested annually in the past and does not contain PCBs, however: no documentation had been provided to Golder supporting this statement at the time of writing this report. Minor wet oil staining was noted on the sides of all transformers near fill taps and/or valves.

Designated Substances: No buildings are located at the site. With regards to designated substances associated with the transformers and concrete pad; it is assumed that lead paint is present on the transformers and silica is present in the concrete pad.

Contaminated Land: No obvious oil staining was observed on the concrete pad or gravel surface. The Site representative indicated that to his knowledge no major work has been conducted at this substation and no soil removal or other environmental work has been done at the transformer yard.

5.2.1 Surrounding Land Uses

Keith Spencer Trucking, a commercial business, is located immediately adjacent to the substation. A warehouse/garage building was noted and on this property as well as stored portable office/boarding units. At the back of the property are vehicles, portable fuel tanks and trailers etc. Two above ground fuel storage tanks are located at the west side of the building approximately 50 meters from the substation.

To the north of the substation is an open area and a sewer lift station, a steep hill where residences along Rue Des Pinettes are located. To the northeast along Chemin Industrial is an auto repair shop approximately 80 meters

northeast of the substation. It is assumed fuel and/or waste oil storage is associated with this business however no tanks were visually observed from the road during the Site visit.

Other commercial properties are located further east along Chemin Industrial. Fuel storage may be associated with any of the commercial or residential properties in the vicinity of the substation.

5.2.2 Issues of Potential Environmental Concern

The Keith Spencer Trucking property is interpreted to be up or cross-gradient of the substation. The ground surface is flat and there is a small creek to the west which may influence the shallow groundwater gradient. Potential fuel leaks or spills at this property may pose a potential environmental concern.

If major spills or leaks have occurred at the Auto Repair shop northeast of the substation it may be a potential issue of environmental concern.

5.3 Substation #3

Site Information

The DS generally labelled Substation #3 or "the commercial substation" is located in The Corporation of the Township of Dubreuilville, Ontario, on Parc Industriel which is located approximately 1.5 kilometers (km) northeast of the town and approximately 600 m northeast of the lumber mill site at the end of the hydro corridor running from the mill to the industrial park.

Surrounding properties are as described below:

- North: Commercial (G. Perth Trucking company) followed by Parc Industriel, across which is commercial/industrial properties along Parc Industriel followed by wooded area;
- East: Commercial (G. Perth Trucking company) followed by commercial/industrial properties along Parc Industriel;
- South: Wooded area and hydro corridor (southwest) to the lumber mill site; and
- West: Wooded and open area sloping down to the Parc Industrial access road.

Existing Reports

No historical documents were available at the time of preparation of this report.

Site Visit Observations

One stepdown transformer (T1) (44 kV to 2400V) is located on a concrete pad (5 m x 5 m) within the fenced DS (10 m x 10 m). The ground surface is gravel. According to the information plate T1 was manufactured in 1991.

Transformer Oil Details: Transformer T1 contains 1673 L of oil. The Site representative indicated that the oil was tested annually in the past and does not contain PCBs, however: no documentation had been provided to Golder supporting this statement at the time of writing this report. Based on the age of the manufacturing of

transformer it is assumed it does not contain PCB. (A yellow sticker was noted on the side of the transformer which may have provided information on PCB content, but it was not readable.)

Minor wet oil staining was noted on the side of the transformers near taps and/or valves.

Designated Substances: No buildings are located at the site. With regards to designated substances associated with the transformers and concrete pad; it is assumed that lead paint is not of a concern based in the manufacturing of the transformer (1991), and that silica is present in the concrete pad.

Contaminated Land: No obvious oil staining was observed on the concrete pad or gravel surface. The Site representative indicated that to his knowledge no major work has been conducted at this substation and no soil removal or other environmental work has been done at the transformer yard.

5.3.1 Surrounding Land Uses

G. Perth Trucking company, a commercial business, is located immediately adjacent to the substation surrounding the substation from north to east of the substation. East is interpreted to be upgradient of the substation. A warehouse/garage is located on the property as well as a shed, stored vehicles, abandoned fuel tanks and scrap. An aboveground fuel storage tank, assumed to contain diesel, was observed immediately to the west of the building. The Site representative indicated that a large amount of scrap used to be found closer to the substation while this scrap is now more orderly and closer to the warehouse/garage building. The ground surface immediately surrounding the substation to the east was observed with random dark staining, some rail ties and wood scrap. A shed with unknown content is located immediately adjacent to the substation and an abandoned fuel tank is lying beside the shed. Scrap tires, vehicles, tanks and other scrap materials are located along the west side of the building.

Other commercial/industrial properties are located further along Chemin Industrial. They appear to be logging and other mining or lumber support businesses. Fuel storage may be associated with any of these properties.

5.3.2 Issues of Potential Environmental Concern

The G. Perth Trucking property is interpreted to be up-gradient of the substation. The ground surface is sloping directly towards the substation. Potential fuel leaks or spills at this property associated with fuel storage and scrap may pose a potential environmental concern to the subsurface.

6.0 SUMMARY AND CONCLUSIONS

A summary of the issues of potential environmental concern associated with the properties reviewed as part of this assessment is provided below.

Table 6: Summary of Issues of Potential Environmental Concern

Site	Issue of Potential Environmental Concern	Significance
Substation #1	Potential of historic PCB content. On-going leak from transformer T3 with staining on the concrete pad and gravel surface. Gasoline retail station immediately adjacent.	Residual soil impacts, if present, could be addressed if future Site upgrades are undertaken.
Substation #2	Potential of historic PCB content. No issues of potential environmental concern were identified within the substation. Adjacent properties with fuel storage.	
Substation #3	Up-gradient fuel storage and random scrap and spills.	

With respect to the potential for subsurface soil and groundwater impact at Substation #1, the potential implications of this issue to API may depend on the structure of the agreement or order under which API will take on responsibility for existing and future environmental conditions on the Site. If API is responsible for environmental conditions that develop during the course of its operations, then an assessment of baseline conditions on Substation #1 may be warranted.

7.0 LIMITATIONS AND USE OF REPORT

This report (the "Report") was prepared for the exclusive use of Algoma Power Inc. for the express purpose of providing advice with respect to the environmental condition of the Site. In evaluating the site, Golder Associates Ltd. has relied in good faith on information provided by others as noted in the Report. We have assumed that the information provided is factual and accurate. We accept no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or fraudulent acts of persons interviewed or contacted.

Any use which a third party makes of this Report, or any reliance on or decisions to be made based on it, are the sole responsibility of the third parties. If a third party require reliance on this Report, written authorization from Golder is required. Golder disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

The scope and the period of Golder's assessment are described in this Report, and are subject to restrictions, assumptions and limitations. Except as noted herein, the work was conducted in accordance with the scope of

work and terms and conditions within Golder's proposal. Golder did not perform a complete assessment of all possible conditions or circumstances that may exist at the site referenced in the Report. Conditions may therefore exist which were not detected given the limited nature of the assessment Golder was retained to undertake with respect to the Site and additional environmental studies and actions may be required. In addition, it is recognized that the passage of time affects the information provided in the Report. Golder's opinions are based upon information considered at the time of the writing of the Report. It is understood that the services provided for in the scope of work allowed Golder to form no more than an opinion of the actual conditions at the Site at the time the site was visited, and cannot be used to assess the effect of any subsequent changes in any laws, regulations, the environmental quality of the site or its surroundings. Asbestos and mould surveys were not performed. If a service is not expressly indicated, do not assume it has been provided.

The results of an assessment of this nature should in no way be construed as a warranty that the Site is free from any and all contamination from past or current practices.

8.0 CLOSURE

We trust that this report meets your immediate requirements. If you have any questions regarding the content of this report, please do not hesitate to contact this office.

Report Signature Page

GOLDER ASSOCIATES LTD.

Jeanette McIntyre
Environmental Specialist

Steve Desrocher, M.Sc., P.Geo
Associate, Senior Contaminant Hydrogeologist

JM/SD/sa

https://golderassociates.sharepoint.com/sites/12627g/deliverables/final/1779503 final phase i esa report-26may2017.docx

APPENDIX A

Site Photographs

Photo 1: Overview of DS looking East

Photo 2: Overview of DS looking Northwest

Photo 3: Photo taken from opposite side of river, on the mill property. Showing DS proximity to the water course.

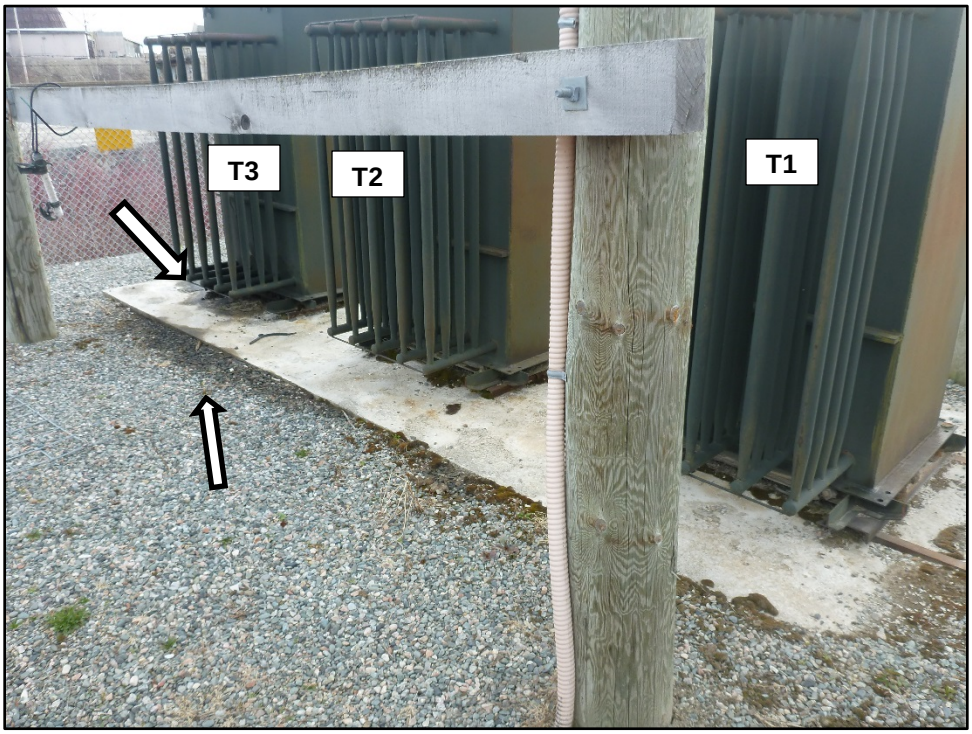


Photo 4: North side of transformers and concrete pad. Staining around the third (T3) transformer and on gravel outside concrete pad.

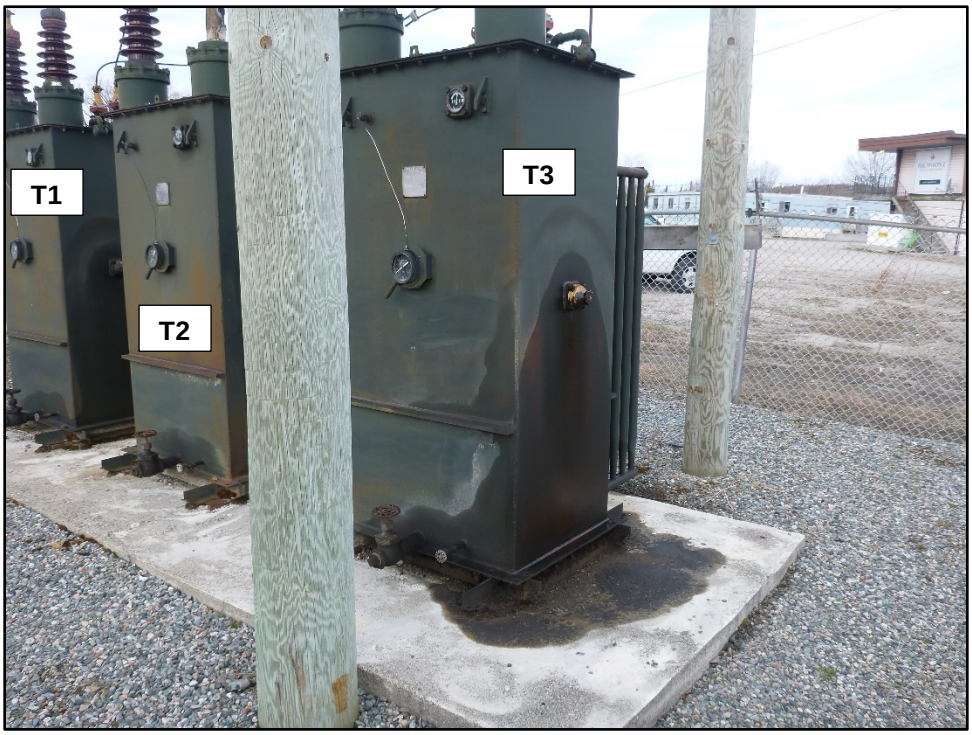


Photo 5: East side of concrete pad. Leaking gasket on “tab changer”.


Photo 6: Leak on East side of transformer T3 .

Photo 7: Oil staining on gravel surface on the north side of the concrete pad.

Photo 8: Three oil-filled breakers on the North side.

Photo 9: Gasoline retail station immediately adjacent to the DS.

Photo 10: Retaining wall installed approximately 2 years ago to avoid pooling of rainwater run off.

Photo 1: Overview of DS looking North/Northwest


Photo 2: Overview of DS looking East. Keith Spencer Trucking warehouse/garage building visual on the right hand of the photo.

Photo 3: Photo showing the three transformers (T2, T3 and T4) on the concrete pad with no significant oil staining on concrete or gravel.

Photo 4: T3 oil staining on side of transformer by valves.

Photo 5: T1 located off the concrete pad awaiting repair. Some oily staining on side by valves.

Photo 6: Three transformers from another location temporarily stored awaiting oil testing.

Photo 7: Keith Spencer Trucking adjacent to the substation. Fuel tanks visible on the side of the building.

Photo 8: Chemin Indutrial turnaround. Substation to the right. Auto Repair Shop (blue and white building).

Photo 9: Photo taken from opposite side of Chemin Industriual, looking south. The sewer lift station is located within the fenced area noted on the right side of the photo.

Photo 1: Overview of DS looking West

Photo 2: DS seen from Parc Industriel, looking South/Southwest.

Photo 3: Photo showing the lower part of the transformer and the concrete foundation and pad.

Photo 4: West side of the transformer. Wet staining around the valve.

Photo 5: North side of concrete pad. Dark discolouration of the concrete does not appear oily.

Photo 6: Immediately east of the DS.

Photo 7: Northeast of the DS looking at the trucking company property.

Photo 8: Photo from the opposite side of Parc Industrial looking East.

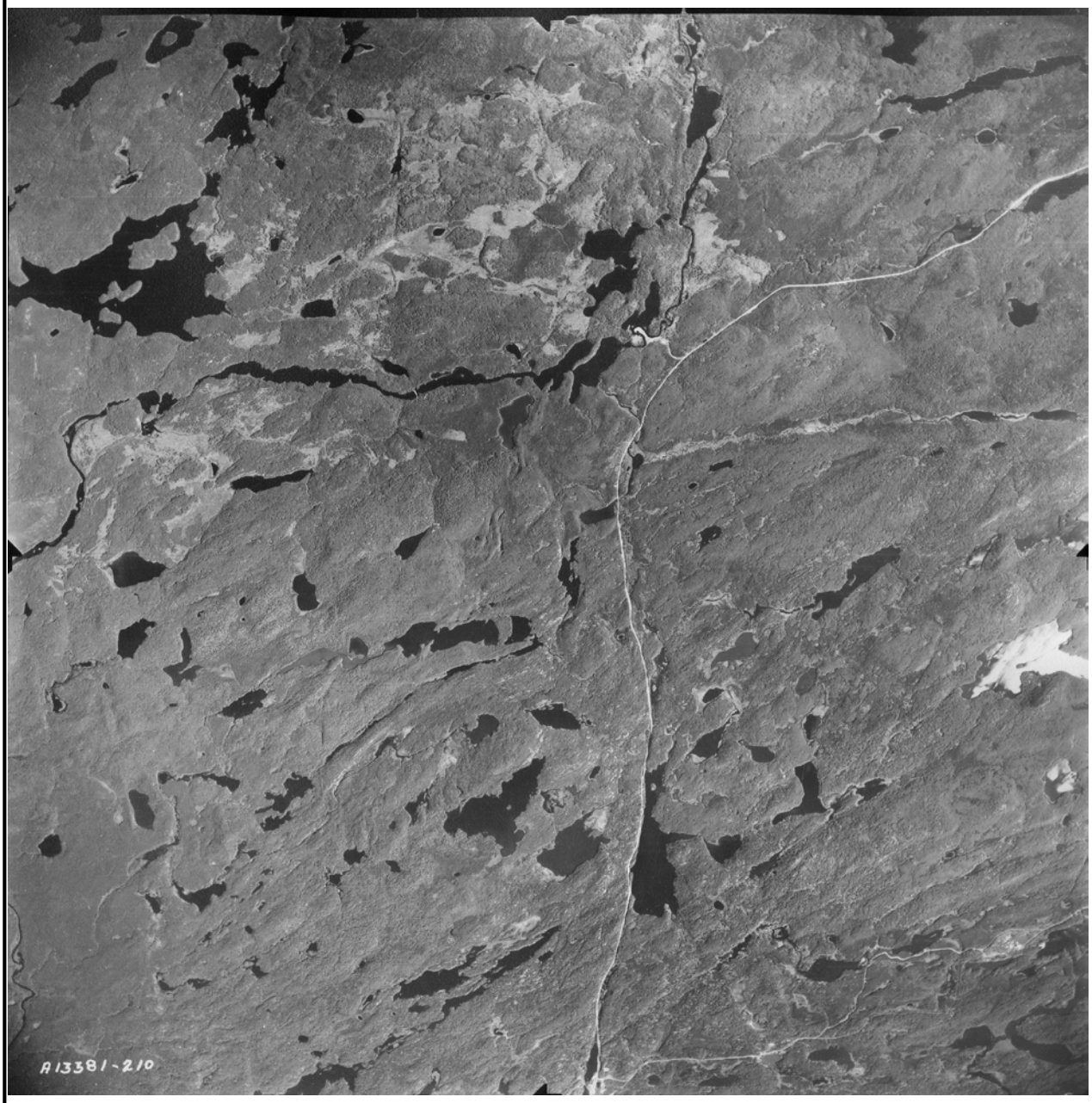
Photo 9: Photo from the opposite side of Parc Industrial looking West

APPENDIX B

Aerial Photographs

AERIAL PHOTOGRAPH
CIRCA 1952
PHASE I ESAs DUBREUILVIELLE, ONTARIO

Scale: 1:70 000



DATE: May 2017

PROJECT: 1779503

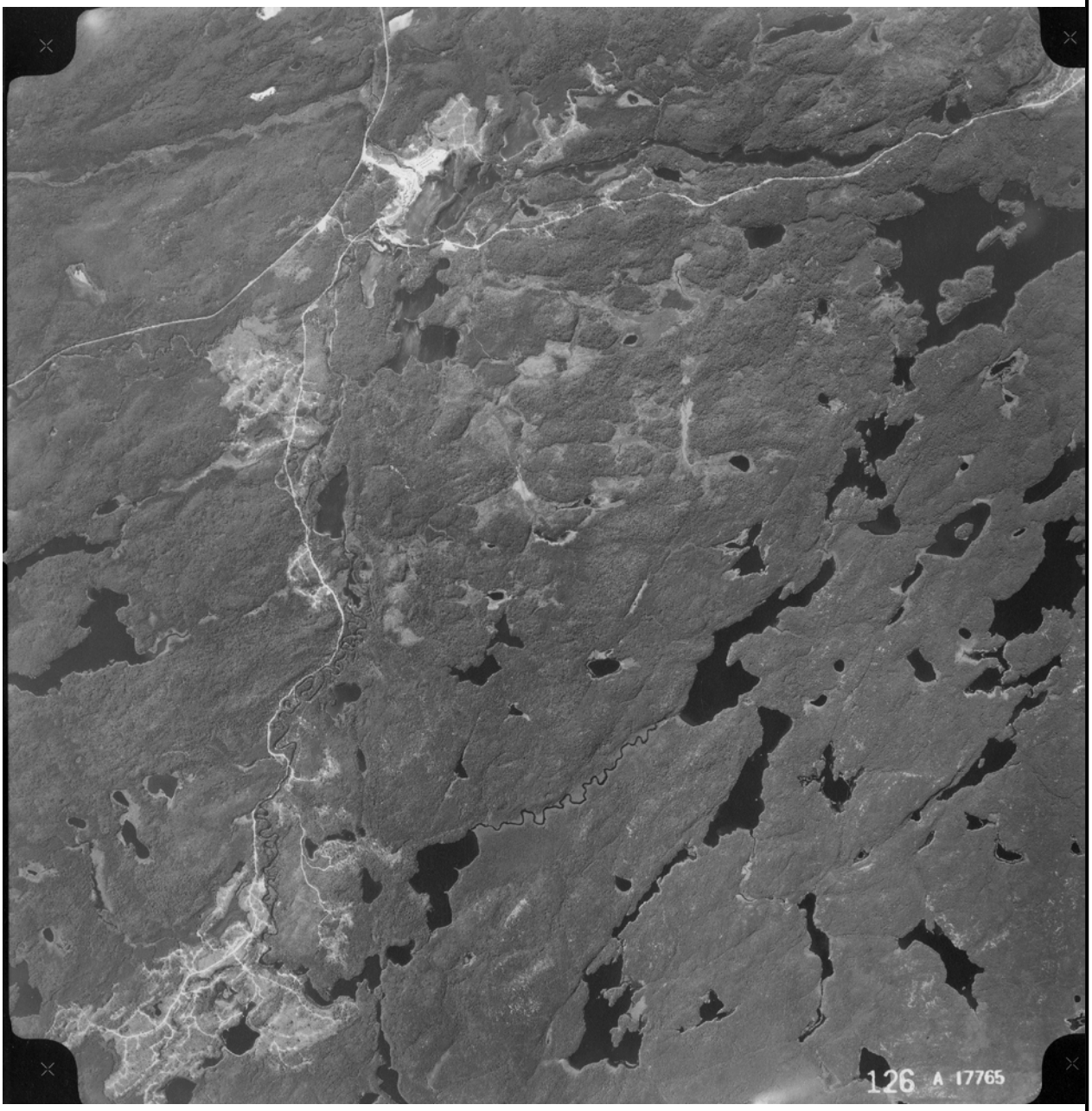
Golder Associates

DRAWN BY: SA

REVIEWED BY: SD

AERIAL PHOTOGRAPH
CIRCA 1962
PHASE I ESAs DUBREUILVIELLE, ONTARIO

Scale: 1:60 000



DATE: May 2017

PROJECT: 1779503

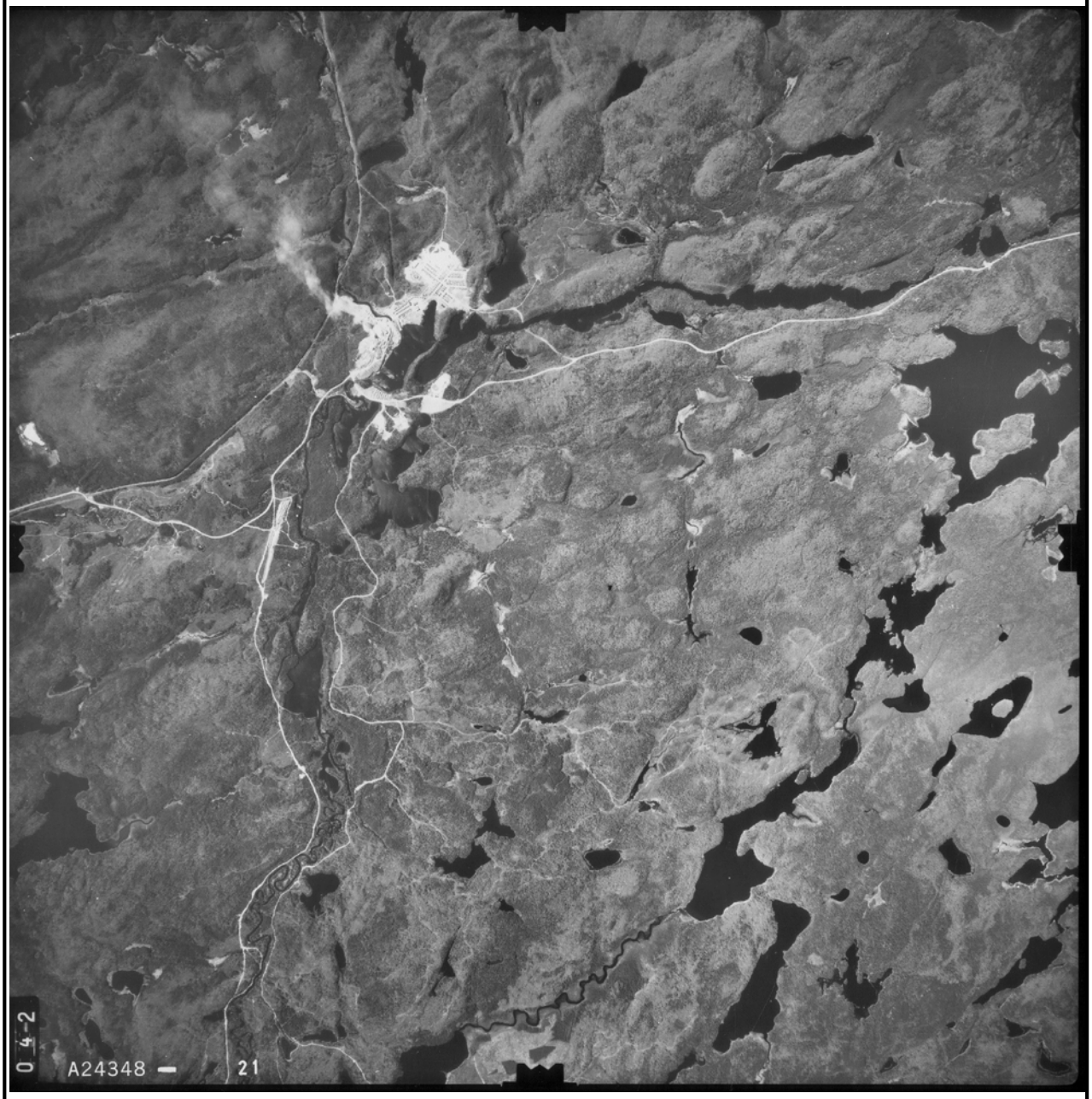
Golder Associates

DRAWN BY: SA

REVIEWED BY: SD

AERIAL PHOTOGRAPH
CIRCA 1976
PHASE I ESAs DUBREUILVIELLE, ONTARIO

Scale: 1:70 000



DATE: May 2017

PROJECT: 1779503

Golder Associates

DRAWN BY: SA

REVIEWED BY: SD

APPENDIX C

ERIS Reports

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Station 1* *Na* *Dubreuilville ON*
Project No:	
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20170426146*
Requested by:	*Golder Associates Ltd.*
Date Completed:	*May 8, 2017*

Environmental Risk Information Services
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:		*Station 1* *Na Dubreuilville ON*
Project No:		
Coordinates:		
	Latitude:	*48.34981*
	Longitude:	*-84.54567*
	UTM Northing:	*5,358,092.25*
	UTM Easting:	*681,834.44*
	UTM Zone:	*UTM Zone 16U*
Elevation:		*1,110 FT* *338.22 M*

Order Information:

Order No:	*20170426146*
Date Requested:	*April 26, 2017*
Requested by:	*Golder Associates Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*National Collection - Digital (PDF)*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Specific Plans*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	***Abandoned Aggregate Inventory***	*Y*	*0*	*0*	*0*
AGR	***Aggregate Inventory***	*Y*	*0*	*0*	*0*
AMIS	***Abandoned Mine Information System***	*Y*	*0*	*0*	*0*
ANDR	***Anderson's Waste Disposal Sites***	*Y*	*0*	*0*	*0*
AUWR	***Automobile Wrecking & Supplies***	*Y*	*0*	*0*	*0*
BORE	***Borehole***	*Y*	*0*	*0*	*0*
CA	***Certificates of Approval***	*Y*	*0*	*1*	*1*
CFOT	***Commercial Fuel Oil Tanks***	*Y*	*0*	*2*	*2*
CHEM	***Chemical Register***	*Y*	*0*	*0*	*0*
CNG	***Compressed Natural Gas Stations***	*Y*	*0*	*0*	*0*
COAL	***Inventory of Coal Gasification Plants and Coal Tar Sites***	*Y*	*0*	*0*	*0*
CONV	***Compliance and Convictions***	*Y*	*0*	*0*	*0*
CPU	***Certificates of Property Use***	*Y*	*0*	*0*	*0*
DRL	***Drill Hole Database***	*Y*	*0*	*0*	*0*
EASR	***Environmental Activity and Sector Registry***	*Y*	*0*	*0*	*0*
EBR	***Environmental Registry***	*Y*	*0*	*3*	*3*
ECA	***Environmental Compliance Approval***	*Y*	*0*	*0*	*0*
EEM	***Environmental Effects Monitoring***	*Y*	*0*	*0*	*0*
EHS	***ERIS Historical Searches***	*Y*	*0*	*2*	*2*
EIIS	***Environmental Issues Inventory System***	*Y*	*0*	*0*	*0*
EMHE	***Emergency Management Historical Event***	*Y*	*0*	*0*	*0*
EXP	***List of TSSA Expired Facilities***	*Y*	*0*	*0*	*0*
FCON	***Federal Convictions***	*Y*	*0*	*0*	*0*
FCS	***Contaminated Sites on Federal Land***	*Y*	*0*	*0*	*0*
FOFT	***Fisheries & Oceans Fuel Tanks***	*Y*	*0*	*0*	*0*
FST	***Fuel Storage Tank***	*Y*	*0*	*8*	*8*
FSTH	***Fuel Storage Tank - Historic***	*Y*	*0*	*2*	*2*
GEN	***Ontario Regulation 347 Waste Generators Summary***	*Y*	*0*	*8*	*8*
GHG	***Greenhouse Gas Emissions from Large Facilities***	*Y*	*0*	*0*	*0*
HINC	***TSSA Historic Incidents***	*Y*	*0*	*0*	*0*
IAFT	***Indian & Northern Affairs Fuel Tanks***	*Y*	*0*	*0*	*0*
INC	***TSSA Incidents***	*Y*	*0*	*0*	*0*
LIMO	***Landfill Inventory Management Ontario***	*Y*	*0*	*0*	*0*
MINE	***Canadian Mine Locations***	*Y*	*0*	*0*	*0*
MNR	***Mineral Occurrences***	*Y*	*0*	*0*	*0*
NATE	***National Analysis of Trends in Emergencies System (NATES)***	*Y*	*0*	*0*	*0*

Database	Name	Searched	Project Property	Within 0.25 km	Total
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	3	3
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	5	5
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	1	1
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	1	1
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	1	1
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	1	1
	Total:	0	38	38	

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	CA	DUBREUIL FOREST PRODUCTS LTD.	21 RUE DES PINS DUBREUILVILLE TWP. ON	NNW/174.0	1.78	16
1	EBR	Dubreuil Forest Products Ltd.	21 RUE DES PINS Township of Dubreuilville ON	NNW/174.0	1.78	16
1	EBR	Dubreuil Forest Products Ltd.	Township of Dubreuilville ON	NNW/174.0	1.78	16
1	EBR	Dubreuil Forest Products Ltd.	J.C. 561 Reg. Plan 1B 1386 Parts 6 & 7 Dubreuilville ON	NNW/174.0	1.78	16
1	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	17
1	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	17
1	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	17
1	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	18
1	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	18
1	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	18
1	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	18
1	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	19
1	FSTH	DUBREUIL FOREST PRODUCTS LTD	21 PINE ST DUBREUILVILLE ON	NNW/174.0	1.78	19
1	FSTH	DUBREUIL FOREST PRODUCTS LTD	21 PINE ST DUBREUILVILLE ON	NNW/174.0	1.78	20
1	GEN	DUBREUIL FOREST PRODUCTS	21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	21
1	GEN	DUBREUIL FOREST PRODUCTS 13-228	21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	21
1	GEN	DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	22
1	GEN	DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	NNW/174.0	1.78	22
1	GEN	DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	NNW/174.0	1.78	22
1	GEN	DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	NNW/174.0	1.78	23
1	NPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET PINE STREET DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	23
1	NPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON	NNW/174.0	1.78	23
1	NPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	24

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	24
1	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	24
1	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	25
1	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	25
1	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW/174.0	1.78	25
1	PES	LACROIX ENTERPRISES LTD.	21 RUE DES PINS DUBREAUIVILLE ON P0S 1B0	NNW/174.0	1.78	25
1	SCT	Dubreuil Forest Products Ltd.	21 Pine St Dubreuilville ON P0S 1B0	NNW/174.0	1.78	26
1	WDS	2288016 Ontario Inc.	21 Rue des Pins Dubreuilville Township ON	NNW/174.0	1.78	26
2	EHS		Avenue du Parc Dubreuville ON	W/193.6	1.40	27
3	EHS		24 Rue Des Pins Dubreuiville ON	NW/199.5	1.78	27
4	GEN	conseil scolaire public du gran nord	159 avenue du parc Dubreuilville ON	SSW/225.6	-1.22	27
4	GEN	conseil scolaire public du gran nord	159 avenue du parc Dubreuilville ON P0S1B0	SSW/225.6	-1.22	28
5	WWIS		ON	W/236.7	1.78	28
6	CFOT	Dubreuilville RCSS Board	1 Ave du Parc DUBREUILVILLE ON	SSW/247.1	-1.40	30
6	CFOT	DUBREUILVILLE RCSS BOARD	1 AVE DU PARC DUBREUILVILLE ON P0S 1B0	SSW/247.1	-1.40	30

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 1 CA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS LTD.	21 RUE DES PINS DUBREUILVILLE TWP. ON	NNW	173.99	1

CFOT - Commercial Fuel Oil Tanks

A search of the CFOT database, dated Feb 28, 2017 has found that there are 2 CFOT site(s) within approximately 0.25 kilometers of the project property.

Lower Elevation	Address	Direction	Distance (m)	Map Key
Dubreuilville RCSS Board	1 Ave du Parc DUBREUILVILLE ON	SSW	247.05	6
DUBREUILVILLE RCSS BOARD	1 AVE DU PARC DUBREUILVILLE ON P0S 1B0	SSW	247.05	6

EBR - Environmental Registry

A search of the EBR database, dated 1994-Mar 2017 has found that there are 3 EBR site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Dubreuil Forest Products Ltd.	J.C. 561 Reg. Plan 1B 1386 Parts 6 & 7 Dubreuilville ON	NNW	173.99	1
Dubreuil Forest Products Ltd.	Township of Dubreuilville ON	NNW	173.99	1
Dubreuil Forest Products Ltd.	21 RUE DES PINS Township of Dubreuilville ON	NNW	173.99	1

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Aug 2016 has found that there are 2 EHS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	Avenue du Parc Dubreuville ON	W	193.63	2
	24 Rue Des Pins Dubreuiville ON	NW	199.50	3

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2017 has found that there are 8 FST site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	NNW	173.99	1

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS LTD	21 PINE ST DUBREUILVILLE ON	NNW	173.99	1
DUBREUIL FOREST PRODUCTS LTD	21 PINE ST DUBREUILVILLE ON	NNW	173.99	1

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Sep 2016 has found that there are 8 GEN site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	NNW	173.99	1
DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	NNW	173.99	1
DUBREUIL FOREST PRODUCTS	21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	NNW	173.99	1

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS 13-228	21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	NNW	173.99	1

Lower Elevation	Address	Direction	Distance (m)	Map Key
conseil scolaire public du gran nord	159 avenue du parc Dubreuilville ON P0S1B0	SSW	225.62	4
conseil scolaire public du gran nord	159 avenue du parc Dubreuilville ON	SSW	225.62	4

NPCB - National PCB Inventory

A search of the NPCB database, dated 1988-2008* has found that there are 3 NPCB site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET PINE STREET DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON	NNW	173.99	1

OPCB - Inventory of PCB Storage Sites

A search of the OPCB database, dated 1987-Oct 2004; 2012-Dec 2013 has found that there are 5 OPCB site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW	173.99	1
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	NNW	173.99	1

PES - Pesticide Register

A search of the PES database, dated 1988-Oct 2016 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
LACROIX ENTERPRISES LTD.	21 RUE DES PINS DUBREAUIVILLE ON P0S 1B0	NNW	173.99	1

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 1 SCT site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Dubreuil Forest Products Ltd.	21 Pine St Dubreuilville ON P0S 1B0	NNW	173.99	1

WDS - Waste Disposal Sites - MOE CA Inventory

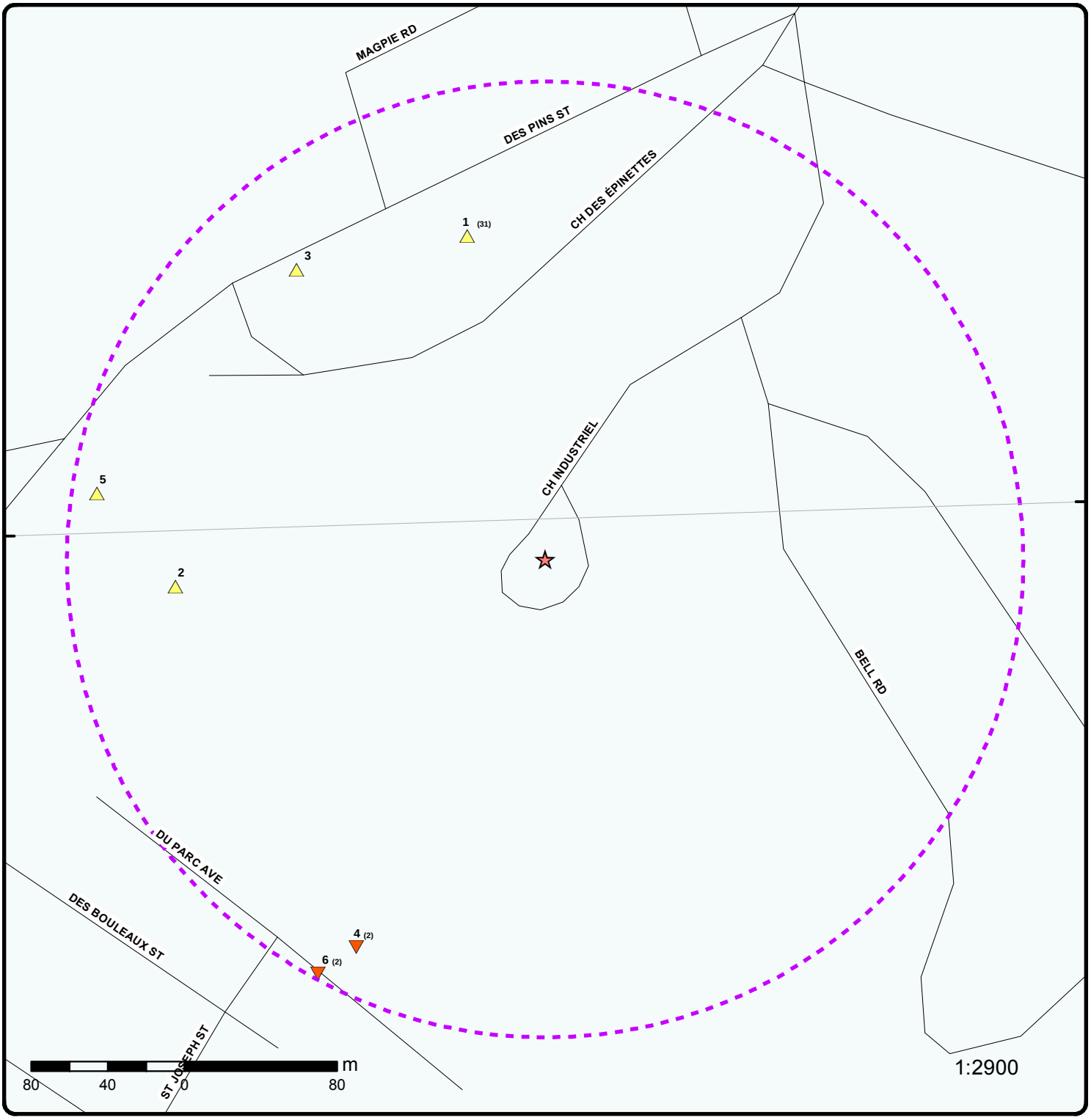
A search of the WDS database, dated 1970-Mar 2017 has found that there are 1 WDS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
2288016 Ontario Inc.	21 Rue des Pins Dubreuilville Township ON	NNW	173.99	1

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30, 2016 has found that there are 1 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	W	236.70	5



Map : 0.25 Kilometer Radius

Order No: 20170426146

Address: Na, Dubreuilville, ON

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Expressway
- Principal Highway
- Secondary Highway
- Major Road
- Local road
- Trail
- Proposed Road
- Ferry Route/Ice Road
- Industrial and Resource - Regions
- Main Line
- Sidetrack
- Transit Line
- Abandoned Line
- National Park
- Provincial or Territorial Park
- Other Park
- Golf Course or Driving Range
- Park or Sports Field
- Other Recreation Area

Source: © 2015 DMTI Spatial Inc.

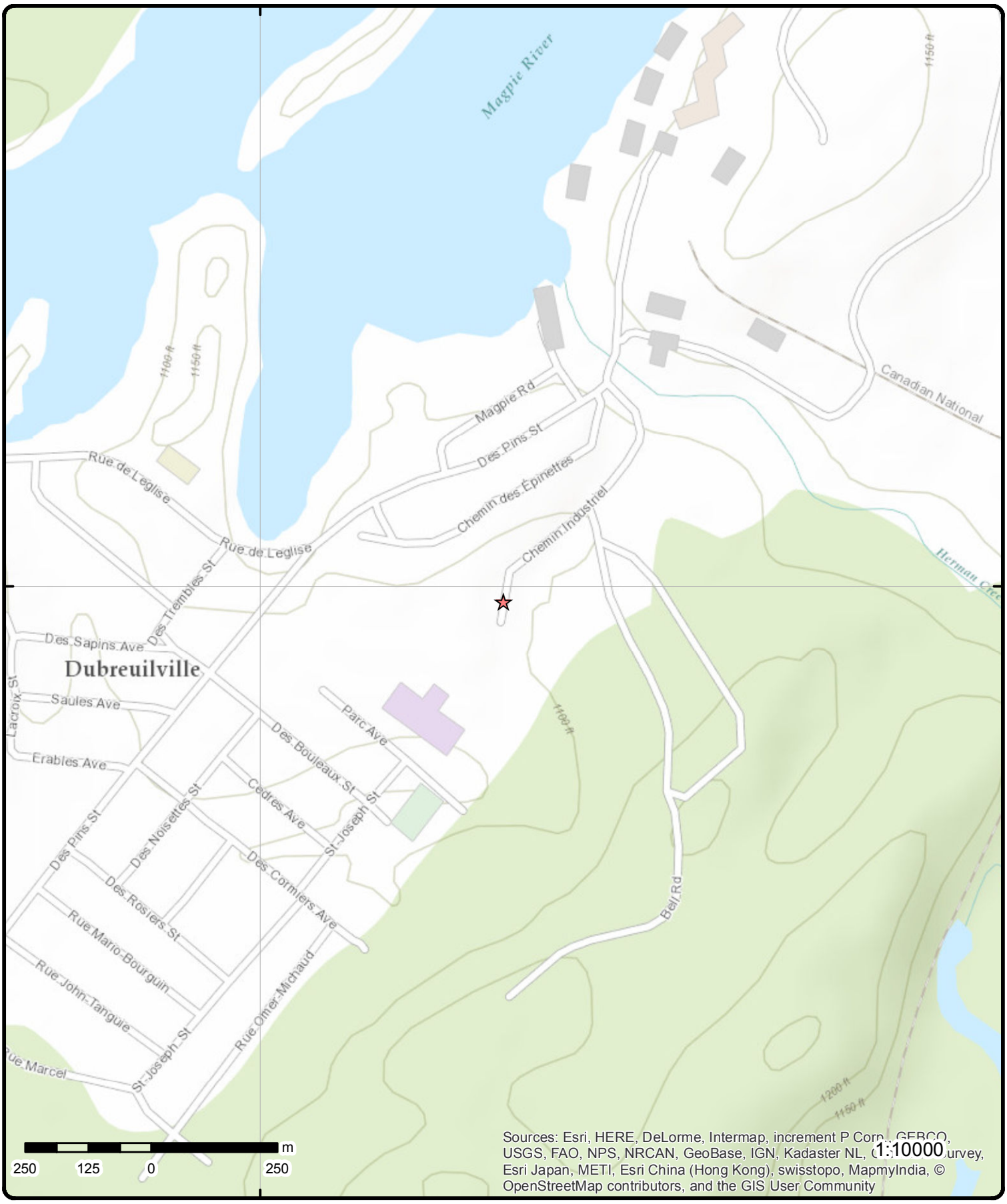
Aerial

Order No: 20170426146

Address: Na, Dubreuilville, ON

Source: ESRI World Imagery

ENVIRONMENTAL RISK INFORMATION SERVICES



Topographic Map

Address: Na, Dubreuilville, ON

Source: ESRI World Topographic Map

Order No: 20170426146

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	1 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LTD. 21 RUE DES PINS DUBREUILVILLE TWP. ON	CA

Certificate #: 8-6073-97-
Application Year: 97
Issue Date: 9/2/1997
Approval Type: Industrial air
Status: Cancelled
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: ENERGEX DRY KILN SYSTEM
Contaminants::
Emission Control::

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	2 of 31	NNW/174.0	340.0	Dubreuil Forest Products Ltd. 21 RUE DES PINS Township of Dubreuilville ON	EBR

Company Name:
Year: 1997
Notice Type: Instrument
EBR Registry No.: IA7E1141
Instrument Type: EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date: 8/5/97
Ministry Ref. No.:
Location: Township of Dubreuilville
Proponent Address: Dubreuil Forest Products Ltd.PO Box 100, 21 Rue Des Pins,Dubreuilville, Ontario, P0S 1B0
Notice Date:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	3 of 31	NNW/174.0	340.0	Dubreuil Forest Products Ltd. Township of Dubreuilville ON	EBR

Company Name:
Year: 1997
Notice Type: Instrument
EBR Registry No.: IA7E1831
Instrument Type: EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date: 12/17/97
Ministry Ref. No.:
Location: Township of Dubreuilville
Proponent Address: Dubreuil Forest Products Ltd.,PO Box 100, 21 Rue Des Pins,Dubreuilville, Ontario,P0S 1B0
Notice Date:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	4 of 31	NNW/174.0	340.0	Dubreuil Forest Products Ltd. J.C. 561 Reg. Plan 1B 1386 Parts 6 & 7 Dubreuilville ON	EBR

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

Company Name:
Year: 2000
Notice Type: Instrument
EBR Registry No.: IA00E1568
Instrument Type: EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date:
Ministry Ref. No.:
Location: J.C. 561 Reg. Plan 1B 1386 Parts 6 & 7,Dubreuilville, OntarioDubreuilville
Proponent Address: Dubreuil Forest Products Ltd.21 Rue des Pins,Dubreuilville, Ontario, P0S 1B0
Notice Date:

1	5 of 31	NNW/174.0	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No: 10737060
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Diesel
Status: Active
Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

1	6 of 31	NNW/174.0	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No: 11421920
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1989
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

1	7 of 31	NNW/174.0	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No: 11405030
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Diesel
Status: Active
Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: FS Gasoline Station - Card/Keylock

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Facility Type:		FS Liquid Fuel Tank			

1	8 of 31	NNW/174.0	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No:	11405079
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Gasoline
Status:	Active
Capacity:	45400
Tank Material:	Steel
Corrosion Protection:	Sacrificial anode
Tank Type:	Single Wall UST
Install Year:	1990
Parent Facility Type:	FS Gasoline Station - Card/Keylock
Facility Type:	FS Liquid Fuel Tank

1	9 of 31	NNW/174.0	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No:	11421964
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Gasoline
Status:	Active
Capacity:	45400
Tank Material:	Steel
Corrosion Protection:	Sacrificial anode
Tank Type:	Single Wall UST
Install Year:	1989
Parent Facility Type:	FS Gasoline Station - Card/Keylock
Facility Type:	FS Liquid Fuel Tank

1	10 of 31	NNW/174.0	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No:	11421945
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Gasoline
Status:	Active
Capacity:	45400
Tank Material:	Steel
Corrosion Protection:	Sacrificial anode
Tank Type:	Single Wall UST
Install Year:	1989
Parent Facility Type:	FS Gasoline Station - Card/Keylock
Facility Type:	FS Liquid Fuel Tank

1	11 of 31	NNW/174.0	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No:	11405049
Cont Name:	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

Instance Type: FS Liquid Fuel Tank
Fuel Type: Diesel
Status: Active
Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

1	12 of 31	NNW/174.0	340.0	***DUBREUIL LUMBER INC*** ***21 PINE ST*** ***DUBREUILVILLE ON P0S 1B0***	***FST***

Instance No: 11405008
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Diesel
Status: Active
Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

1	13 of 31	NNW/174.0	340.0	***DUBREUIL FOREST PRODUCTS LTD*** ***21 PINE ST*** ***DUBREUILVILLE ON***	***FSTH***

License Issue Date: 3/15/2002
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--
Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400

Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	*14 of 31*	*NNW/174.0*	*340.0*	***DUBREUIL FOREST PRODUCTS LTD 21 PINE ST DUBREUILVILLE ON***	***FSTH***

License Issue Date: 3/15/2002
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--
Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB

Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

1	***15 of 31***	***NNW/174.0***	***340.0***	***DUBREUIL FOREST PRODUCTS*** ***21 PINE ST. PO BOX 100*** ***DUBREUILVILLE ON P0S 1B0***		***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0761100
Approval Yrs:: 90
SIC Code: 2512
SIC Description: SAWMILL & PLANING

--Details--
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 232
Waste Description: POLYMERIC RESINS

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

1	***16 of 31***	***NNW/174.0***	***340.0***	***DUBREUIL FOREST PRODUCTS*** ***21 PINE ST. PO BOX 100*** ***DUBREUILVILLE ON P0S 1B0***	***13-228***	***GEN***

PO Box Num:
Status:
Country:
Generator #: ON0761100
Approval Yrs:: 94,95,96
SIC Code: 2512
SIC Description: SAWMILL & PLANING

--Details--
Waste Code: 232

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

Waste Description: POLYMERIC RESINS

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	17 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS 21 PINE STREET DUBREUILVILLE ON P0S 1B0	GEN

PO Box Num:
Status:
Country:
Generator #: ON8106488
Approval Yrs:: 04,05,06,07,08
SIC Code: 416320
SIC Description: Lumber Plywood and Millwork Wholesaler-Distributors

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	18 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS 21 PINE STREET DUBREUILVILLE ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON8106488
Approval Yrs:: 2009
SIC Code: 416320
SIC Description: Lumber Plywood and Millwork Wholesaler-Distributors

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	19 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS 21 PINE STREET DUBREUILVILLE ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON8106488
Approval Yrs:: 2010
SIC Code: 416320
SIC Description: Lumber Plywood and Millwork Wholesaler-Distributors

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	20 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS 21 PINE STREET DUBREUILVILLE ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON8106488
Approval Yrs:: 2011
SIC Code: 416320
SIC Description: Lumber Plywood and Millwork Wholesaler-Distributors

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	21 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET PINE STREET DUBREUILVILLE ON P0S 1B0	NPCB

Company Code: F1451
Industry:
Site Status:
Transaction Date:
Inspection Date:

--Details--
Label:
Serial No.:
PCB Type/Code:
Location:
Item/State:
No. of Items:
Manufacturer:
Status: In-Storage
Contents:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	22 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON	NPCB

Company Code: F1471
Industry: Undefined
Site Status: Stored for Disposal
Transaction Date: 12/30/1995
Inspection Date:

--Details--
Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	23 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	NPCB

Company Code: F1471
Industry: UNDEFINED
Site Status:
Transaction Date:
Inspection Date:

--Details--
Label: F147100
Serial No.:
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: CAPACITOR/FULL
No. of Items: 3
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 52 KG

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	24 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	OPCB

Year: 1998
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3.00
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52.00
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	25 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	OPCB

Year: 1999
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3.00
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52.00
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	26 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	OPCB

Year: 2000
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3.00
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52.00
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	27 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	OPCB

Year: 2003
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3.00
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52.00
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	28 of 31	NNW/174.0	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	OPCB

Year: 2004
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	29 of 31	NNW/174.0	340.0	LACROIX ENTERPRISES LTD. 21 RUE DES PINS	PES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
				DUBREAUIVILLE ON P0S 1B0	

Detail Licence No.:
Licence Type: Vendor

1	***30 of 31***	***NNW/174.0***	***340.0***	***Dubreuil Forest Products Ltd.*** ***21 Pine St*** ***Dubreuilville ON P0S 1B0***	***SCT***

Established: 01-JUN-56
Plant Size (ft²): 30000
Employment:

--Details--
Description: Sawmills (except Shingle and Shake Mills)
SIC/NAICS Code: 321111

Description: Sawmills (except Shingle and Shake Mills)
SIC/NAICS Code: 321111

Description: All Other Miscellaneous Wood Product Manufacturing
SIC/NAICS Code: 321999

1	***31 of 31***	***NNW/174.0***	***340.0***	***2288016 Ontario Inc.*** ***21 Rue des Pins*** ***Dubreuilville Township ON***	***WDS***

Certificate No.: 8787-A8HMEW
Issue Date: 2016-03-23
Status: Approved
Application Status:
Concession:
Lot:
Region/County: Dubreuilville Township
Proponent:
Address:
City:
Facility Type:
District Office:
Municipalities Served:
Total Area (ha):
Landfill Capacity (m³):
Landfill Monitoring:
Landfill Control Type:
Est. Closure Date:
Transfer Area (ha):
Transfer Capacity (m³):
Transfer Sites Certificate No.:
Incinerator Area (ha):
Incinerator Capacity (t):
Processing Area (m³):
Processing Capacity (m³/d):
Processing Volume (m³):
Processing Feed (m³):
Mobile Units:
Mobile Description:
Mobile Capacity:
Mobile Unit Certificate No.:
Waste Type:
Waste Type Other:
Waste Class:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

Other Approvals/Permits:
Approval Description:
Waste Description:
Site Closing Description:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/5008-99QJQJ-14.pdf
Record Type:
Project Type: Waste Disposal Sites
Latitude:
Longitude:

2	1 of 1	W/193.6	339.6	Avenue du Parc Dubreuville ON	EHS

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20070528040
Addit. Info Ordered::
Report Date: 6/6/2007
Report Type: CAN - Complete Report
Search Radius (km): 0.25

3	1 of 1	NW/199.5	340.0	24 Rue Des Pins Dubreuiville ON	EHS

Postal Code:
City:
Address2:
Address1:
Provstate:
Order No.: 20140708091
Addit. Info Ordered::
Report Date: 14-JUL-14
Report Type: Custom Report
Search Radius (km): .25

4	1 of 2	SSW/225.6	337.0	conseil scolaire public du gran nord 159 avenue du parc Dubreuilville ON	GEN

PO Box Num:
Status:
Country:
Generator #: ON5579240
Approval Yrs:: As of May 2015
SIC Code:
SIC Description:

--Details--
Waste Code: 148
Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 252
Waste Description: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	2 of 2	SSW/225.6	337.0	conseil scolaire public du gran nord 159 avenue du parc Dubreuilville ON P0S1B0	GEN

PO Box Num:
Status: Registered
Country: Canada
Generator #: ON5579240
Approval Yrs:: As of Sep 2016
SIC Code:
SIC Description:

--Details--
Waste Code: 148 R
Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 148 I
Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 148 C
Waste Description: Misc. wastes and inorganic chemicals

Waste Code: 252 L
Waste Description: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
5	1 of 1	W/236.7	340.0	ON	WWIS

Well ID: 1101506
Construction Date::
Primary Water Use:: Not Used
Sec. Water Use::
Final Well Status:: Abandoned-Quality
Specific Capacity::
Municipality: TOWNSHIP 28 RANGE 27 (UNSURVEYED)
County: ALGOMA
Lot:
Concession:
Concession Name:
Easting NAD83::
Northing NAD83::
Zone::
UTM Reliability::

Bore Hole Information
-- --
Bore Hole ID: 10001490
DP2BR:
Code OB: o
Code OB Description: Overburden
Open Hole:
Date Completed: 10-DEC-65
Remarks:
Zone: 16
East 83: 681600.3
North 83: 5358127
UTMRC: 9
UTMRC Description: unknown UTM
Location Method: p9
Org CS:
Elevation: 338.13
Elevrc:
Elevrc Description:
Location Source Date:
Source Revision Comment:
Improvement Location Source:
Improvement Location Method:
Supplier Comment:
Spatial Status:
-- --

Overburden and Bedrock Materials Interval	
--	--
Formation ID:	930907318
Layer:	1
General Color:	
Most Common Material:	GRAVEL
Other Materials:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	78
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961101506
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10550060
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930002227
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	78
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991101506
Pump Set At:	
Static Level:	20
Final Level After Pumping:	60
Recommended Pump Depth:	70
Pumping Rate:	15
Flowing Rate:	
Recommended Pump Rate:	15
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	4
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933426778
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	78
Water Found Depth UOM:	ft

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
--		--			
--		--			

6 **1 of 2** **SSW/247.1** **336.8** **Dubreuilville RCSS Board** **CFOT**
1 Ave du Parc
DUBREUILVILLE ON

Licence No:		**Letter Sent:**	
Registration No:	200204-1309	**Corrosion Protection:**	
Posse File No:		**Province:**	
Posse Reg No:		**Nbr:**	
Tank Type:		**Contact Name:**	c/o Normand Brunet
Instance Number:		**Contact Address:**	1 Ave du Parc
Facility Type:		**Contact Address2:**	
Instance Type:		**Contact Suite:**	
Status Name:		**Contact City:**	Dubreuilville
Fuel Type:		**Contact Prov:**	ON
Distributor:		**Contact Postal:**	P0S 1B0
Tank Material:	Fiberglass	**Tank Address:**	1 Ave du Parc
Tank Age (as of 05/1992):	8 months	**Comments:**	
Tank Size:	3000 gal		

6 **2 of 2** **SSW/247.1** **336.8** **DUBREUILVILLE RCSS BOARD** **CFOT**
1 AVE DU PARC
DUBREUILVILLE ON P0S 1B0

Licence No:		**Letter Sent:**	
Registration No:		**Corrosion Protection:**	
Posse File No:		**Province:**	ON
Posse Reg No:		**Nbr:**	1226
Tank Type:	Double Wall UST	**Contact Name:**	
Instance Number:	46411815	**Contact Address:**	
Facility Type:	FS Fuel Oil Tank	**Contact Address2:**	
Instance Type:	FS Fuel Oil Tank	**Contact Suite:**	
Status Name:	Active	**Contact City:**	
Fuel Type:	Fuel Oil	**Contact Prov:**	
Distributor:		**Contact Postal:**	
Tank Material:	Fiberglass (FRP)	**Tank Address:**	1 AVE DU PARC
Tank Age (as of 05/1992):		**Comments:**	
Tank Size:	13638		

Unplottable Summary

Total: 29 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AGR	DUBREUIL FOREST PRODUCTS LIMITED		NEBOTIK ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		AMIK ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		AMIK ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		CHENARD ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		CHALLENER ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		DOUCETT ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		ATKINSON ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		DOUCETT ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		ABIGO ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		ATKINSON ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		MAKAWA ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		ABIGO ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		MAKAWA ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		NEBOTIK ON	
CA	DUBREUIL FOREST PRODUCTS LTD.	SAWMILL SITE, ALGOMA DIST.	DUBREUILVILLE IMPR. DIST. ON	
CA	ADVENTURE CONSTRUCTION	RUE DES PINS	DUBREUILVILLE IMPR. DISTR. ON	
CA	DUBREUIL BROTHERS LIMITED	CH.INDUSTRIEL,RUE DES PINS	DUBREUILVILLE IMPR. DISTR. ON	

CA	Dubreuilville Well Supply	Magpie Road	Township of Dubreuilville ON
CA	Dubreuilville Well Supply	Magpie Road	Dubreuilville ON
CA	ADVENTURE CONSTRUCTION	RUE DES PINS STREET B	DUBREUILVILLE IMPR. DISTR. ON
CA	DUBREUILVILLE TOWNSHIP	RUE DES PINS/MAGPIE RD.	DUBREUILVILLE TWP. ON
CA	DUBREUIL FOREST PRODUCTS LTD.	DUMPHY LOCATION, ALGOMA DIST.	DUBREUILVILLE TWP. ON
EBR	Dubreuil Lumber Inc.		Dubreuilville ON
LIMO	1333437 Ontario Limited Dubreuil Forest Products		Township of Dubreuilville ON
PRT	DUBREUIL FOREST PRODUCTS LTD	MAIN ST	DUBREUILVILLE ON
SPL	DUBREUIL FOREST PRODUCTS	DUBREUIVILLE LUMBER YARD NEAR HERMAN CREEK 21 RUE DES PINS DUBREUILVILLE, ONT	ALGOMA DISTRICT ON
SPL	Dubreuil Forest Products Inc.	DUBREUIL FOREST PRODUCT MILL YARD<UNOFFICIAL>	Dubreuilville ON
SPL	The Corporation of the Township of Dubreuilville	Bell Rd	Dubreuilville ON
SPL	The Corporation of the Township of Dubreuilville	Magpie Road	Dubreuilville ON

Unplottable Report

Site: ***DUBREUIL FOREST PRODUCTS LIMITED***
NEBOTIK ON

Database: ***AGR***

ID:	16465
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	50000
Unlimted Tonnage:	
Geographic Township:	NEBOTIK
Client Name:	DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::	
Extraction Area::	
Licenced Area::	11
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	

Site: ***DUBREUIL FOREST PRODUCTS LIMITED***
AMIK ON

Database: ***AGR***

ID:	17868
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	10000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	7
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED***
AMIK ON

Database: ***AGR***

ID:	17868
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	10000
Unlimted Tonnage:	

Geographic Township: AMIK
Client Name: DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::
Extraction Area::
Licenced Area:: 7
Lot::
Concession::
Section::
Muncipality::
County:: ALGOMA D
District::

Site: ***DUBREUIL FOREST PRODUCTS LIMITED CHENARD ON***

Database: ***AGR***

ID: 84995
Approval Type: Aggregate Permit
Effective Date::
Current Status:
Status Date:
Operation Type: Pit
Max Tonnage: 50000
Unlimted Tonnage:
Geographic Township:
Client Name:
Authority Type::
Extraction Area::
Licenced Area:: 26.8
Lot::
Concession::
Section::
Muncipality:: ALGOMA D - UNORGANIZED AREAS
County:: ALGOMA D
District:: Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED CHALLENER ON***

Database: ***AGR***

ID: 602901
Approval Type: Aggregate Permit
Effective Date::
Current Status:
Status Date:
Operation Type: Pit
Max Tonnage: 50000
Unlimted Tonnage:
Geographic Township:
Client Name:
Authority Type::
Extraction Area::
Licenced Area:: 5.2
Lot::
Concession::
Section::
Muncipality:: ALGOMA D - UNORGANIZED AREAS
County:: ALGOMA D
District:: Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED DOUCETT ON***

Database: ***AGR***

ID: 14439
Approval Type: Aggregate Permit
Effective Date::
Current Status:

Status Date:
Operation Type: Pit
Max Tonnage: 10000
Unlimted Tonnage:
Geographic Township: DOUCETT
Client Name: DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::
Extraction Area::
Licenced Area:: 4
Lot::
Concession::
Section::
Muncipality::
County:: ALGOMA D
District::

Site: ***DUBREUIL FOREST PRODUCTS LIMITED ATKINSON ON***

Database: ***AGR***

ID: 15468
Approval Type: Aggregate Permit
Effective Date::
Current Status:
Status Date:
Operation Type: Pit
Max Tonnage: 10000
Unlimted Tonnage:
Geographic Township:
Client Name:
Authority Type::
Extraction Area::
Licenced Area:: 3
Lot::
Concession::
Section::
Muncipality::
County:: ALGOMA D
District:: Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED DOUCETT ON***

Database: ***AGR***

ID: 14439
Approval Type: Aggregate Permit
Effective Date::
Current Status:
Status Date:
Operation Type: Pit
Max Tonnage: 10000
Unlimted Tonnage:
Geographic Township:
Client Name:
Authority Type::
Extraction Area::
Licenced Area:: 4
Lot::
Concession::
Section::
Muncipality::
County:: ALGOMA D
District:: Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED ABIGO ON***

Database: ***AGR***

ID:	18159
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	20000
Unlimted Tonnage:	
Geographic Township:	ABIGO
Client Name:	DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::	
Extraction Area::	
Licenced Area::	9
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	

Site: ***DUBREUIL FOREST PRODUCTS LIMITED ATKINSON ON***

Database: ***AGR***

ID:	15468
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	10000
Unlimted Tonnage:	
Geographic Township:	ATKINSON
Client Name:	DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::	
Extraction Area::	
Licenced Area::	3
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	

Site: ***DUBREUIL FOREST PRODUCTS LIMITED MAKAWA ON***

Database: ***AGR***

ID:	16058
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	30000
Unlimted Tonnage:	
Geographic Township:	MAKAWA
Client Name:	DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::	
Extraction Area::	
Licenced Area::	3
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	

Site: ***DUBREUIL FOREST PRODUCTS LIMITED ABIGO ON***

Database: ***AGR***

ID:	18159
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	20000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	9
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED MAKAWA ON***

Database: ***AGR***

ID:	16058
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	30000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	3
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED NEBOTIK ON***

Database: ***AGR***

ID:	16465
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	50000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	11
Lot::	
Concession::	
Section::	
Muncipality::	

County:: ALGOMA D
District:: Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LTD.***
SAWMILL SITE, ALGOMA DIST. DUBREUILVILLE IMPR. DIST. ON

Database: ***CA***

Certificate #: 8-5041-93-
Application Year: 93
Issue Date: 7/11/1994
Approval Type: Industrial air
Status: Underwent 1st revision in 1994
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: CYCLONE SEPARATORS, LUMBER DRY KILN
Contaminants:: Suspended Particulate Matter
Emission Control:: Cyclone

Site: ***ADVENTURE CONSTRUCTION***
RUE DES PINS DUBREUILVILLE IMPR. DISTR. ON

Database: ***CA***

Certificate #: 7-1362-88-
Application Year: 88
Issue Date: 9/27/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***DUBREUIL BROTHERS LIMITED***
CH.INDUSTRIEL,RUE DES PINS DUBREUILVILLE IMPR. DISTR. ON

Database: ***CA***

Certificate #: 3-1299-88-
Application Year: 88
Issue Date: 8/31/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***Dubreuilville Well Supply***
Magpie Road Township of Dubreuilville ON

Database: ***CA***

Certificate #: 0595-53ZMM5
Application Year: 02
Issue Date: 1/31/02
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval

Client Name:: Corporation of the Township of Dubreuilville
Client Address:: 23 rue des Pins
Client City:: Dubreuilville
Client Postal Code::
Project Description:: Class I WTP
Contaminants::
Emission Control::

Site: ***Dubreuilville Well Supply***
Magpie Road Dubreuilville ON

Database: ***CA***

Certificate #: 2374-56WH49
Application Year: 02
Issue Date: 1/31/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name:: The Corporation of the Township of Dubreuilville
Client Address:: 23 rue des Pins
Client City:: Dubreuilville
Client Postal Code::
Project Description:: Amendment to CofA to clarify monitoring; device's installation and requirements
Contaminants::
Emission Control::

Site: ***ADVENTURE CONSTRUCTION***
RUE DES PINS STREET B DUBREUILVILLE IMPR. DISTR. ON

Database: ***CA***

Certificate #: 3-1583-88-
Application Year: 88
Issue Date: 9/27/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***DUBREUILVILLE TOWNSHIP***
RUE DES PINS/MAGPIE RD. DUBREUILVILLE TWP. ON

Database: ***CA***

Certificate #: 3-1185-94-
Application Year: 94
Issue Date: 9/22/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***DUBREUIL FOREST PRODUCTS LTD.***
DUMPHY LOCATION, ALGOMA DIST. DUBREUILVILLE TWP. ON

Database: ***CA***

Certificate #: 8-6106-97-

Application Year: 97
Issue Date: 7/10/1998
Approval Type: Industrial air
Status:
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: TWO CYCLONES FOR LUMBER DRYING KILN SYS.
Contaminants:: Suspended Particulate Matter, Nitrogen Oxides, Naphthalene, Benzo(A) Pyrene, Other Contaminant, Sound
Emission Control:: Cyclone, Baghouse (Incl Vent Fil.), Thermal Incineration,

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Site: ***Dubreuil Lumber Inc.***
Dubreuilville ON

Database: ***EBR***

Company Name:
Year: 2014
Notice Type: Instrument Proposal
EBR Registry No.: 012-2686
Instrument Type: (Liquid Fuels Handling Code) - Liquid Fuels Handling Code Section
Proposal Date: September 26, 2014
Ministry Ref. No.: SR 1485704
Location: Mill Yard Property, Dubreuilville TOWNSHIP OF DUBREUILVILLE
Proponent Address: 21 Rue des Pins Rue, Dubreuilville Ontario, Canada P0S 1B0
Notice Date:

Site: ***1333437 Ontario Limited Dubreuil Forest Products***
Township of Dubreuilville ON

Database: ***LIMO***

C of A No: A740202
C of A Issue Date: 10/29/1999
C of A Issued to:
Operation Status: Closed
Landfill Type:
Total Site Area:
Footprint:
Tot Apprvd Capac:
Tot Aprv Cp Unit:
Fill Rate:
Fill Rate Unit:
Est Remain Cap:
ERC Volume Unit:
ERC Methodology:
ERC Dt Last Det:
Total Waste Rec:
TWR Unit:
TWR Methodology:
Site Name: 1333437 Ontario Limited (Dubreuilville Ville) Wood Waste Disposal
Air Emmis Monitor:
Leachate Off-Site:
Leachate On Site:
Landfill Gas Manag (P):
Landfill Gas Manag (F):
Landfill Gas Manag (E):
Req Col Lndfll Gas:
Lndfll Gas Cllcted:
Lndfll Gas Mntr:
Service Area:
Approved Waste Type:

Site County: Algoma
MOE Region: Northern
MOE District: Sault Ste. Marie
Easting:
Northing:
Latitude:
Longitude:
UTM Zone:
Data Source: small landfills
Cntm Attn Zn:
Grndwtr Mntr:
Surf Wtr Mntr:
Lst Rprting Yr:
Fin Assrnce:
Nat Attnuatn:
Liners:
Cvr Material:

Site: ***DUBREUIL FOREST PRODUCTS LTD***
MAIN ST DUBREUILVILLE ON

Database: ***PRT***

Location ID: 4182

Type: retail
Expiry Date: 1996-02-28
Capacity (L): 0
Licence #: 0013886001

Site: ***DUBREUIL FOREST PRODUCTS***
DUBREUIVILLE LUMBER YARD NEAR HERMAN CREEK 21 RUE DES PINS DUBREUILVILLE, ONT
ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 33539
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CONTAINER LEAK
Incident Dt: 4/22/1990
Incident Reason: EQUIPMENT FAILURE
Incident Summary: MNR -DISCOVERED LEAKING VALVE ON USED OIL STORAGETANK,
MOE Reported Dt: 4/22/1990
Environmental Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***Dubreuil Forest Products Inc.***
DUBREUIL FOREST PRODUCT MILL YARD<UNOFFICIAL> Dubreuilville ON

Database: ***SPL***

Ref No: 6854-5Z3RJB
Contaminant Code: 99
Contaminant Name: SAND/GRAVEL
Contaminant Quantity:
Incident Cause: Unknown
Incident Dt: 5/17/2004
Incident Reason: Weather
Incident Summary: Dubreuil Forest Product, sand to river
MOE Reported Dt: 5/17/2004
Environmental Impact: Possible
Nature of Impact: Surface Water Pollution
Receiving Medium: Water
SAC Action Class: Spill to Inland Watercourses
Sector Source Type: Other Plant
Receiving Environment:
Incident Event:
Site Municipality: Dubreuilville

Site: ***The Corporation of the Township of Dubreuilville***
Bell Rd Dubreuilville ON

Database: ***SPL***

Ref No: 0670-87EL4K
Contaminant Code: 99
Contaminant Name: WATER, chlorinated
Contaminant Quantity: 748 m3
Incident Cause:
Incident Dt:
Incident Reason:
Incident Summary: Dubreuilville reservoir overflow; 748 m3 chl. water
MOE Reported Dt: 7/16/2010
Environmental Impact:
Nature of Impact:
Receiving Medium:
SAC Action Class: Land Spills
Sector Source Type:

Receiving Environment:
Incident Event:
Site Municipality:

Site: ***The Corporation of the Township of Dubreuilville***
Magpie Road Dubreuilville ON

Database:
SPL

Ref No:	1635-5WKH9M
Contaminant Code:	28
Contaminant Name:	CHLORINE (LIQUIFIED)
Contaminant Quantity:	91 L
Incident Cause:	Other Discharges
Incident Dt:	2/26/2004
Incident Reason:	Error- Operator error
Incident Summary:	Dubreuilville - Liquid Chlorine to Ground
MOE Reported Dt:	2/26/2004
Environmental Impact:	Possible
Nature of Impact:	Groundwater Pollution; Soil Contamination; Surface Water Pollution
Receiving Medium:	Land & Water
SAC Action Class:	Spill to Land
Sector Source Type:	
Receiving Environment:	
Incident Event:	
Site Municipality:	Dubreuilville

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2016

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999 - Oct 2016

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2014

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks: Provincial CFOT

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999 - Oct 2016

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 31, 2012

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Mar 2017

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Mar 2017

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886-Aug 2015

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Mar 2017

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Mar 2017

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Mar 2017

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Aug 2016

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities: Provincial EXP

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: June 2000-Aug 2016

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sept 2003

Fuel Storage Tank: Provincial FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Sep 2016

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2015

TSSA Historic Incidents: Provincial HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

TSSA Incidents: Provincial INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Dec 31, 2013

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2016

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2014

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008 - Dec 2016

National Energy Board Wells: Federal NEBW

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-2014

Oil and Gas Wells: Private OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Jan 2017

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Oct 2016

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Mar 2017

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: 1988-Oct 2016

TSSA Pipeline Incidents: Provincial PINC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Mar 2017

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2013

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Dec 2016

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999 - Oct 2016

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Dec 2016

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-2014

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Jan 2015

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: 1970-Mar 2017

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Jun 30, 2016

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Station 2* *Na* *Dubreuilville ON*
Project No:	
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20170426150*
Requested by:	*Golder Associates Ltd.*
Date Completed:	*May 8, 2017*

Environmental Risk Information Services
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:		*Station 2* *Na Dubreuilville ON*
Project No:		
Coordinates:		
	Latitude:	*48.35256*
	Longitude:	*-84.54408*
	UTM Northing:	*5,358,401.66*
	UTM Easting:	*681,942.43*
	UTM Zone:	*UTM Zone 16U*
Elevation:		*1,102 FT* *335.92 M*

Order Information:

Order No:	*20170426150*
Date Requested:	*April 26, 2017*
Requested by:	*Golder Associates Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*National Collection - Digital (PDF)*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Specific Plans*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	*Abandoned Aggregate Inventory*	Y	0	0	0
AGR	*Aggregate Inventory*	Y	0	0	0
AMIS	*Abandoned Mine Information System*	Y	0	0	0
ANDR	*Anderson's Waste Disposal Sites*	Y	0	0	0
AUWR	*Automobile Wrecking & Supplies*	Y	0	0	0
BORE	*Borehole*	Y	0	0	0
CA	*Certificates of Approval*	Y	0	2	2
CFOT	*Commercial Fuel Oil Tanks*	Y	0	0	0
CHEM	*Chemical Register*	Y	0	0	0
CNG	*Compressed Natural Gas Stations*	Y	0	0	0
COAL	*Inventory of Coal Gasification Plants and Coal Tar Sites*	Y	0	0	0
CONV	*Compliance and Convictions*	Y	0	0	0
CPU	*Certificates of Property Use*	Y	0	0	0
DRL	*Drill Hole Database*	Y	0	0	0
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	3	3
ECA	*Environmental Compliance Approval*	Y	0	0	0
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	Y	0	0	0
EIIS	*Environmental Issues Inventory System*	Y	0	0	0
EMHE	*Emergency Management Historical Event*	Y	0	0	0
EXP	*List of TSSA Expired Facilities*	Y	0	0	0
FCON	*Federal Convictions*	Y	0	0	0
FCS	*Contaminated Sites on Federal Land*	Y	0	0	0
FOFT	*Fisheries & Oceans Fuel Tanks*	Y	0	0	0
FST	*Fuel Storage Tank*	Y	0	8	8
FSTH	*Fuel Storage Tank - Historic*	Y	0	2	2
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	6	6
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	0	0
IAFT	*Indian & Northern Affairs Fuel Tanks*	Y	0	0	0
INC	*TSSA Incidents*	Y	0	0	0
LIMO	*Landfill Inventory Management Ontario*	Y	0	0	0
MINE	*Canadian Mine Locations*	Y	0	0	0
MNR	*Mineral Occurrences*	Y	0	0	0
NATE	*National Analysis of Trends in Emergencies System (NATES)*	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	3	3
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	5	5
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	1	1
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	1	1
SPL	Ontario Spills	Y	0	1	1
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	1	1
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	3	3
	Total:		0	36	36

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
1	CA	DUBREUIL BROTHERS LIMITED	CH.INDUSTRIEL,RUE DES PINS DUBREUILVILLE IMPR. DISTR. ON	ESE/36.3	-0.18	16
2	WWIS		ON	NNW/87.7	-0.92	16
3	WWIS		ON	NNE/135.8	6.06	18
4	CA	DUBREUIL FOREST PRODUCTS LTD.	21 RUE DES PINS DUBREUILVILLE TWP. ON	SW/204.5	4.08	20
4	EBR	Dubreuil Forest Products Ltd.	21 RUE DES PINS Township of Dubreuilville ON	SW/204.5	4.08	21
4	EBR	Dubreuil Forest Products Ltd.	Township of Dubreuilville ON	SW/204.5	4.08	21
4	EBR	Dubreuil Forest Products Ltd.	J.C. 561 Reg. Plan 1B 1386 Parts 6 & 7 Dubreuilville ON	SW/204.5	4.08	21
4	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	21
4	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	22
4	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	22
4	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	22
4	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	23
4	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	23
4	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	23
4	FST	DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	23
4	FSTH	DUBREUIL FOREST PRODUCTS LTD	21 PINE ST DUBREUILVILLE ON	SW/204.5	4.08	24
4	FSTH	DUBREUIL FOREST PRODUCTS LTD	21 PINE ST DUBREUILVILLE ON	SW/204.5	4.08	25
4	GEN	DUBREUIL FOREST PRODUCTS	21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	26
4	GEN	DUBREUIL FOREST PRODUCTS 13-228	21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	26
4	GEN	DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	26
4	GEN	DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	SW/204.5	4.08	27
4	GEN	DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	SW/204.5	4.08	27
4	GEN	DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	SW/204.5	4.08	27

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
4	NPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET PINE STREET DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	28
4	NPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON	SW/204.5	4.08	28
4	NPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	28
4	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	29
4	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	29
4	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	29
4	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	30
4	OPCB	DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW/204.5	4.08	30
4	PES	LACROIX ENTERPRISES LTD.	21 RUE DES PINS DUBREAUIVILLE ON P0S 1B0	SW/204.5	4.08	30
4	SCT	Dubreuil Forest Products Ltd.	21 Pine St Dubreuilville ON P0S 1B0	SW/204.5	4.08	30
4	SPL	DUBREUIL FOREST PRODUCTS	DUBREUIVILLE LUMBER YARD NEAR HERMAN CREEK 21 RUE DES PINS DUBREUILVILLE, ONT ALGOMA DISTRICT ON	SW/204.5	4.08	31
4	WDS	2288016 Ontario Inc.	21 Rue des Pins Dubreuilville Township ON	SW/204.5	4.08	31
5	WWIS		ON	NNE/230.0	5.60	32

Executive Summary: Summary By Data Source

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 2 CA site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS LTD.	21 RUE DES PINS DUBREUILVILLE TWP. ON	SW	204.48	4

Lower Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL BROTHERS LIMITED	CH.INDUSTRIEL,RUE DES PINS DUBREUILVILLE IMPR. DISTR. ON	ESE	36.27	1

EBR - Environmental Registry

A search of the EBR database, dated 1994-Mar 2017 has found that there are 3 EBR site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Dubreuil Forest Products Ltd.	21 RUE DES PINS Township of Dubreuilville ON	SW	204.48	4
Dubreuil Forest Products Ltd.	J.C. 561 Reg. Plan 1B 1386 Parts 6 & 7 Dubreuilville ON	SW	204.48	4
Dubreuil Forest Products Ltd.	Township of Dubreuilville ON	SW	204.48	4

FST - Fuel Storage Tank

A search of the FST database, dated Feb 28, 2017 has found that there are 8 FST site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW	204.48	4

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL LUMBER INC	21 PINE ST DUBREUILVILLE ON P0S 1B0	SW	204.48	4

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS LTD	21 PINE ST DUBREUILVILLE ON	SW	204.48	4
DUBREUIL FOREST PRODUCTS LTD	21 PINE ST DUBREUILVILLE ON	SW	204.48	4

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Sep 2016 has found that there are 6 GEN site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	SW	204.48	4
DUBREUIL FOREST PRODUCTS 13-228	21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	SW	204.48	4
DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON	SW	204.48	4
DUBREUIL FOREST PRODUCTS	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL FOREST PRODUCTS	21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	SW	204.48	4

NPCB - National PCB Inventory

A search of the NPCB database, dated 1988-2008* has found that there are 3 NPCB site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON	SW	204.48	4
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET PINE STREET DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW	204.48	4

OPCB - Inventory of PCB Storage Sites

A search of the OPCB database, dated 1987-Oct 2004; 2012-Dec 2013 has found that there are 5 OPCB site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW	204.48	4
DUBREUIL FOREST PRODUCTS LIMITED	21 PINE STREET DUBREUILVILLE ON P0S 1B0	SW	204.48	4

PES - Pesticide Register

A search of the PES database, dated 1988-Oct 2016 has found that there are 1 PES site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
LACROIX ENTERPRISES LTD.	21 RUE DES PINS DUBREAUIVILLE ON P0S 1B0	SW	204.48	4

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 1 SCT site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
Dubreuil Forest Products Ltd.	21 Pine St Dubreuilville ON P0S 1B0	SW	204.48	4

SPL - Ontario Spills

A search of the SPL database, dated 1988-Dec 2016 has found that there are 1 SPL site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
DUBREUIL FOREST PRODUCTS	DUBREUIVILLE LUMBER YARD NEAR HERMAN CREEK 21 RUE DES PINS DUBREUILVILLE, ONT ALGOMA DISTRICT ON	SW	204.48	4

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated 1970-Mar 2017 has found that there are 1 WDS site(s) within approximately 0.25 kilometers of the project property.

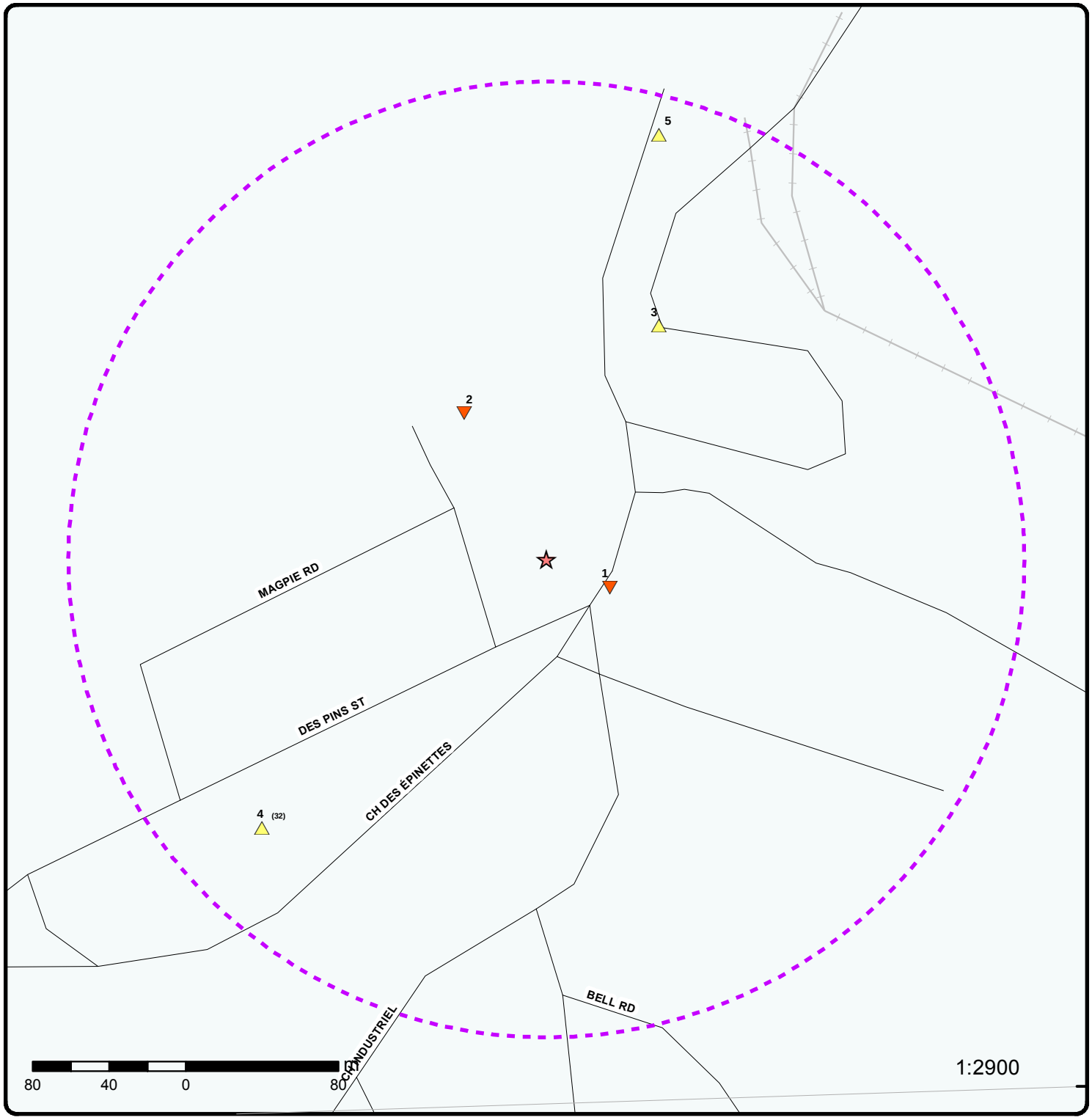
Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
2288016 Ontario Inc.	21 Rue des Pins Dubreuilville Township ON	SW	204.48	4

WWIS - Water Well Information System

A search of the WWIS database, dated Jun 30, 2016 has found that there are 3 WWIS site(s) within approximately 0.25 kilometers of the project property.

Equal/Higher Elevation	Address	Direction	Distance (m)	Map Key
	ON	NNE	135.81	3
	ON	NNE	230.03	5

Lower Elevation	Address	Direction	Distance (m)	Map Key
	ON	NNW	87.68	2



Map : 0.25 Kilometer Radius

Order No: 20170426150

Address: Na, Dubreuilville, ON

ENVIRONMENTAL RISK INFORMATION SERVICES

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation

- Expressway
- Principal Highway
- Secondary Highway
- Major Road
- Local road
- Trail
- Proposed Road
- Ferry Route/Ice Road

- Industrial and Resource - Regions
- Main Line
- Sidetrack
- Transit Line
- Abandoned Line

- National Park
- Provincial or Territorial Park
- Other Park
- Golf Course or Driving Range
- Park or Sports Field
- Other Recreation Area

Source: © 2015 DMTI Spatial Inc.

Aerial

Order No: 20170426150

Address: Na, Dubreuilville, ON

Source: ESRI World Imagery

ENVIRONMENTAL RISK INFORMATION SERVICES

Topographic Map

Address: Na, Dubreuilville, ON

Source: ESRI World Topographic Map

Order No: 20170426150

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
1	1 of 1	ESE/36.3	335.7	DUBREUIL BROTHERS LIMITED CH.INDUSTRIEL,RUE DES PINS DUBREUILVILLE IMPR. DISTR. ON	CA

Certificate #: 3-1299-88-
Application Year: 88
Issue Date: 8/31/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
2	1 of 1	NNW/87.7	335.0	ON	WWIS

Well ID: 1101507
Construction Date::
Primary Water Use:: Not Used
Sec. Water Use::
Final Well Status:: Abandoned-Quality
Specific Capacity::
Municipality: TOWNSHIP 28 RANGE 27 (UNSURVEYED)
County: ALGOMA

Lot:
Concession:
Concession Name:
Easting NAD83::
Northing NAD83::
Zone::
UTM Reliability::

Bore Hole Information
-- --
Bore Hole ID: 10001491
DP2BR:
Code OB: o
Code OB Description: Overburden
Open Hole:
Date Completed: 20-DEC-65
Remarks:
Zone: 16
East 83: 681899.3
North 83: 5358478
UTMRC: 9
UTMRC Description: unknown UTM
Location Method: p9
Org CS:
Elevation: 333.02
Elevrc:
Elevrc Description:
Location Source Date:
Source Revision Comment:
Improvement Location Source:
Improvement Location Method:
Supplier Comment:

Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	930907319
Layer:	1
General Color:	
Most Common Material:	GRAVEL
Other Materials:	
Other Materials:	
Formation Top Depth:	0
Formation End Depth:	35
Formation End Depth UOM:	ft
--	--
Formation ID:	930907320
Layer:	2
General Color:	
Most Common Material:	GRAVEL
Other Materials:	BOULDERS
Other Materials:	
Formation Top Depth:	35
Formation End Depth:	45
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961101507
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10550061
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930002228
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	45
Casing Diameter:	10
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Well Yield Testing	
--	--
Pump Test ID:	991101507
Pump Set At:	
Static Level:	12
Final Level After Pumping:	35
Recommended Pump Depth:	40
Pumping Rate:	40
Flowing Rate:	
Recommended Pump Rate:	40
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1

Pumping Duration HR:	8
Pumping Duration MIN:	0
Flowing:	N
--	--
Water Details	
--	--
Water ID:	933426779
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	45
Water Found Depth UOM:	ft
--	--
--	--

3 **1 of 1** **NNE/135.8** **342.0** **ON** **WWIS**

Well ID:	1103702	**Lot:**	
Construction Date::		**Concession:**	
Primary Water Use::	Municipal	**Concession Name:**	
Sec. Water Use::		**Easting NAD83::**	
Final Well Status::	Water Supply	**Northing NAD83::**	
Specific Capacity::		**Zone::**	
Municipality:	TOWNSHIP 28 RANGE 27 (UNSURVEYED)	**UTM Reliability::**	
County:	ALGOMA		

Bore Hole Information	
--	--
Bore Hole ID:	10003655
DP2BR:	
Code OB:	o
Code OB Description:	Overburden
Open Hole:	
Date Completed:	20-OCT-81
Remarks:	
Zone:	16
East 83:	682001.4
North 83:	5358524
UTMRC:	5
UTMRC Description:	margin of error : 100 m - 300 m
Location Method:	p5
Org CS:	
Elevation:	342.71
Elevrc:	
Elevrc Description:	
Location Source Date:	
Source Revision Comment:	
Improvement Location Source:	
Improvement Location Method:	
Supplier Comment:	
Spatial Status:	
--	--
Overburden and Bedrock Materials Interval	
--	--
Formation ID:	930915994
Layer:	1
General Color:	BROWN
Most Common Material:	COARSE SAND
Other Materials:	BOULDERS
Other Materials:	GRAVEL
Formation Top Depth:	0
Formation End Depth:	16
Formation End Depth UOM:	ft

--	--
Formation ID:	930915995
Layer:	2
General Color:	GREY
Most Common Material:	COARSE SAND
Other Materials:	STONES
Other Materials:	BOULDERS
Formation Top Depth:	16
Formation End Depth:	61
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961103702
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10552225
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930005195
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	50
Casing Diameter:	6
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	933323498
Layer:	1
Slot:	010
Screen Top Depth:	48
Screen End Depth:	62
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	5.75
--	--
Well Yield Testing	
--	--
Pump Test ID:	991103702
Pump Set At:	
Static Level:	20
Final Level After Pumping:	23
Recommended Pump Depth:	35
Pumping Rate:	160
Flowing Rate:	
Recommended Pump Rate:	160
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	24

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

Pumping Duration MIN:	0
Flowing:	N
--	--
Draw Down & Recovery	
--	--
Pump Test Detail ID:	934088273
Pump Test ID:	991103702
Test Type:	Draw Down
Test Duration:	15
Test Level:	23
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934371439
Pump Test ID:	991103702
Test Type:	Draw Down
Test Duration:	30
Test Level:	23
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934637478
Pump Test ID:	991103702
Test Type:	Draw Down
Test Duration:	45
Test Level:	23
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934885914
Pump Test ID:	991103702
Test Type:	Draw Down
Test Duration:	60
Test Level:	23
Test Level UOM:	ft
--	--
--	--
Water Details	
--	--
Water ID:	933429170
Layer:	1
Kind Code:	5
Kind:	Not stated
Water Found Depth:	46
Water Found Depth UOM:	ft
--	--
Water ID:	933429171
Layer:	2
Kind Code:	5
Kind:	Not stated
Water Found Depth:	61
Water Found Depth UOM:	ft
--	--
--	--

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	1 of 32	SW/204.5	340.0	**DUBREUIL FOREST PRODUCTS LTD.** **21 RUE DES PINS** **DUBREUILVILLE TWP. ON**	CA

Certificate #:	8-6073-97-
Application Year:	97
Issue Date:	9/2/1997
Approval Type:	Industrial air
Status:	Cancelled
Application Type:	
Client Name::	
Client Address::	
Client City::	

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Client Postal Code::					
Project Description::	ENERGEX DRY KILN SYSTEM				
Contaminants::					
Emission Control::					

4	2 of 32	SW/204.5	340.0	**Dubreuil Forest Products Ltd.** **21 RUE DES PINS** **Township of Dubreuilville ON**	EBR

Company Name:	
Year:	1997
Notice Type:	Instrument
EBR Registry No.:	IA7E1141
Instrument Type:	EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date:	8/5/97
Ministry Ref. No.:	
Location:	Township of Dubreuilville
Proponent Address:	Dubreuil Forest Products Ltd.PO Box 100, 21 Rue Des Pins,Dubreuilville, Ontario, P0S 1B0
Notice Date:	

4	3 of 32	SW/204.5	340.0	**Dubreuil Forest Products Ltd.** **Township of Dubreuilville ON**	EBR

Company Name:	
Year:	1997
Notice Type:	Instrument
EBR Registry No.:	IA7E1831
Instrument Type:	EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date:	12/17/97
Ministry Ref. No.:	
Location:	Township of Dubreuilville
Proponent Address:	Dubreuil Forest Products Ltd.,PO Box 100, 21 Rue Des Pins,Dubreuilville, Ontario,P0S 1B0
Notice Date:	

4	4 of 32	SW/204.5	340.0	**Dubreuil Forest Products Ltd.** **J.C. 561 Reg. Plan 1B 1386 Parts 6 & 7** **Dubreuilville ON**	EBR

Company Name:	
Year:	2000
Notice Type:	Instrument
EBR Registry No.:	IA00E1568
Instrument Type:	EPA s. 9 - Approval for discharge into the natural environment other than water (i.e. Air)
Proposal Date:	
Ministry Ref. No.:	
Location:	J.C. 561 Reg. Plan 1B 1386 Parts 6 & 7,Dubreuilville, OntarioDubreuilville
Proponent Address:	Dubreuil Forest Products Ltd.21 Rue des Pins,Dubreuilville, Ontario, P0S 1B0
Notice Date:	

4	5 of 32	SW/204.5	340.0	**DUBREUIL LUMBER INC** **21 PINE ST** **DUBREUILVILLE ON P0S 1B0**	FST

Instance No:	10737060
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Diesel
Status:	Active

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

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4 | **6 of 32** | **SW/204.5** | **340.0**

DUBREUIL LUMBER INC
21 PINE ST
DUBREUILVILLE ON P0S 1B0

FST

Instance No: 11421920
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1989
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

---

4 | **7 of 32** | **SW/204.5** | **340.0**

DUBREUIL LUMBER INC
21 PINE ST
DUBREUILVILLE ON P0S 1B0

FST

Instance No: 11405030
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Diesel
Status: Active
Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

---

4 | **8 of 32** | **SW/204.5** | **340.0**

DUBREUIL LUMBER INC
21 PINE ST
DUBREUILVILLE ON P0S 1B0

FST

Instance No: 11405079
Cont Name:
Instance Type: FS Liquid Fuel Tank
Fuel Type: Gasoline
Status: Active
Capacity: 45400
Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	9 of 32	SW/204.5	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No:	11421964
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Gasoline
Status:	Active
Capacity:	45400
Tank Material:	Steel
Corrosion Protection:	Sacrificial anode
Tank Type:	Single Wall UST
Install Year:	1989
Parent Facility Type:	FS Gasoline Station - Card/Keylock
Facility Type:	FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	10 of 32	SW/204.5	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No:	11421945
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Gasoline
Status:	Active
Capacity:	45400
Tank Material:	Steel
Corrosion Protection:	Sacrificial anode
Tank Type:	Single Wall UST
Install Year:	1989
Parent Facility Type:	FS Gasoline Station - Card/Keylock
Facility Type:	FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	11 of 32	SW/204.5	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No:	11405049
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Diesel
Status:	Active
Capacity:	45400
Tank Material:	Steel
Corrosion Protection:	Sacrificial anode
Tank Type:	Single Wall UST
Install Year:	1990
Parent Facility Type:	FS Gasoline Station - Card/Keylock
Facility Type:	FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	12 of 32	SW/204.5	340.0	DUBREUIL LUMBER INC 21 PINE ST DUBREUILVILLE ON P0S 1B0	FST

Instance No:	11405008
Cont Name:	
Instance Type:	FS Liquid Fuel Tank
Fuel Type:	Diesel
Status:	Active
Capacity:	45400

Tank Material: Steel
Corrosion Protection: Sacrificial anode
Tank Type: Single Wall UST
Install Year: 1990
Parent Facility Type: FS Gasoline Station - Card/Keylock
Facility Type: FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	13 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS LTD 21 PINE ST DUBREUILVILLE ON	FSTH

License Issue Date: 3/15/2002
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--
Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:

Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	14 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS LTD 21 PINE ST DUBREUILVILLE ON	FSTH

License Issue Date: 3/15/2002
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--
Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Status: Active
Year of Installation: 1990
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1989
Corrosion Protection:
Capacity: 45400
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB
4	15 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS 21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0		GEN

PO Box Num:
Status:
Country:
Generator #: ON0761100
Approval Yrs:: 90
SIC Code: 2512
SIC Description: SAWMILL & PLANING

--Details--
Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Waste Code: 232
Waste Description: POLYMERIC RESINS

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB
4	16 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS 21 PINE ST. PO BOX 100 DUBREUILVILLE ON P0S 1B0	13-228	GEN

PO Box Num:
Status:
Country:
Generator #: ON0761100
Approval Yrs:: 94,95,96
SIC Code: 2512
SIC Description: SAWMILL & PLANING

--Details--
Waste Code: 232
Waste Description: POLYMERIC RESINS

Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Waste Code: 112
Waste Description: ACID WASTE - HEAVY METALS

Waste Code: 213
Waste Description: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site		DB
4	17 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS 21 PINE STREET DUBREUILVILLE ON P0S 1B0		GEN

PO Box Num:
Status:
Country:
Generator #: ON8106488
Approval Yrs:: 04,05,06,07,08
SIC Code: 416320

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

SIC Description: Lumber Plywood and Millwork Wholesaler-Distributors

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

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4 | ***18 of 32*** | ***SW/204.5*** | ***340.0*** | ***DUBREUIL FOREST PRODUCTS***
21 PINE STREET
DUBREUILVILLE ON | ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON8106488
Approval Yrs:: 2009
SIC Code: 416320
SIC Description: Lumber Plywood and Millwork Wholesaler-Distributors

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

---

4 | ***19 of 32*** | ***SW/204.5*** | ***340.0*** | ***DUBREUIL FOREST PRODUCTS***
21 PINE STREET
DUBREUILVILLE ON | ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON8106488
Approval Yrs:: 2010
SIC Code: 416320
SIC Description: Lumber Plywood and Millwork Wholesaler-Distributors

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

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4 | ***20 of 32*** | ***SW/204.5*** | ***340.0*** | ***DUBREUIL FOREST PRODUCTS***
21 PINE STREET
DUBREUILVILLE ON | ***GEN***

PO Box Num:
Status:
Country:
Generator #: ON8106488
Approval Yrs:: 2011
SIC Code: 416320
SIC Description: Lumber Plywood and Millwork Wholesaler-Distributors

--Details--
Waste Code: 252
Waste Description: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	21 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET PINE STREET DUBREUILVILLE ON P0S 1B0	NPCB

Company Code: F1451
Industry:
Site Status:
Transaction Date:
Inspection Date:

--Details--
Label:
Serial No.:
PCB Type/Code:
Location:
Item/State:
No. of Items:
Manufacturer:
Status: In-Storage
Contents:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	22 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON	NPCB

Company Code: F1471
Industry: Undefined
Site Status: Stored for Disposal
Transaction Date: 12/30/1995
Inspection Date:

--Details--
Label:
Serial No.:
PCB Type/Code: Askarel/Askarel
Location:
Item/State:
No. of Items:
Manufacturer:
Status: Stored for disposal
Contents:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	23 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	NPCB

Company Code: F1471
Industry: UNDEFINED
Site Status:
Transaction Date:
Inspection Date:

--Details--
Label: F147100
Serial No.:
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: CAPACITOR/FULL
No. of Items: 3
Manufacturer:

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
Status:		STORED FOR DISPOSAL			
Contents:		52 KG			

4	24 of 32	SW/204.5	340.0	**DUBREUIL FOREST PRODUCTS LIMITED** **21 PINE STREET** **DUBREUILVILLE ON P0S 1B0**	OPCB

Year: 1998
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3.00
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52.00
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

4	25 of 32	SW/204.5	340.0	**DUBREUIL FOREST PRODUCTS LIMITED** **21 PINE STREET** **DUBREUILVILLE ON P0S 1B0**	OPCB

Year: 1999
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3.00
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52.00
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

4	26 of 32	SW/204.5	340.0	**DUBREUIL FOREST PRODUCTS LIMITED** **21 PINE STREET** **DUBREUILVILLE ON P0S 1B0**	OPCB

Year: 2000
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3.00
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52.00
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	27 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	OPCB

Year: 2003
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3.00
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52.00
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

---

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	28 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS LIMITED 21 PINE STREET DUBREUILVILLE ON P0S 1B0	OPCB

Year: 2004
Site Number: 50385A013
Name Owner:
Additional Site Information:

--Details--
Quantity: 3
Address Site:
Description: Number of Capacitors with High Level PCBs (>1000 ppm)

Quantity: 52
Address Site:
Description: Weight of Capacitors with High Level PCBs (>1000 ppm) kg

---

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	29 of 32	SW/204.5	340.0	LACROIX ENTERPRISES LTD. 21 RUE DES PINS DUBREAUIVILLE ON P0S 1B0	PES

Detail Licence No.:
Licence Type: Vendor

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	30 of 32	SW/204.5	340.0	Dubreuil Forest Products Ltd. 21 Pine St Dubreuilville ON P0S 1B0	SCT

Established: 01-JUN-56
Plant Size (ft²): 30000
Employment:

--Details--
Description: Sawmills (except Shingle and Shake Mills)
SIC/NAICS Code: 321111

Description: Sawmills (except Shingle and Shake Mills)
SIC/NAICS Code: 321111

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

Description: All Other Miscellaneous Wood Product Manufacturing
SIC/NAICS Code: 321999

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	31 of 32	SW/204.5	340.0	DUBREUIL FOREST PRODUCTS DUBREUIVILLE LUMBER YARD NEAR HERMAN CREEK 21 RUE DES PINS DUBREUILVILLE, ONT ALGOMA DISTRICT ON	SPL

Ref No: 33539
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CONTAINER LEAK
Incident Dt: 4/22/1990
Incident Reason: EQUIPMENT FAILURE
Incident Summary: MNR -DISCOVERED LEAKING VALVE ON USED OIL STORAGETANK,
MOE Reported Dt: 4/22/1990
Environmental Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB
4	32 of 32	SW/204.5	340.0	2288016 Ontario Inc. 21 Rue des Pins Dubreuilville Township ON	WDS

Certificate No.: 8787-A8HMEW
Issue Date: 2016-03-23
Status: Approved
Application Status:
Concession:
Lot:
Region/County: Dubreuilville Township
Proponent:
Address:
City:
Facility Type:
District Office:
Municipalities Served:
Total Area (ha):
Landfill Capacity (m^3):
Landfill Monitoring:
Landfill Control Type:
Est. Closure Date:
Transfer Area (ha):
Transfer Capacity (m^3):
Transfer Sites Certificate No.:
Incinerator Area (ha):
Incinerator Capacity (t):
Processing Area (m^3):
Processing Capacity (m^3/d):
Processing Volume (m^3):
Processing Feed (m^3):
Mobile Units:
Mobile Description:
Mobile Capacity:

Mobile Unit Certificate No.:
Waste Type:
Waste Type Other:
Waste Class:
Other Approvals/Permits:
Approval Description:
Waste Description:
Site Closing Description:
PDF URL: https://www.accessenvironment.ene.gov.on.ca/instruments/5008-99QJQJ-14.pdf
Record Type:
Project Type: Waste Disposal Sites
Latitude:
Longitude:

---

5 ***1 of 1*** ***NNE/230.0*** ***341.5*** ***ON*** ***WWIS***

Well ID:	1103701	***Lot:***	
Construction Date::		***Concession:***	
Primary Water Use::	Municipal	***Concession Name:***	
Sec. Water Use::		***Easting NAD83::***	
Final Well Status::	Test Hole	***Northing NAD83::***	
Specific Capacity::		***Zone::***	
Municipality:	TOWNSHIP 28 RANGE 27 (UNSURVEYED)	***UTM Reliability::***	
County:	ALGOMA		

Bore Hole Information
-- --
Bore Hole ID: 10003654
DP2BR:
Code OB: o
Code OB Description: Overburden
Open Hole:
Date Completed: 03-OCT-81
Remarks:
Zone: 16
East 83: 682001.4
North 83: 5358624
UTMRC: 5
UTMRC Description: margin of error : 100 m - 300 m
Location Method: p5
Org CS:
Elevation: 343.03
Elevrc:
Elevrc Description:
Location Source Date:
Source Revision Comment:
Improvement Location Source:
Improvement Location Method:
Supplier Comment:
Spatial Status:
-- --
Overburden and Bedrock Materials Interval
-- --
Formation ID: 930915992
Layer: 1
General Color: BROWN
Most Common Material: COARSE SAND
Other Materials: GRAVEL
Other Materials: STONES
Formation Top Depth: 0
Formation End Depth: 43
Formation End Depth UOM: ft

--	--
Formation ID:	930915993
Layer:	2
General Color:	GREY
Most Common Material:	COARSE SAND
Other Materials:	STONES
Other Materials:	BOULDERS
Formation Top Depth:	43
Formation End Depth:	62
Formation End Depth UOM:	ft
--	--
Method of Construction & Well Use	
--	--
Method Construction ID:	961103701
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	
--	--
Pipe Information	
--	--
Pipe ID:	10552224
Casing Number:	1
Comment:	
Alt Name:	
--	--
Construction Record - Casing	
--	--
Casing ID:	930005193
Layer:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	56
Casing Diameter:	2
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
Casing ID:	930005194
Layer:	2
Open Hole or Material:	STEEL
Depth From:	
Depth To:	61
Casing Diameter:	1
Casing Diameter UOM:	inch
Casing Depth UOM:	ft
--	--
--	--
Construction Record - Screen	
--	--
Screen ID:	933323497
Layer:	1
Slot:	025
Screen Top Depth:	56
Screen End Depth:	62
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.5
--	--
Well Yield Testing	
--	--
Pump Test ID:	991103701
Pump Set At:	
Static Level:	18
Final Level After Pumping:	18
Recommended Pump Depth:	30

Pumping Rate:	25
Flowing Rate:	
Recommended Pump Rate:	25
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	1
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	N
--	--
Draw Down & Recovery	
--	--
Pump Test Detail ID:	934088272
Pump Test ID:	991103701
Test Type:	Draw Down
Test Duration:	15
Test Level:	18
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934371438
Pump Test ID:	991103701
Test Type:	Draw Down
Test Duration:	30
Test Level:	18
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934637477
Pump Test ID:	991103701
Test Type:	Draw Down
Test Duration:	45
Test Level:	18
Test Level UOM:	ft
--	--
Pump Test Detail ID:	934885913
Pump Test ID:	991103701
Test Type:	Draw Down
Test Duration:	60
Test Level:	18
Test Level UOM:	ft
--	--
--	--
Water Details	
--	--
Water ID:	933429168
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	48
Water Found Depth UOM:	ft
--	--
Water ID:	933429169
Layer:	2
Kind Code:	1
Kind:	FRESH
Water Found Depth:	62
Water Found Depth UOM:	ft
--	--
--	--

Unplottable Summary

Total: 27 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
AGR	DUBREUIL FOREST PRODUCTS LIMITED		MAKAWA ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		MAKAWA ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		DOUCETT ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		NEBOTIK ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		ABIGO ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		CHALLENER ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		CHENARD ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		ATKINSON ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		AMIK ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		ATKINSON ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		DOUCETT ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		NEBOTIK ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		AMIK ON	
AGR	DUBREUIL FOREST PRODUCTS LIMITED		ABIGO ON	
CA	DUBREUIL FOREST PRODUCTS LTD.	DUMPHY LOCATION, ALGOMA DIST.	DUBREUILVILLE TWP. ON	
CA	ADVENTURE CONSTRUCTION	RUE DES PINS	DUBREUILVILLE IMPR. DISTR. ON	
CA	DUBREUILVILLE TOWNSHIP	RUE DES PINS/MAGPIE RD.	DUBREUILVILLE TWP. ON	

CA	DUBREUIL FOREST PRODUCTS LTD.	SAWMILL SITE, ALGOMA DIST.	DUBREUILVILLE IMPR. DIST. ON
CA	ADVENTURE CONSTRUCTION	RUE DES PINS STREET B	DUBREUILVILLE IMPR. DISTR. ON
CA	Dubreuilville Well Supply	Magpie Road	Dubreuilville ON
CA	Dubreuilville Well Supply	Magpie Road	Township of Dubreuilville ON
EBR	Dubreuil Lumber Inc.		Dubreuilville ON
LIMO	1333437 Ontario Limited Dubreuil Forest Products		Township of Dubreuilville ON
SPL	Dubreuil Forest Products Inc.	DUBREUIL FOREST PRODUCT MILL YARD<UNOFFICIAL>	Dubreuilville ON
SPL	The Corporation of the Township of Dubreuilville	Magpie Road	Dubreuilville ON
SPL	DUBREUIL FOREST PRODUCTS	AT THE CORNER OF DREE RD. & FRANZ RD., 11 KM N. OF DUBREUILVILLE 21 RUE DES PINS DUBREUILVILLE, ONT	DUBREUILVILLE TOWNSHIP ON
SPL	The Corporation of the Township of Dubreuilville	Bell Rd	Dubreuilville ON

Unplottable Report

Site: ***DUBREUIL FOREST PRODUCTS LIMITED***
MAKAWA ON

Database: ***AGR***

ID:	16058
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	30000
Unlimted Tonnage:	
Geographic Township:	MAKAWA
Client Name:	DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::	
Extraction Area::	
Licenced Area::	3
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	

Site: ***DUBREUIL FOREST PRODUCTS LIMITED***
MAKAWA ON

Database: ***AGR***

ID:	16058
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	30000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	3
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED***
DOUCETT ON

Database: ***AGR***

ID:	14439
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	10000
Unlimted Tonnage:	

Geographic Township: DOUCETT
Client Name: DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::
Extraction Area::
Licenced Area:: 4
Lot::
Concession::
Section::
Muncipality::
County:: ALGOMA D
District::

Site: ***DUBREUIL FOREST PRODUCTS LIMITED NEBOTIK ON*** ***Database:*** ***AGR***

ID: 16465
Approval Type: Aggregate Permit
Effective Date::
Current Status:
Status Date:
Operation Type: Pit
Max Tonnage: 50000
Unlimted Tonnage:
Geographic Township: NEBOTIK
Client Name: DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::
Extraction Area::
Licenced Area:: 11
Lot::
Concession::
Section::
Muncipality::
County:: ALGOMA D
District::

Site: ***DUBREUIL FOREST PRODUCTS LIMITED ABIGO ON*** ***Database:*** ***AGR***

ID: 18159
Approval Type: Aggregate Permit
Effective Date::
Current Status:
Status Date:
Operation Type: Pit
Max Tonnage: 20000
Unlimted Tonnage:
Geographic Township:
Client Name:
Authority Type::
Extraction Area::
Licenced Area:: 9
Lot::
Concession::
Section::
Muncipality::
County:: ALGOMA D
District:: Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED CHALLENER ON*** ***Database:*** ***AGR***

ID: 602901
Approval Type: Aggregate Permit
Effective Date::
Current Status:

Status Date:
Operation Type: Pit
Max Tonnage: 50000
Unlimted Tonnage:
Geographic Township:
Client Name:
Authority Type::
Extraction Area::
Licenced Area:: 5.2
Lot::
Concession::
Section::
Muncipality:: ALGOMA D - UNORGANIZED AREAS
County:: ALGOMA D
District:: Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED CHENARD ON***

Database: ***AGR***

ID: 84995
Approval Type: Aggregate Permit
Effective Date::
Current Status:
Status Date:
Operation Type: Pit
Max Tonnage: 50000
Unlimted Tonnage:
Geographic Township:
Client Name:
Authority Type::
Extraction Area::
Licenced Area:: 26.8
Lot::
Concession::
Section::
Muncipality:: ALGOMA D - UNORGANIZED AREAS
County:: ALGOMA D
District:: Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED ATKINSON ON***

Database: ***AGR***

ID: 15468
Approval Type: Aggregate Permit
Effective Date::
Current Status:
Status Date:
Operation Type: Pit
Max Tonnage: 10000
Unlimted Tonnage:
Geographic Township: ATKINSON
Client Name: DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::
Extraction Area::
Licenced Area:: 3
Lot::
Concession::
Section::
Muncipality::
County:: ALGOMA D
District::

Site: ***DUBREUIL FOREST PRODUCTS LIMITED AMIK ON***

Database: ***AGR***

ID:	17868
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	10000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	7
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED ATKINSON ON***

Database: ***AGR***

ID:	15468
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	10000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	3
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED DOUCETT ON***

Database: ***AGR***

ID:	14439
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	10000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	4
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED NEBOTIK ON***

Database: ***AGR***

ID:	16465
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	50000
Unlimted Tonnage:	
Geographic Township:	
Client Name:	
Authority Type::	
Extraction Area::	
Licenced Area::	11
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	Wawa District

Site: ***DUBREUIL FOREST PRODUCTS LIMITED AMIK ON***

Database: ***AGR***

ID:	17868
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	10000
Unlimted Tonnage:	
Geographic Township:	AMIK
Client Name:	DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::	
Extraction Area::	
Licenced Area::	7
Lot::	
Concession::	
Section::	
Muncipality::	
County::	ALGOMA D
District::	

Site: ***DUBREUIL FOREST PRODUCTS LIMITED ABIGO ON***

Database: ***AGR***

ID:	18159
Approval Type:	Aggregate Permit
Effective Date::	
Current Status:	
Status Date:	
Operation Type:	Pit
Max Tonnage:	20000
Unlimted Tonnage:	
Geographic Township:	ABIGO
Client Name:	DUBREUIL FOREST PRODUCTS LIMITED
Authority Type::	
Extraction Area::	
Licenced Area::	9
Lot::	
Concession::	
Section::	
Muncipality::	

County:: ALGOMA D
District::

Site: ***DUBREUIL FOREST PRODUCTS LTD.***
DUMPHY LOCATION, ALGOMA DIST. DUBREUILVILLE TWP. ON

Database: ***CA***

Certificate #: 8-6106-97-
Application Year: 97
Issue Date: 7/10/1998
Approval Type: Industrial air
Status:
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: TWO CYCLONES FOR LUMBER DRYING KILN SYS.
Contaminants:: Suspended Particulate Matter, Nitrogen Oxides, Naphthalene, Benzo(A) Pyrene, Other Contaminant, Sound
Emission Control:: Cyclone, Baghouse (Incl Vent Fil.), Thermal Incineration,

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Site: ***ADVENTURE CONSTRUCTION***
RUE DES PINS DUBREUILVILLE IMPR. DISTR. ON

Database: ***CA***

Certificate #: 7-1362-88-
Application Year: 88
Issue Date: 9/27/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***DUBREUILVILLE TOWNSHIP***
RUE DES PINS/MAGPIE RD. DUBREUILVILLE TWP. ON

Database: ***CA***

Certificate #: 3-1185-94-
Application Year: 94
Issue Date: 9/22/1994
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***DUBREUIL FOREST PRODUCTS LTD.***
SAWMILL SITE, ALGOMA DIST. DUBREUILVILLE IMPR. DIST. ON

Database: ***CA***

Certificate #: 8-5041-93-
Application Year: 93
Issue Date: 7/11/1994
Approval Type: Industrial air
Status: Underwent 1st revision in 1994
Application Type:

Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description:: CYCLONE SEPARATORS, LUMBER DRY KILN
Contaminants:: Suspended Particulate Matter
Emission Control:: Cyclone

Site: ***ADVENTURE CONSTRUCTION***
RUE DES PINS STREET B DUBREUILVILLE IMPR. DISTR. ON

Database: ***CA***

Certificate #: 3-1583-88-
Application Year: 88
Issue Date: 9/27/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name::
Client Address::
Client City::
Client Postal Code::
Project Description::
Contaminants::
Emission Control::

Site: ***Dubreuilville Well Supply***
Magpie Road Dubreuilville ON

Database: ***CA***

Certificate #: 2374-56WH49
Application Year: 02
Issue Date: 1/31/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: Amended CofA
Client Name:: The Corporation of the Township of Dubreuilville
Client Address:: 23 rue des Pins
Client City:: Dubreuilville
Client Postal Code::
Project Description:: Amendment to CofA to clarify monitoring; device's installation and requirements
Contaminants::
Emission Control::

Site: ***Dubreuilville Well Supply***
Magpie Road Township of Dubreuilville ON

Database: ***CA***

Certificate #: 0595-53ZMM5
Application Year: 02
Issue Date: 1/31/02
Approval Type: Municipal & Private water
Status: Revoked and/or Replaced
Application Type: New Certificate of Approval
Client Name:: Corporation of the Township of Dubreuilville
Client Address:: 23 rue des Pins
Client City:: Dubreuilville
Client Postal Code::
Project Description:: Class I WTP
Contaminants::
Emission Control::

Site: ***Dubreuil Lumber Inc.***
Dubreuilville ON

Database: ***EBR***

Company Name:

Year:	2014
Notice Type:	Instrument Proposal
EBR Registry No.:	012-2686
Instrument Type:	(Liquid Fuels Handling Code) - Liquid Fuels Handling Code Section
Proposal Date:	September 26, 2014
Ministry Ref. No.:	SR 1485704
Location:	Mill Yard Property, Dubreuilville TOWNSHIP OF DUBREUILVILLE
Proponent Address:	21 Rue des Pins Rue, Dubreuilville Ontario, Canada P0S 1B0
Notice Date:	

Site: ***1333437 Ontario Limited Dubreuil Forest Products Township of Dubreuilville ON***

Database: ***LIMO***

C of A No:	A740202	***Site County:***	Algoma
C of A Issue Date:	10/29/1999	***MOE Region:***	Northern
C of A Issued to:		***MOE District:***	Sault Ste. Marie
Operation Status:	Closed	***Easting:***	
Landfill Type:		***Northing:***	
Total Site Area:		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprvd Capac:		***UTM Zone:***	
Tot Aprv Cp Unit:		***Data Source:***	small landfills
Fill Rate:		***Cntm Attn Zn:***	
Fill Rate Unit:		***Grndwtr Mntr:***	
Est Remain Cap:		***Surf Wtr Mntr:***	
ERC Volume Unit:		***Lst Rprting Yr:***	
ERC Methodology:		***Fin Assrnce:***	
ERC Dt Last Det:		***Nat Attnuatn:***	
Total Waste Rec:		***Liners:***	
TWR Unit:		***Cvr Material:***	
TWR Methodology:			
Site Name:	1333437 Ontario Limited (Dubreuilville Ville) Wood Waste Disposal		
Air Emmis Monitor:			
Leachate Off-Site:			
Leachate On Site:			
Landfill Gas Manag (P):			
Landfill Gas Manag (F):			
Landfill Gas Manag (E):			
Req Col Lndfll Gas:			
Lndfll Gas Cllcted:			
Lndfll Gas Mntr:			
Service Area:			
Approved Waste Type:			

Site: ***Dubreuil Forest Products Inc. DUBREUIL FOREST PRODUCT MILL YARD<UNOFFICIAL> Dubreuilville ON***

Database: ***SPL***

Ref No:	6854-5Z3RJB
Contaminant Code:	99
Contaminant Name:	SAND/GRAVEL
Contaminant Quantity:	
Incident Cause:	Unknown
Incident Dt:	5/17/2004
Incident Reason:	Weather
Incident Summary:	Dubreuil Forest Product, sand to river
MOE Reported Dt:	5/17/2004
Environmental Impact:	Possible
Nature of Impact:	Surface Water Pollution
Receiving Medium:	Water
SAC Action Class:	Spill to Inland Watercourses
Sector Source Type:	Other Plant
Receiving Environment:	
Incident Event:	
Site Municipality:	Dubreuilville

Site: ***The Corporation of the Township of Dubreuilville***
Magpie Road Dubreuilville ON

Database: ***SPL***

Ref No:	1635-5WKH9M
Contaminant Code:	28
Contaminant Name:	CHLORINE (LIQUIFIED)
Contaminant Quantity:	91 L
Incident Cause:	Other Discharges
Incident Dt:	2/26/2004
Incident Reason:	Error- Operator error
Incident Summary:	Dubreuilville - Liquid Chlorine to Ground
MOE Reported Dt:	2/26/2004
Environmental Impact:	Possible
Nature of Impact:	Groundwater Pollution; Soil Contamination; Surface Water Pollution
Receiving Medium:	Land & Water
SAC Action Class:	Spill to Land
Sector Source Type:	
Receiving Environment:	
Incident Event:	
Site Municipality:	Dubreuilville

Site: ***DUBREUIL FOREST PRODUCTS***
AT THE CORNER OF DREE RD. & FRANZ RD., 11 KM N. OF DUBREUILVILLE 21 RUE DES PINS
DUBREUILVILLE, ONT DUBREUILVILLE TOWNSHIP ON

Database: ***SPL***

Ref No:	220241
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	OTHER CONTAINER LEAK
Incident Dt:	1/21/2002
Incident Reason:	UNKNOWN
Incident Summary:	DUBREUIL FOREST PRODUCTS - 450 L OF DIESEL FUEL TORD. & DITCH FROM TRUCK.
MOE Reported Dt:	1/23/2002
Environmental Impact:	POSSIBLE
Nature of Impact:	Soil contamination
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Receiving Environment:	
Incident Event:	
Site Municipality:	80619

Site: ***The Corporation of the Township of Dubreuilville***
Bell Rd Dubreuilville ON

Database: ***SPL***

Ref No:	0670-87EL4K
Contaminant Code:	99
Contaminant Name:	WATER, chlorinated
Contaminant Quantity:	748 m3
Incident Cause:	
Incident Dt:	
Incident Reason:	
Incident Summary:	Dubreuilville reservoir overflow; 748 m3 chl. water
MOE Reported Dt:	7/16/2010
Environmental Impact:	
Nature of Impact:	
Receiving Medium:	
SAC Action Class:	Land Spills
Sector Source Type:	
Receiving Environment:	
Incident Event:	
Site Municipality:	

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2016

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999 - Oct 2016

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2014

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks: Provincial CFOT

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999 - Oct 2016

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 31, 2012

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Mar 2017

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Mar 2017

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886-Aug 2015

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Mar 2017

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Mar 2017

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Mar 2017

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Aug 2016

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities: Provincial EXP

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: June 2000-Aug 2016

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sept 2003

Fuel Storage Tank: Provincial FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Sep 2016

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2015

TSSA Historic Incidents: Provincial HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

TSSA Incidents: Provincial INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Dec 31, 2013

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2016

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2014

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008 - Dec 2016

National Energy Board Wells: Federal NEBW

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-2014

Oil and Gas Wells: Private OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Jan 2017

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Oct 2016

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Mar 2017

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: 1988-Oct 2016

TSSA Pipeline Incidents: Provincial PINC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Mar 2017

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2013

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Dec 2016

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999 - Oct 2016

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Dec 2016

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-2014

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Jan 2015

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: 1970-Mar 2017

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Jun 30, 2016

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

ENVIRONMENTAL RISK INFORMATION SERVICES

DATABASE REPORT

Project Property:	*Station 3* *Na* *Dubreuilville ON*
Project No:	
Report Type:	*Quote - Custom-Build Your Own Report*
Order No:	*20170426153*
Requested by:	*Golder Associates Ltd.*
Date Completed:	*May 8, 2017*

Environmental Risk Information Services
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:		*Station 3* *Na Dubreuilville ON*
Project No:		
Coordinates:		
	Latitude:	*48.3603*
	Longitude:	*-84.52969*
	UTM Northing:	*5,359,296.16*
	UTM Easting:	*682,980.68*
	UTM Zone:	*UTM Zone 16U*
Elevation:		*1,152 FT* *351.14 M*

Order Information:

Order No:	*20170426153*
Date Requested:	*April 26, 2017*
Requested by:	*Golder Associates Ltd.*
Report Type:	*Quote - Custom-Build Your Own Report*

Historical/Products:

Aerial Photographs	*National Collection - Digital (PDF)*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Specific Plans*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Within 0.25 km	Total
AAGR	*Abandoned Aggregate Inventory*	Y	0	0	0
AGR	*Aggregate Inventory*	Y	0	0	0
AMIS	*Abandoned Mine Information System*	Y	0	0	0
ANDR	*Anderson's Waste Disposal Sites*	Y	0	0	0
AUWR	*Automobile Wrecking & Supplies*	Y	0	0	0
BORE	*Borehole*	Y	0	0	0
CA	*Certificates of Approval*	Y	0	0	0
CFOT	*Commercial Fuel Oil Tanks*	Y	0	0	0
CHEM	*Chemical Register*	Y	0	0	0
CNG	*Compressed Natural Gas Stations*	Y	0	0	0
COAL	*Inventory of Coal Gasification Plants and Coal Tar Sites*	Y	0	0	0
CONV	*Compliance and Convictions*	Y	0	0	0
CPU	*Certificates of Property Use*	Y	0	0	0
DRL	*Drill Hole Database*	Y	0	0	0
EASR	*Environmental Activity and Sector Registry*	Y	0	0	0
EBR	*Environmental Registry*	Y	0	0	0
ECA	*Environmental Compliance Approval*	Y	0	0	0
EEM	*Environmental Effects Monitoring*	Y	0	0	0
EHS	*ERIS Historical Searches*	Y	0	0	0
EIIS	*Environmental Issues Inventory System*	Y	0	0	0
EMHE	*Emergency Management Historical Event*	Y	0	0	0
EXP	*List of TSSA Expired Facilities*	Y	0	0	0
FCON	*Federal Convictions*	Y	0	0	0
FCS	*Contaminated Sites on Federal Land*	Y	0	0	0
FOFT	*Fisheries & Oceans Fuel Tanks*	Y	0	0	0
FST	*Fuel Storage Tank*	Y	0	0	0
FSTH	*Fuel Storage Tank - Historic*	Y	0	0	0
GEN	*Ontario Regulation 347 Waste Generators Summary*	Y	0	0	0
GHG	*Greenhouse Gas Emissions from Large Facilities*	Y	0	0	0
HINC	*TSSA Historic Incidents*	Y	0	0	0
IAFT	*Indian & Northern Affairs Fuel Tanks*	Y	0	0	0
INC	*TSSA Incidents*	Y	0	0	0
LIMO	*Landfill Inventory Management Ontario*	Y	0	0	0
MINE	*Canadian Mine Locations*	Y	0	0	0
MNR	*Mineral Occurrences*	Y	0	0	0
NATE	*National Analysis of Trends in Emergencies System (NATES)*	Y	0	0	0

Database	Name	Searched	Project Property	Within 0.25 km	Total
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBW	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPRI	National Pollutant Release Inventory	Y	0	0	0
OGW	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	0	0
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	0	0
PINC	TSSA Pipeline Incidents	Y	0	0	0
PRT	Private and Retail Fuel Storage Tanks	Y	0	0	0
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	0	0
SCT	Scott's Manufacturing Directory	Y	0	0	0
SPL	Ontario Spills	Y	0	0	0
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	TSSA Variances for Abandonment of Underground Storage Tanks	Y	0	0	0
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
WWIS	Water Well Information System	Y	0	0	0
	Total:	0	0	0	

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

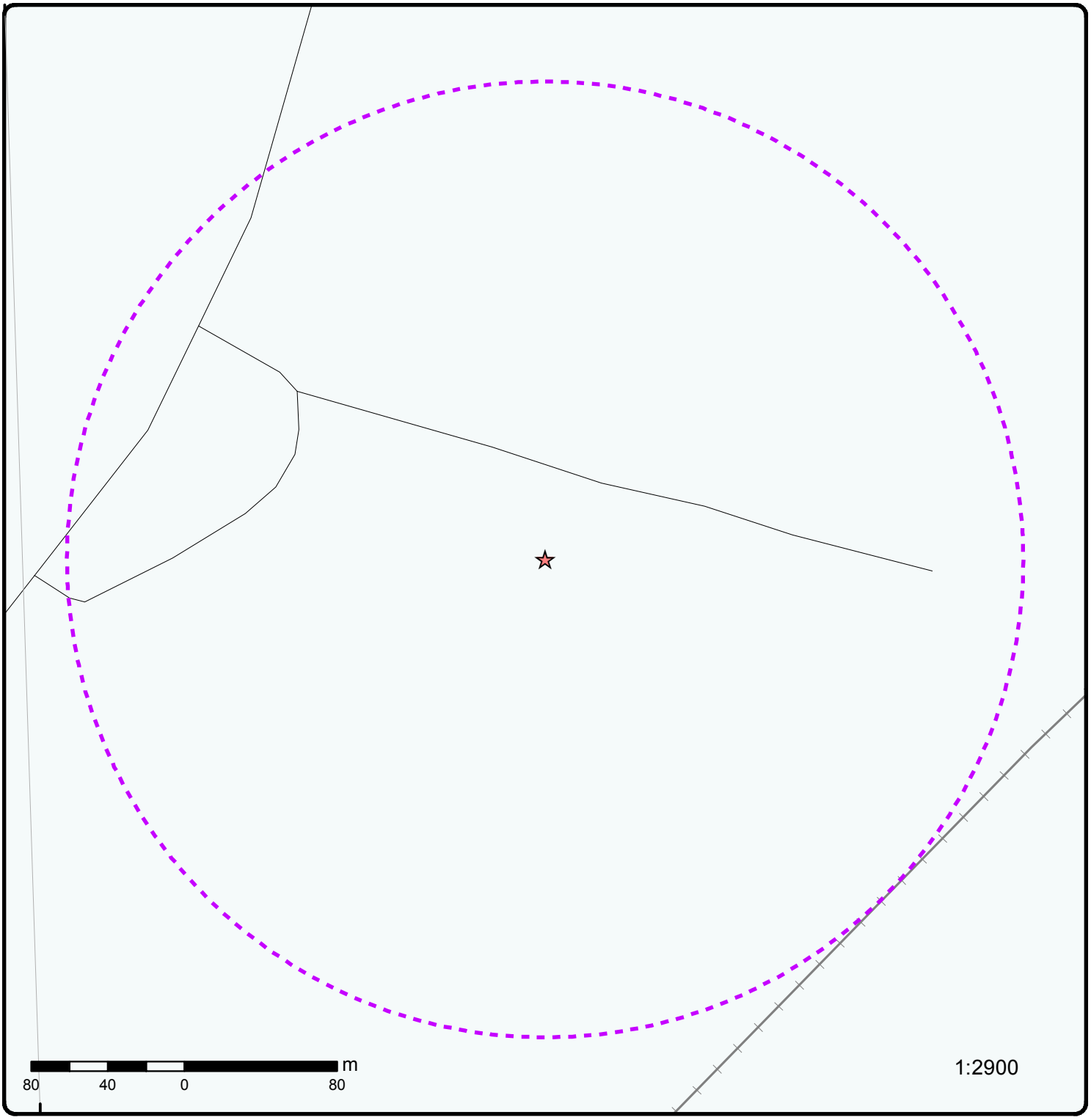
Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number

No records found in the selected databases for the surrounding properties.

Executive Summary: Summary By Data Source

No records found in the selected databases for the project property or surrounding properties.

84°32'W



Map : 0.25 Kilometer Radius

Order No: 20170426153
Address: Na, Dubreuilville, ON

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Expressway
- Principal Highway
- Secondary Highway
- Major Road
- Local road
- Trail
- Proposed Road
- Ferry Route/Ice Road
- Industrial and Resource - Regions
- Main Line
- Sidetrack
- Transit Line
- Abandoned Line
- National Park
- Provincial or Territorial Park
- Other Park
- Golf Course or Driving Range
- Park or Sports Field
- Other Recreation Area

Source: © 2015 DMTI Spatial Inc.

84°31'30"W

48°21'N

48°21'N

Aerial

Order No: 20170426153

Address: Na, Dubreuilville, ON

Source: ESRI World Imagery

ENVIRONMENTAL RISK INFORMATION SERVICES

Topographic Map

Address: Na, Dubreuilville, ON

Source: ESRI World Topographic Map

Order No: 20170426153

ERIS ENVIRONMENTAL RISK INFORMATION SERVICES

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elevation (m)	Site	DB

No records found in the selected databases for the project property or surrounding properties.

Unplottable Summary

Total: 13 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CONV	ALGOMA CENTRAL RAILWAY INC.		ON	
SPL	ALGOMA CENTRAL RAILWAY	HOBON LAKE MARINE TANKER	DUPREUILVILLE TOWNSHIP ON	
SPL	ALGOMA CENTRAL RAILWAY	ACHIGAN CREEK MILE 405 NORTH OF S.S. MARIE TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	AT ACR LINE N/B, 23 MILES NORTH OF SSM TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	ALGOMA CENTRAL RAILWAY, WAWA YARD AT THE OLD WAWA FREIGHT SHED. TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	MONTREAL FALLS, ACR MILE MARKER 92 TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	AGAWA CANYON ON ACR R.O.W. MILE 111 TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	MILE 105.5 LA BONTE TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	MILE 38 OF ALGOMA CENTRAL RR NEAR SEARCHMONT TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	FRATER STN.,MILE 102 MARINE TANKER	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	MILE 102 ON THE RAIL LINE TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	AT THE MONTREAL FALLS TRAIN STATION, A.C.R. TRACK MI. #92 TRAIN	ALGOMA DISTRICT ON	
SPL	ALGOMA CENTRAL RAILWAY	AT ETON, RAIL MI. 120 (BULLOCK TWP) TRAIN	ALGOMA DISTRICT ON	

Unplottable Report

Site: ***ALGOMA CENTRAL RAILWAY INC.***
ON

Database: ***CONV***

File No.:
Publication Title:
Publication City:
Url:
Crown Brief No.: 00-0151-0251
Ministry District: SAULT STE. MARIE
Region: NORTHERN REGION
Description: TRANSFER WASTE (SULFURIC ACID/HYDROCHLORIC ACID SOLUTION) WITHOUT

--Details--
Publication Date:
Count: 1
Act: EPA
Regulation: 347
Section: 18(5)
Act/Regulation/Section: EPA-347-18(5)
Date Charged: 12/6/00
Charge Disposition: SUSPENDED SENTENCE
Fine: $250.00

Publication Date:
Count: 1
Act: EPA
Regulation: 347
Section: 18(5)
Act/Regulation/Section: EPA-347-18(5)
Date Charged: 12/6/00
Charge Disposition: SUSPENDED SENTENCE
Fine: $250.00

Publication Date:
Count: 1
Act: EPA
Regulation: 347
Section: 18(5)
Act/Regulation/Section: EPA-347-18(5)
Date Charged: 12/6/00
Charge Disposition: SUSPENDED SENTENCE
Fine: $250.00

Site: ***ALGOMA CENTRAL RAILWAY***
HOBON LAKE MARINE TANKER DUPREUILVILLE TOWNSHIP ON

Database: ***SPL***

Ref No: 55516
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: UNKNOWN
Incident Dt: 8/12/1991
Incident Reason: UNKNOWN
Incident Summary: ALGOMA CENTRAL R.R.-9000 L. DIESEL FUEL TO GRND & HARBON LAKE,TANK LEAK
MOE Reported Dt: 8/12/1991
Environmental Impact: POSSIBLE
Nature of Impact: Water course or lake
Receiving Medium: LAND / WATER

SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80619

Site: ***ALGOMA CENTRAL RAILWAY***
ACHIGAN CREEK MILE 405 NORTH OF S.S. MARIE TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 98632
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: DERAILMENT
Incident Dt: 4/13/1994
Incident Reason: EQUIPMENT FAILURE
Incident Summary: ALGOMA C.R.- TRAIN DERAI-LEMENT,550 TONNES SINTER TO GROUND & CREEK.
MOE Reported Dt: 4/14/1994
Environmental Impact: CONFIRMED
Nature of Impact: Water course or lake
Receiving Medium: LAND / WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
AT ACR LINE N/B, 23 MILES NORTH OF SSM TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 151795
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: DERAILMENT
Incident Dt: 1/24/1998
Incident Reason: UNKNOWN
Incident Summary: ALGOMA RAILWAY: UNK AMT DIESEL TO GROUND FROM DE-RAILED LOCOMOTIVE
MOE Reported Dt: 1/24/1998
Environmental Impact: POSSIBLE
Nature of Impact: Multi Media Pollution
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
ALGOMA CENTRAL RAILWAY, WAWA YARD AT THE OLD WAWA FREIGHT SHED. TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 145485
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: DERAILMENT
Incident Dt: 8/21/1997
Incident Reason: OTHER
Incident Summary: ALGOMA CENTRAL RAILWAY- LOCOMOTIVE FUEL TANK PUNCTURE, 400-500 L SPILL
MOE Reported Dt: 8/21/1997
Environmental Impact: CONFIRMED
Nature of Impact: Soil contamination
Receiving Medium: LAND
SAC Action Class:

Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
MONTREAL FALLS, ACR MILE MARKER 92 TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 141330
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Dt: 5/29/1997
Incident Reason: UNKNOWN
Incident Summary: ALGOMA RAILWAY - 900 L DIESEL TO GROUND.NO WATERWAYS EFFECTED, CONTAINED.
MOE Reported Dt: 5/29/1997
Environmental Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
AGAWA CANYON ON ACR R.O.W. MILE 111 TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 91206
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: DERAILMENT
Incident Dt: 9/14/1993
Incident Reason: SUBSIDENCE
Incident Summary: ALGOMA CENTRAL RAILWAY- 41 M3 DIESEL FUEL LOST TORIVER,900 MT ORE ON BANK.
MOE Reported Dt: 9/14/1993
Environmental Impact: CONFIRMED
Nature of Impact: Multi Media Pollution
Receiving Medium: LAND / WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
MILE 105.5 LA BONTE TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 73322
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: OTHER CONTAINER LEAK
Incident Dt: 7/10/1992
Incident Reason: EARTHQUAKE/SLIDE
Incident Summary: ALGOMA CENTRAL RAILWAY- 450L FUEL SPILL FROM TANKALONG RAILWAY; ROCKSLIDE.
MOE Reported Dt: 7/10/1992
Environmental Impact: CONFIRMED
Nature of Impact: Soil contamination
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:

Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
MILE 38 OF ALGOMA CENTRAL RR NEAR SEARCHMONT TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 33609
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: DERAILMENT
Incident Dt: 4/24/1990
Incident Reason: OTHER
Incident Summary: ALGOMA CENTRAL RAILROAD -25000+ L DIESEL FUEL TO CREEK (DERAILMENT).
MOE Reported Dt: 4/24/1990
Environmental Impact: CONFIRMED
Nature of Impact: Water course or lake
Receiving Medium: WATER
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
FRATER STN.,MILE 102 MARINE TANKER ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 1783
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: VALVE/FITTING LEAK OR FAILURE
Incident Dt: //
Incident Reason: EQUIPMENT FAILURE
Incident Summary: ALGOMA RAILWAY -1350 LITRES OF FURNACE OIL TO GROUND.
MOE Reported Dt: 3/29/1988
Environmental Impact:
Nature of Impact:
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
MILE 102 ON THE RAIL LINE TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No: 115525
Contaminant Code:
Contaminant Name:
Contaminant Quantity:
Incident Cause: PIPE/HOSE LEAK
Incident Dt: 7/10/1995
Incident Reason: UNKNOWN
Incident Summary: ALGOMA CENTRAL: 4500L DIESEL TO GROUND. CONTAI-NED. CLEAN-UP ONGOING.
MOE Reported Dt: 7/10/1995
Environmental Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND
SAC Action Class:
Sector Source Type:
Receiving Environment:
Incident Event:
Site Municipality: 80000

Site: ***ALGOMA CENTRAL RAILWAY***
AT THE MONTREAL FALLS TRAIN STATION, A.C.R. TRACK MI. #92 TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No:	106899
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	VALVE/FITTING LEAK OR FAILURE
Incident Dt:	10/31/1994
Incident Reason:	EQUIPMENT FAILURE
Incident Summary:	ALGOMA CENTRAL RAILWAY- 70 L OF DIESEL FUEL TO GROUND FROM STORAGE TANK.
MOE Reported Dt:	11/1/1994
Environmental Impact:	POSSIBLE
Nature of Impact:	Soil Contamination
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Receiving Environment:	
Incident Event:	
Site Municipality:	80000

Site: ***ALGOMA CENTRAL RAILWAY***
AT ETON, RAIL MI. 120 (BULLOCK TWP) TRAIN ALGOMA DISTRICT ON

Database: ***SPL***

Ref No:	100898
Contaminant Code:	
Contaminant Name:	
Contaminant Quantity:	
Incident Cause:	OTHER CONTAINER LEAK
Incident Dt:	6/7/1994
Incident Reason:	EQUIPMENT FAILURE
Incident Summary:	ALGOMA C.R.- 225 L OF DIESEL FUEL SPILT INSIDE CAR, SOME TO GROUND.
MOE Reported Dt:	6/7/1994
Environmental Impact:	CONFIRMED
Nature of Impact:	Soil contamination
Receiving Medium:	LAND
SAC Action Class:	
Sector Source Type:	
Receiving Environment:	
Incident Event:	
Site Municipality:	80000

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2016

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Nov 2016

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999 - Oct 2016

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2014

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Commercial Fuel Oil Tanks: Provincial CFOT

Since May 2002, Ontario developed a new act where it became mandatory for fuel oil tanks to be registered with Technical Standards & Safety Authority (TSSA). This data would include all commercial underground fuel oil tanks in Ontario with fields such as location, registration number, tank material, age of tank and tank size.

Government Publication Date: Feb 28, 2017

Chemical Register: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999 - Oct 2016

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 31, 2012

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Mar 2017

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Mar 2017

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886-Aug 2015

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Mar 2017

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Mar 2017

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Mar 2017

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Aug 2016

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

The Emergency Management Historical Event data class will store the locations of historical occurrences of emergency events. Events captured will include those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance.

Government Publication Date: May 31, 2014

List of TSSA Expired Facilities: Provincial EXP

List of facilities with removed tanks which were once registered with the Fuels Safety Program of the Technical Standards and Safety Authority (TSSA). Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc. Tanks which have been removed automatically fall under the expired facilities inventory held by TSSA.

Government Publication Date: Feb 28, 2017

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government.

Government Publication Date: June 2000-Aug 2016

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sept 2003

Fuel Storage Tank: Provincial FST

The Technical Standards & Safety Authority (TSSA), under the Technical Standards & Safety Act of 2000 maintains a database of registered private and retail fuel storage tanks in Ontario with fields such as location, tank status, license date, tank type, tank capacity, fuel type, installation year and facility type.

Government Publication Date: Feb 28, 2017

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Sep 2016

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2015

TSSA Historic Incidents: Provincial HINC

This database will cover all incidences recorded by TSSA with their older system, before they moved to their new management system. TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. The TSSA works to protect the public, the environment and property from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from pipelines, diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

TSSA Incidents: Provincial INC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Includes incidents from fuel-related hazards such as spills, fires and explosions. This database will include spills and leaks from diesel, fuel oil, gasoline, natural gas, propane and hydrogen recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the ministry compiles new and updated information. The inventory will include small and large landfills. Additionally, each year the ministry will request operators of the larger landfills complete a landfill data collection form that will be used to update LIMO and will include the following information from the previous operating year. This will include additional information such as estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills will include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Dec 31, 2013

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2016

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2014

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Aug 2010

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008 - Dec 2016

National Energy Board Wells: Federal NEBW

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-2014

Oil and Gas Wells: Private OGW

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Jan 2017

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Oct 2016

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Mar 2017

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: 1988-Oct 2016

TSSA Pipeline Incidents: Provincial PINC

TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. This database will include spills, strike and leaks from recorded by the TSSA.

Government Publication Date: Feb 28, 2017

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Mar 2017

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2013

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.
RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Dec 2016

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999 - Oct 2016

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Dec 2016

Wastewater Discharger Registration Database: Provincial SRDS

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-2014

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970-Jan 2015

TSSA Variances for Abandonment of Underground Storage Tanks: Provincial VAR

List of variances granted for abandoned tanks. Under the Technical Standards and Safety Authority (TSSA) Liquid Fuels Handling Code and Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Government Publication Date: Feb 28, 2017

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: 1970-Mar 2017

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Jun 30, 2016

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

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Appendix B

Costello Utility Consultants - Electrical Distribution Status Report and Technical Review for the Township of Dubreuilville

Electrical Distribution Status Report and Technical Review for the Township of Dubreuilville

Prepared for:

Algoma Power Inc.

Authored by Costello Utility Consultants

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Utility Consultants

June 5, 2017

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Utility Consultants

Table of Contents

1. Executive Summary

The local distribution company (LDC) in Dubreuilville, Ontario was built by the Dubreuil Brothers Lumber Company in the early 1960s. Power is supplied by Algoma Power Inc. (API). Dubreuil Forest Products Ltd. holds the Electricity Distribution Licence (#ED-2003-0092), issued by the Ontario Energy Board (OEB), and operates the LDC in accordance with the Electricity Act.

Algoma Power Inc. (API) received an Order from the OEB to take over the operations of the distribution system for the Township of Dubreuilville. This process requires that API provide the OEB with a written status report on the conditions of the distribution system assets and capacities.

During the period of May 8-11, 2017, Ron LaPier (Costello VP Engineering) and Ken Walsh (Senior Associate) were on site in Dubreuilville to make visual inspections of the distribution system and station assets. Data and photos were collected, and a primary system schematic was created in AutoCad and provided to Algoma Power immediately after to the trip.

We would also like to note the hospitality and assistance of Mr. Luc Belanger, who has been the single point of contact in town for the operations of the distribution system for the past number of years. Luc was very helpful and is well regarded in town for his customer service and his timely response to the operational needs of the system.

This report contains information on the three electrical substations in the Dubreuilville distribution system, as well as the underground and overhead distribution assets, and on the secondary services associated with the system. The metering systems were not part of our scope to review. We understand that metering systems are being reviewed by API directly. Herein are the observations and recommendations made by Costello Utility Consultants (henceforth, Costello) with regards to the asset conditions. We have also offered observations and recommendations related to operational and maintenance aspects of the system, and although this was not explicitly part of the scope, we offer them for API consideration only. All of the above should provide the information that API needs to be aware of before taking over the operation of this system. The primary focus of the report is on safety concerns and hazards as well as system reliability risks.

Within this report, we recommend:

- The decommissioning of Substation #1 and tending to the environmental clean-up required to mitigate the oil leakage that has occurred. Substation #1's load should be converted as soon as possible and re-fed from Substation #2;
- That control padlocks be installed on all transformer tap changer switches;
- The immediate replacement and clean-up around pad mounted transformer TXP#3 and the development of plans to address the proximity of the unit to window openings in the building;
- That immediate plans be undertaken to provide a spare single-phase transformer unit for Substation #2;
- The fences at Substations #2 and #3 be upgraded to meet current industry best practices;
- It is recommended that the crushed stone around the outside of the station fence be

replaced out to 1.2m in order to reduce vegetation and reduce the public step and touch potentials.

- That the broken insulators found at Substations #2 and #3 during the station inspections be repaired;
- That Substation #2 should be considered for upgrades or replacement within the next three years. This could be accomplished through the construction of a new station adjacent to Substation #2, which would also allow for further improvements in reliability and operational configurations of the supply points for the overhead feeders supplying the town;
- That plans be made to address the proximity of the propane filling station to the overhead 4160V feeders located adjacent to the RestoBar;
- The replacement of the wood cross arms and porcelain insulators on the 44kV circuit crossing through the Lumber Mill property, supplying Substation #3;
- That API should plan to perform a visual inspection of all wooden cross arms to determine the extent of damage due to rot caused by a build-up of moss on the top side of the arms;
- That soil resistivity and ground grid tests be performed to assess the state of the buried grounding systems at Substation #2 and Substation #3;
- API should perform pole testing to determine the residual strength left in all poles in the system.
- API plan to locate and map all primary underground cables in the system. Cable testing to determine the general condition is also recommended
- Mapping of all secondary underground conductors and meter inspections are recommended as the meters are read regularly and as time allows.

From an operational perspective, we recommend that Algoma Power Inc. consider the following:

- Installing an automated 44kV load break switch at the boundary between the town and the Lumber Mill Property;
- The preparation of a protection study to assess whether the current fuses are appropriately sized, and the check protection coordination throughout the distribution system;
- The review of operational constraints and potential safety control measures for Substation #2 related to the limits of approach and switching procedures.

This report contains more detailed assessment of these issues and the conditions of the distribution and substation assets, as per our staff’s findings.

2. Distribution System Assets

2.1 Transformers

2.1.1 Pad Mounted Transformers

The general state of the transformers in the Dubreuilville distribution system is good. Of the fourteen (14) pad mounted transformers, only one is posing a concern. This one pad mounted transformer, labelled TXP#3 is badly leaking oil and should be replaced immediately to avoid safety, reliability, and environmental hazards. Please refer to Figures 1-5 below. This transformer is in a residential area. We received verbal confirmation from Luc Belanger that all transformers have been tested for PCBs and have been deemed free of PCBs. However, this particular transformer site requires some environmental clean-up to deal with the leaking oil. Further, this transformer may be located too close to a building and its windows. Given the vintage and type of transformer, it may not have the tank pressure relief and current limiting fuses required to guarantee it won't explode for an internal failure.

Costello's recommendation is that this transformer should be replaced and the surrounding area be cleaned up. As part of the replacement, the proximity to the existing building openings should be reviewed to determine any required mitigation measures related to the proximity to the building.

Figure 1 – Pad mounted TXP#3, first angle

Figure 2 – Pad mounted TXP#3, second angle

Figure 3 – Pad mounted TXP#3, third angle

Figure 4 – Pad mounted TXP#3, fourth angle

Figure 5 – Pad mounted TXP#3, fifth angle

2.1.2 Pole Mounted Transformers

Our site visit identified 63 pole mounted transformers in the system. In general, these units appear to be in adequate condition. No leaking units were noted during the inspections, however, the PCB testing records should be reviewed to confirm the verbal confirmation received from Mr. Belanger.

No effort was made during the site visit to confirm the secondary connections between the transformers and the customer meters. This work should be considered as part of further operational efforts and will require the skills of a locator to properly map the secondary services. Transformer loading versus unit capacity was not reviewed as meter data was not provided and the secondary mapping, as mentioned above, is yet to be completed.

2.2 Poles and Cross Arms

The site visit mapped and accounted for 172 poles supporting primary circuits.

No “secondary only” or any “customer owned” poles were mapped or inventoried. Therefore, the total number of poles in the system is not known for sure, but an estimation of the total amount might approach 200. Based on a visual inspection only, the majority of the poles appear to be in adequate condition.

The method with which some of the pole guys have been installed is antiquated, (a bolt installed through the pole at an angle with no guy hook attachment), and is not up to current industry standards. Please refer to Figure 6 below. Although this poses no immediate concern, it has been noted for the records.

Figure 6 – Pole guys

The majority of the “in town” poles have wood cross arms. Many of these cross arms have moss covering the top side of the arm. From the ground it is impossible to tell if the cross arms are rotting and would therefore need to be replaced. A closer aerial inspection of the assets is recommended, but it can be safely assumed that a portion of the existing wood cross arms are compromised and due for replacement.

All of the poles viewed within the Lumber Mill property also use wood cross arms and porcelain insulators. The cross arms also appear to have the same moss issue as identified above. In addition, many of the cross arms appear to be stressed and askew. Please refer to Figures 7 and 8 below.

Figure 7 – Cross arm, first example

Figure 8 – Cross arm, second example

Access to the mill property is currently controlled by a locked gate, and depending on the agreement for permanent access in case of emergency, API should consider some upgrades to the circuit through the mill property.

It is strongly recommended that throughout the mill property, and all the way to Substation #3, the cross arms be changed to steel and the insulators be changed to the current standard polymer type. These upgrades will serve to minimize reliability impacts of component failures and access to the mill property assets.

One issue was found during the inspections related to the proximity of overhead electrical plant to a propane filling station near the restaurant. See Figure 9 below.

Figure 9 – Propane Filling Station

Although a cursory review of the clearance requirements between the electrical and propane components yields no obvious transgressions, the proximity of expulsion-type fuses to the propane cylinder is cause for a more detailed review.

2.3 Underground Cables and Risers

A visual inspection on the cable risers did not show any concerns other than the framing is generally very close. All of the cable we saw was teck armoured and assumed to be direct buried, and there are no stress cones or sheds on the cable terminations.

The routing for all underground cables was not known and more effort is recommended to locate and map these cables for future reference.

2.4 Secondary Conductors and Meters

While our original proposal included checking the meters and secondary conductors, our focus was to check the status of the most important assets which included the primary distribution, substations, poles and hardware, and pad mount equipment. During the

assessment, it was necessary to spend more time on the poles and stations reviews as there were more poles than expected and more time required at the stations, and we felt it was important from a safety and operations point of view to have an updated primary map as the one provided by Algoma Power was not complete.

We did not see any issues with the secondary conductors that were observed while checking the primary overhead system and poles. The meters were previously identified as not being compliant with the requirements of smart metering, thus they will need to be replaced at some point in the near future. As well, we assume these meters are being manually read on a regular basis so any unsafe conditions should be noted by the person reading these meters. Therefore, checking the meters and secondary conductors became a lower priority and time did not permit us to have a close inspection of these assets. It would be more efficient to assess the condition of the secondary conductors while performing a secondary conductor mapping exercise.

It has been our experience that secondary conductors rarely pose a significant risk to asset management as most LDCs tend to use the ”run to failure” model for these assets and do not create plans for wholesale replacement of secondary services in capital plans. Secondary services are often upgraded or replaced as part of line rebuilds and voltage conversions, or when multiple failures have occurred in a single section.

3. Substations

3.1 Substation #1

Substation #1 is an outdoor station located near one of the main entrances to the lumber mill property, adjacent to a creek and a gas station. The substation wooden structure appears to have been rebuilt in 2000, although the transformers and switching equipment appear to be original (estimated 1964).

Although the station fence is intact, structurally sound, and appears to be properly grounded, the total height of the fence is only about 7’ (2.1m) to the top of the barbed wire. Current industry practices call for 8’ (2.4m) of fence fabric with three strands of barbed wire for a total height of 9’ (2.74m). In addition, the current barbed wire is turned into the station, rather than outward toward the public side of the fence. Please refer to Figure 10 below.

Figure 10 – Substation #1

Although it meets the minimum safety code requirements, the low station fence poses a risk to public safety and the security of the station equipment. Keeping the public, specifically children, out of the station is paramount. A taller fence also provides less opportunity for damage due to objects being thrown at the porcelain transformer bushings and insulators.

The station transformer (three single-phase units) were originally connected in a 2400V Delta configuration, however, a unit failure due to a lightning strike within the last few years forced the reconfiguration into a 2400V Open Delta. Please refer to Figure 11 below.

Figure 11 – Transformer at Substation #1

In addition to the failure of one single phase unit, all three transformers are leaking oil, and the concrete pad and ground around the units show signs of long-term leakage. The tap changer operators and the lower tank valve appear to be the main source of the oil leaks on all three units. Please refer to Figures 12 and 13 below.

Figure 12 – Transformer leakage at Substation #1, first example

Figure 13 – Transformer leakage at Substation #1, second example

Such leaks pose operations reliability concerns as well as safety and environmental concerns. Although the grade of the concrete foundation slopes away from the nearby water course, the direction of the general drainage is toward the adjacent creek.

The fence and equipment grounding appear to be adequate. The substation does have porcelain insulators, which are subject to breakage and maintenance issues. The limits of approach and working clearances also pose concerns as the 2400V wire bus is low to the ground.

Also, the tap changer controllers on all three transformers were found to be unlocked. Operation of the tap changer controllers while energized would result in sever equipment damage and personal injury to staff.

The 2400V load break device is currently three single-phase oil-filled switch units mounted on the wooden structure. (See Figure 14 below.) The manual operator for these units is mounted directly below the oil-filled unit, and although the switch operator appears to be properly grounded, the location of the operator relative to the devices above is less than optimal for general staff safety.

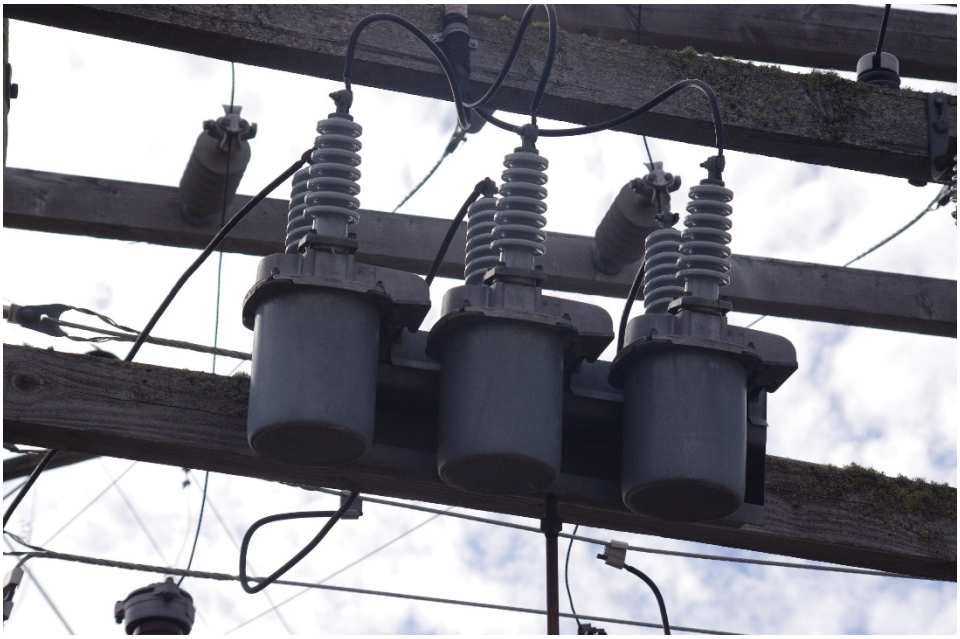


Figure 14 – Single-phase, oil-filled switch units

The feeder protection is provided by fused disconnects on the load side of the oil-immersed switch units. The size of the current fuses is not known.

The Substation Risk Assessment Form for Substation #1 can be found in Appendix A.

Costello's recommendations for this substation are that the current 2400V Open Delta loads be converted and re-supplied from Substation #2, and that Substation #1 be decommissioned. The safety and environmental concerns are such that the best course of action would be to remove it from service as soon as possible.

3.2 Substation #2

There are three single-phase transformers at this substation; two are vintage 1964, and one which was a spare unit, is vintage 1987. The spare is replacing the substation's third transformer, which was found to have high gas-in-oil levels.

All of the station insulators are porcelain, and one broken insulator was noted on the 4160V wire bus connections to one transformer.

The 4160V neutral conductor connecting the grounded Wye point is an insulated conductor, suspended approximately 8' (2.4m) above grade. (See Figure 15 below.)

Also, the tap changer controllers on all three transformers were found to be unlocked. Operation of the tap changer controllers while energized would result in sever equipment damage and personal injury to staff.

Figure 15 – Substation #2

The fence appears to be properly grounded in all respects, but shares the same low height issues as the fence at Substation #1. There are also some gaps at the bottom of the fence that could allow pests and wildlife to enter the enclosure. Current practice is to have the fence fabric extend 6” (150mm) below the stone to deter animals and children from crawling under the fences.

All three feeders are fuse protected and are equipped with a gang-operated load break switch mounted on the steel structure. All three of these feeder switches are key interlocked with the main incoming 44kV air break switch. Signage in the station warns that the fuses are to be operated only under de-energized conditions.

All three feeders coming out of this substation are via underground cables exiting the station, crossing the street, and are all directed onto the same wood riser pole. These three feeders supply all of the town’s electrical needs, with the exception of the 2400V Delta loads supplied by Substation #1. While this particular pole is not at a high risk of traffic collision, there is always the plausible risk of lightning, pole fire, or other environmental threats. Should this one pole fail, the majority of the town’s distribution system would be affected.

Costello’s recommendation is that the load on Substation #1 be re-fed from this substation, by extending an existing 4160V feeder from Substation #2. The capacity of Substation #2 is 5000kVA, and the current load, as per API metering information provided (see Appendix B) is approximately 2300kVA, so Substation #2 has the capacity to accommodate the existing Substation #1 loads.

Given the substantial age of the transformers at Substation #2, and the fact that the spare unit (itself manufactured in 1987) has been placed in service, it is suggested that some redundant capacity be considered for Substation #2 within the next three years.

Algoma Power should consider constructing a new 5000kVA substation, situated adjacent to

the current Substation #2, which would allow the construction of new feeders out to the current distribution circuits. This would provide a good level of redundancy to deal with an underground cable failure or a transformer failure. Once the new substation is in service, it is recommended that the current Substation #2 be rehabilitated with new (or newer) transformers and a better 4160V arrangement that will allow better single contingency failure response.

3.3 Substation #3

Substation #3 is in adequate condition, with very few concerns. This substation is located to the north of the town, and serves the Industrial Park through a 1000kVA transformer.

The fence around the substation has the same height issue as the other substations' fences. However, the fence itself is in good shape and appears to be properly grounded.

There is some vegetation growth within the substation yard that requires maintenance attention, as a potential tripping hazard. The vegetation around the 44kV line leading into the station has not been trimmed in several years. A broken 44kV insulator was also noted on the incoming pole adjacent to the station fence. See Figure 16 below.

Figure 16 – Broken insulator at Substation #3

The 4160V protection is provided through fused disconnects located at the first pole out of the station. The incoming 44kV load break switch is equipped with a key interlock, but is not interlocked with any device in the station.

4. Conclusions

4.1 Distribution System Asset Condition

4.1.1 Transformers

4.1.1.1 Pad mounted Transformers

With the exception of pad mounted transformer TXP#3, all of the existing transformers appear to be in acceptable condition with no obvious leaks or physical damage.

Pad mounted unit TXP#3 has a serious leak and needs to be dealt with immediately.

The oil leakage into the soils around the unit require cleanup and the proximity of the unit to the windows in the building should be reviewed and mitigated either through replacement with a unit that has a pressure relief valve and current limiting fuses, or through the installation of a blast wall between the unit and the windows.

4.1.1.2 Pole mounted Transformers

All of the pole mounted transformers appear to be in acceptable condition, with no leaking units spotted during the inspection.

4.1.2 Poles/Conductors

The inspection viewed all poles supporting primary conductor. All poles viewed “in town” appear to be in good condition. It is recommended that further effort be made to complete a more detailed inventory of all primary and secondary poles and that a pole testing program be applied to the asset to further assess the condition of poles based on the loads they are required to support.

All wood cross arms should be further inspected from an aerial view point to determine if the moss that can be seen from the ground has resulted in rotting of the cross arm, and to what extent any damage has progressed.

It is recommended that all wood cross arms and porcelain insulators inside the Lumber Mill property be changed to steel arms and epoxy insulators in order to provide the best possible reliability circuit to Substation #3.

The guy attachments on the poles, used extensively throughout the system, are not according to current construction standards. This is not an immediate concern, but should be changed as poles are replaced over time.

The situation found related to the proximity of the electrical and the propane filling station should be further reviewed to confirm if any immediate changes are required to meet all applicable codes.

4.1.3 Underground Primary Cables

The location of all underground primary cables should be mapped in conjunction with electrical locates.

4.1.4 Secondary Conductors and Meters

During the regular meter reading activities, staff should perform a visual check of the meter installation to identify any damage or abnormal situations. Mapping of all underground secondary conductors is recommended over time and as required.

4.2 Substation Asset Condition

4.2.1 Substation Fences

All three substation fences are low compared to current utility practices.

The gaps under the fence at Substation #2 should be eliminated by repairing the bottom tension wire and installing more crushed stone around the perimeter of the station.

The fence at Substation #2 and Substation #3 should be increased in height to meet current best practices and to mitigate any public safety concerns.

The broken insulators found within Substation #2 and immediately outside Substation #3 should be replaced in the near term.

4.2.2 Grounding Systems

All three station fences, structures, and switch operators appear properly grounded as per current standards. A physical inspection of the below-grade components was not completed as part of this scope of work.

Ground grid resistance testing for Substation #2 and Substation #3 is recommended to assess the condition of the buried counterpoise components. Soil resistivity tests at each substation and subsequent analysis to review the adequacy of the station ground counterpoise system is also recommended.

It is recommended that the crushed stone around the outside of the station fence be replaced out to 1.2m in order to reduce vegetation and reduce the public step and touch potentials.

4.2.3 Substation Transformers

The transformers at Substation #1 are leaking badly and should be removed from service as soon as the loads can be converted and fed from Substation #2.

The clean-up and removal of Substation #1 is recommended given the extent of the oil leaks, the slope of the ground toward the creek, the poor location of the oil-immersed switch operator, the low station fence, and the fact that the current station does not provide for adequate limits of approach and working clearances.

The transformers at Substation #2 are also long past the industry standard life expectancies for transformers. However, a review of the Gas-in-Oil test results (not completed as part of this scope) is recommended immediately to assess the condition of these units. Depending on the outcome of the test results, a spare single-phase transformer might be a worthwhile “stop gap” measure to manage the risk of a unit failure within the next 1-2 years.

4.2.4 Limits of Approach/Working Clearances

Substation #1 has significant concerns in this regard, but has been recommended for removal above.

Substation #3 does not have any concerns in this regard.

Substation #2 does have clearance issues with the low 4160V bus conductors and the extremely low 4160V neutral conductor. These concerns can be mitigated by the fact that only qualified staff are allowed into the station, but API should have a very close review to determine if it wishes to impose further limits of access in/around the station structure and

components. Temporary, non-conductive barriers and appropriate signage might be a suitable short-term control for staff safety. Further operational restrictions related to switching procedures and emergency activities may also be appropriate to ensure staff safety.

4.3 Operational Observation and Recommendation

4.3.1 Feeder Protection and Coordination

It is recommended that a protection study be conducted to determine if the current fuses are appropriately sized and to check protection coordination throughout the system.

4.3.2 44kV Feeder Faults Within the Mill Property

The 44kV supply to Substation #3 and the Industrial Park passes through the Lumber Mill property, over several conveyor structures, and through a sizeable length of tree lined right-of-way. If there were to be a component failure or tree contact inside the Mill property, response time and gaining access to the area may be considerable. This would leave the town out of power until API crews can respond, gain access to the work area, clear the problem, and reclose the 44kV circuit.

API might consider the installation of an automated 44kV load break switch at the boundary of the town/mill property. Along with SCADA-monitored fault indicators to indicate the location of a fault, the line through to the industrial park could be isolated remotely and power restored to the town sooner.

4.3.3 Long-term Plans for Substation #2

Given the recommendation to remove Substation #1 from service and to convert/connect the existing loads to Substation #2, the long-term viability of Substation #2 in its current condition is questionable.

API should consider the construction of a new 5000kVA substation situated adjacent to the current Substation #2. This would allow the construction of new feeders out of the current distribution circuits, which would provide an increased level of redundancy to deal with an underground cable failure, transformer failure, or a pole fire.

Once the new substation is placed in service, it is recommended that the current Substation #2 be rehabilitated with new (or newer) transformers and a better 4160V arrangement that will allow better single-contingency failure response.

The result would be a two transformer arrangement, each capable of supplying the electrical needs of the town into the future, and an improved ability to manage single contingency component failures such as underground cables or switching devices.

APPENDIX A: SUBSTATION INSPECTION FORMS

Costello Associates

Substation Risk Assessment Form

Station #1 Year Built 1964

Section 1: Public Safety – conditions that impact public safety at the station:

Area of Concern	Check		
	1	2	3
Perimeter Security			
Fence Grounding and Bonding			
Station Yard			
Station Building	Not Applicable		
Station Setting – Proximity			
Station Setting - Encroachments			
Overall public safety condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

Overall Public Safety Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Section 2: Worker Safety – conditions that impact worker safety at the station:

Area of Concern	Check		
	1	2	3
Grounding and Bonding			
Safe limits of approach			
Working clearances			
Switching access difficult			
Multiple sources of voltage	Not Applicable		
Porcelain			
Operational Issues			
Maintenance Issues			
Overall worker safety condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

Maintenance issues that can be quickly rectified may be eliminated from risk assessment.

Overall Worker Safety Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Inspected by: R. E. LaPier Date: May 9, 2017

Costello Associates

Substation Risk Assessment Form

Section 3: Risks of Major Equipment Failure

A. Condition of Equipment

Area of Concern	Check		
	1	2	3
Power Transformers			
High-side switchgear			
Distribution-side switchgear			
Protection and Control Equipment		Fuses	
Underground cables			
Structures			
Overall equipment condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

B. Factors that may impact the consequences of major equipment failure

Concern	Impact of Consequence		
	L	M	H
Station setting – proximity	More than 100m	Between 100m and 10m	10m or less
Station setting – watercourses	None	Storm sewers/drains	Open water
Lack of backup supply	<2 hours switching	Between 2 – 24h outage	No backup
Critical loads (hospitals etc)	None	With generators	No generators
Grounding and bonding	Today's code	Some deficiencies	Poor
Oil containment	Yes	Partial	None
Explosion barriers	Yes	Partial	None
Fire fighting capability	Hydrants	Storage Tanks	None
Presence of PCB's	None	Storage Only	In-service
Overall equipment condition	**L**	**M**	**H**

C. Based on the equipment condition and consequences, state the risk rating for a major equipment failure:

Overall Failure Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Section 4: Overall Substation Risk Assessment

Station Risk Assessment	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Comments:

- Station fence 6' + barb
- Station grade sunk some away from creek
- No oil containment
- Ground fence intact
- Structure rebuilt 2000
- No key interlock on 4kV oil switch to 44Kv switch, all porcelain insulators
- Fence barb turned inside
- Nearby @ creek – grade slopes away toward the water

Inspected by: R.E. LaPier Date: May 9, 2017

Costello Associates

Substation Risk Assessment Form

Station #2 Year Built 1964

Section 1: Public Safety – conditions that impact public safety at the station:

Area of Concern	Check		
	1	2	3
Perimeter Security			
Fence Grounding and Bonding			
Station Yard			
Station Building	Not Applicable		
Station Setting – Proximity			
Station Setting - Encroachments			
Overall public safety condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

Overall Public Safety Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Section 2: Worker Safety – conditions that impact worker safety at the station:

Area of Concern	Check		
	1	2	3
Grounding and Bonding			
Safe limits of approach			
Working clearances			
Switching access difficult			
Multiple sources of voltage			
Porcelain			
Operational Issues			
Maintenance Issues			
Overall worker safety condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

Maintenance issues that can be quickly rectified may be eliminated from risk assessment.

Overall Worker Safety Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Inspected by: R.E. LaPier Date: May 9, 2017

Costello Associates

Substation Risk Assessment Form

Section 3: Risks of Major Equipment Failure

A. Condition of Equipment

Area of Concern	Check		
	1	2	3
Power Transformers			
High-side switchgear			
Distribution-side switchgear			
Protection and Control Equipment			
Underground cables			
Structures			
Overall equipment condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

B. Factors that may impact the consequences of major equipment failure

Concern	Impact of Consequence		
	L	M	H
Station setting – proximity	More than 100m	Between 100m and 10m	10m or less
Station setting – watercourses	None	Storm sewers/drains	Open water
Lack of backup supply	<2 hours switching	Between 2 – 24h outage	No backup
Critical loads (hospitals etc)	None	With generators	No generators
Grounding and bonding	Today's code	Some deficiencies	Poor
Oil containment	Yes	Partial	None
Explosion barriers	Yes	Partial	None
Fire fighting capability	Hydrants	Storage Tanks	None
Presence of PCB's	None	Storage Only	In-service
Overall equipment condition	**L**	**M**	**H**

C. Based on the equipment condition and consequences, state the risk rating for a major equipment failure:

Overall Failure Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Section 4: Overall Substation Risk Assessment

Station Risk Assessment	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Comments:

- Fence bottom wire loose, spaces
- Broken 4160V insulation
- Spare Tx in use
- Stone outside fence needs replacing
- Neutral ground needs review
-

Inspected by: R.E. LaPier Date: May 9, 2017

Costello Associates

Substation Risk Assessment Form

Station #3 – Industrial Park Year Built 1991

Section 1: Public Safety – conditions that impact public safety at the station:

Area of Concern	Check		
	1	2	3
Perimeter Security			
Fence Grounding and Bonding			
Station Yard			
Station Building	Not Applicable		
Station Setting – Proximity			
Station Setting - Encroachments			
Overall public safety condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

Overall Public Safety Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Section 2: Worker Safety – conditions that impact worker safety at the station:

Area of Concern	Check		
	1	2	3
Grounding and Bonding			
Safe limits of approach			
Working clearances			
Switching access difficult			
Multiple sources of voltage	N/A		
Porcelain	N/A		
Operational Issues			
Maintenance Issues			
Overall worker safety condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

Maintenance issues that can be quickly rectified may be eliminated from risk assessment.

Overall Worker Safety Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Inspected by: R.E. LaPier Date: May 9, 2017

Costello Associates

Substation Risk Assessment Form

Section 3: Risks of Major Equipment Failure

A. Condition of Equipment

Area of Concern	Check		
	1	2	3
Power Transformers			
High-side switchgear			
Distribution-side switchgear	Not Applicable		
Protection and Control Equipment	Fuses		
Underground cables			
Structures			
Overall equipment condition			

1 = Acceptable

2 = Some deficiencies

3 = Needs attention soon

B. Factors that may impact the consequences of major equipment failure

Concern	Impact of Consequence		
	L	M	H
Station setting – proximity	More than 100m	Between 100m and 10m	10m or less
Station setting – watercourses	None	Storm sewers/drains	Open water
Lack of backup supply	<2 hours switching	Between 2 – 24h outage	No backup
Critical loads (hospitals etc)	None	With generators	No generators
Grounding and bonding	Today's code	Some deficiencies	Poor
Oil containment	Yes	Partial	None
Explosion barriers	Yes	Partial	None
Fire fighting capability	Hydrants	Storage Tanks	None
Presence of PCB's	None	Storage Only	In-service
Overall equipment condition	**L**	**M**	**H**

C. Based on the equipment condition and consequences, state the risk rating for a major equipment failure:

Overall Failure Risk Rating	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Section 4: Overall Substation Risk Assessment

Station Risk Assessment	Blue	Purple	Yellow	Orange	Red
	20+ Years	11-20 years	4-10 years	2-3 years	1 year

Comments:

- No control lock on LBS
- Some small vegetation in yard
- 44kV line last trimmed 8 Years ago

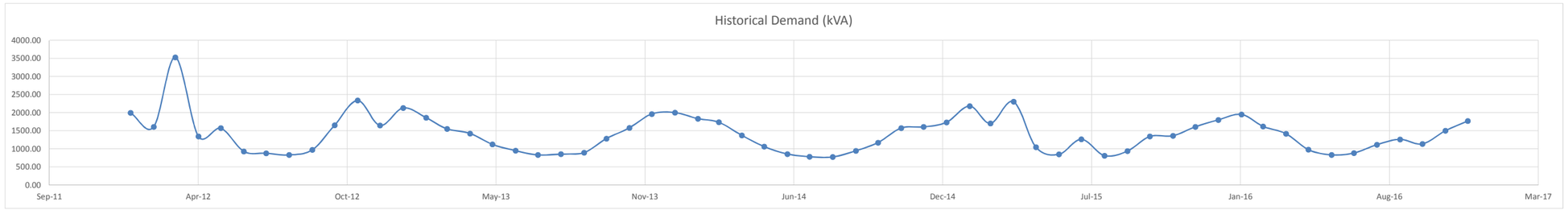
Inspected by: R.E. LaPier Date: May 9, 2017

APPENDIX B: API STATION LOADING INFORMATION

PEAKS Report

Dubreuil Lumber Inc.

	Peak Demand (kVA)
Jan-12	1996.80
Feb-12	1608.00
Mar-12	3534.40
Apr-12	1345.60
May-12	1574.40
Jun-12	931.20
Jul-12	878.40
Aug-12	833.60
Sep-12	972.80
Oct-12	1654.40
Nov-12	2339.20
Dec-12	1648.00
Jan-13	2132.80
Feb-13	1862.40
Mar-13	1555.20
Apr-13	1427.20
May-13	1124.80
Jun-13	952.00
Jul-13	832.00
Aug-13	857.60
Sep-13	896.00
Oct-13	1284.80
Nov-13	1582.40
Dec-13	1966.40
Jan-14	2004.80
Feb-14	1835.20
Mar-14	1737.60
Apr-14	1376.00
May-14	1064.00
Jun-14	859.20
Jul-14	785.60
Aug-14	776.00
Sep-14	947.20
Oct-14	1174.40
Nov-14	1576.00
Dec-14	1608.00
Jan-15	1736.00
Feb-15	2184.00
Mar-15	1704.00
Apr-15	2307.20
May-15	1049.60
Jun-15	849.60
Jul-15	1265.60
Aug-15	814.40
Sep-15	940.80
Oct-15	1344.00
Nov-15	1363.20
Dec-15	1609.60
Jan-16	1803.20
Feb-16	1953.60
Mar-16	1624.00
Apr-16	1419.20
May-16	979.20
Jun-16	835.20
Jul-16	884.80
Aug-16	1115.20
Sep-16	1264.00
Oct-16	1137.60
Nov-16	1502.40
Dec-16	1771.20
Jan-17	1678.40
Feb-17	1636.80
Mar-17	2467.20
Apr-17	
May-17	



Month/Year	2012	2013	2014	2015	2016
January	1,996.80	2,132.80	2,004.80	1,736.00	1,803.20
February	1,608.00	1,862.40	1,835.20	2,184.00	1,953.60
March	3,534.40	1,555.20	1,737.60	1,704.00	1,624.00
April	1,345.60	1,427.20	1,376.00	2,307.20	1,419.20
May	1,574.40	1,124.80	1,064.00	1,049.60	979.20
June	931.20	952.00	859.20	849.60	835.20
July	878.40	832.00	785.60	1,265.60	884.80
August	833.60	857.60	776.00	814.40	1,115.20
September	972.80	896.00	947.20	940.80	1,264.00
October	1,654.40	1,284.80	1,174.40	1,344.00	1,137.60
November	2,339.20	1,582.40	1,576.00	1,363.20	1,502.40
December	1,648.00	1,966.40	1,608.00	1,609.60	1,771.20

Annual Peak

2012	2013	2014	2015	2016
3,534.40	2,132.80	2,004.80	2,307.20	1,953.60

Month/Year	2013	2014	2015	2016	Average
January	6.81%	-6.00%	-13.41%	3.87%	-2.18%
February	15.82%	-1.46%	19.01%	-10.55%	5.70%
March	-56.00%	11.73%	-1.93%	-4.69%	-12.72%
April	6.06%	-3.59%	67.67%	-38.49%	7.92%
May	-28.56%	-5.41%	-1.35%	-6.71%	-10.51%
June	2.23%	-9.75%	-1.12%	-1.69%	-2.58%
July	-5.28%	-5.58%	61.10%	-30.09%	5.04%
August	2.88%	-9.51%	4.95%	36.94%	8.81%
September	-7.89%	5.71%	-0.68%	34.35%	7.87%
October	-22.34%	-8.59%	14.44%	-15.36%	-7.96%
November	-32.35%	-0.40%	-13.50%	10.21%	-9.01%
December	19.32%	-18.23%	0.10%	10.04%	2.81%
Average	-8.27%	-4.26%	11.27%	-1.01%	

Winter (Nov-Apr) Average:	-1.25%
Summer (May-Oct) Average:	0.11%

APPENDIX C: PHOTOS

Appendix C

Status of DLI Metering Infrastructure

Status of Metering Infrastructure

Overview

API has historically billed DLI as large industrial end-use customer, currently classified under API's R2 rate class, applicable to customers with demand greater than 50 kW. A single 44 kV supply point in the town of Dubreuilville is primary-metered and bills from API to DLI are based on this metering point. While the lumber mill was in operation, a large portion of the consumption recorded at the 44 kV supply point was used by DLI for the mill and other related facilities, most of which were unmetered. DLI historically sub-metered individual residences as well as any businesses not affiliated with DLI.

With the lumber mill having ceased operations in recent years, the primary disconnect switches associated with the supply to substations supplying the mill have all been opened. Until such time as adequate metering is installed on these supplies, API will ensure that these switches remain secured in the open position with locks under API's control. API also intends to address any other remaining unmetered loads in Dubreuilville in the short term. Based on current knowledge of the system, this would include requiring the installation of metering at the gas station, as well as accounting for energy consumed by street lights and other unmetered scattered load.

With accounts unrelated to DLI's business now making up the majority of the load, and short-term plans to address any remaining unmetered loads, API views the metering and billing relationship with DLI as transitioning from the historical treatment of DLI's system as an end-use industrial customer, to that of an embedded distributor.

Metering Assets

The vast majority of meters in Dubreuilville for both residential and commercial services are 100-200 Amp electromechanical watthour meters. A small number of electronic and/or demand meters are in place on newer and larger services.

All electromechanical meters appear to be past their Measurement Canada seal expiry dates. A sample of 100 nameplate photographs obtained during recent meter reads was examined to assess the vintage of in service electromechanical meters. The results are presented in the table below. All 40 of the meters identified as unknown (nameplate missing date, or date illegible) are also anticipated to be more than 40 years old. API was unable to obtain any evidence of these meters having been tested or re-sealed at any point in time.

Age Range	# of Meters
1-10	0
11-20	0
21-30	36
31-40	22
>40	2
Unknown	40

Meter Reading

All meters in Dubreuilville are read manually on a monthly basis. There is no remote communication system, nor are there any provisions for remote drive-by or walk-by reading. The process of manually reading all meters normally takes place over two business days, and to the extent possible is aligned with the end of each calendar month.

Metering Plan

As a priority item related to metering, API intends to address any remaining unmetered loads. This will include working with DLI, or a subsequent owner of the gas station, to install metering equipment on that facility. API will also work with the Town of Dubreuilville and other stakeholders to identify and account for any small scattered loads related to lighting or pole-mounted equipment.

In the next year, API also proposes to replace existing electromechanical meters with Sensus smart meters. The initial focus would be on replacing existing meters with Sensus meters, which would function as stand-alone electronic meters until such time as implementation of an AMI system is feasible, cost-effective, and approved by the OEB. The initial installation of Sensus meters would however bring the metering assets into Measurement Canada compliance, while at the same time readying the system for eventual AMI integration.

API anticipates that the cost to install these meters will be higher than the per meter installation costs experienced during its previous smart meter deployment for the following reasons:

- The previous deployment took advantage of large volumes to obtain low per-unit pricing from third-party contractors.
- The previous deployment involved changing meters while services remained energized. Due to the observed condition of and vintage of meters and meter bases in Dubreuilville, and the resulting probability of meter base failures and associated hazards, API would isolate all services in Dubreuilville to perform the exchanges. This would require the isolation and exchanges to be performed by a crew of two qualified Power Line Technicians.
- Due a relatively high anticipated frequency of meter base failures, and the remoteness of Dubreuilville, API anticipates requiring a contracted third-party electrician to accompany its crew while the exchanges are being performed.

In terms of implementing an AMI network, Dubreuilville is located beyond the reach of API's existing Sensus FlexNet infrastructure. API has contacted Sensus with regards to infrastructure options and costs to extend coverage to Dubreuilville. Once these options and costs are developed in more detail, API expects to consult further with OEB staff on this issue.

System Losses

Historical Losses

In the course of investigating DLI's metering infrastructure and past billing practices, API was able to develop an approximate analysis of system losses for the past 12 months. From May 1, 2016 to April 30, 2017, API delivered 7,135,308 kWh to DLI. DLI however billed its customers a total of only approximately 5,771,800 kWh, resulting in a system loss factor of approximately 1.236. API notes that this is significantly higher than the loss adjustment factor of 1.0807 historically applied by DLI on bills to its customers. DLI seems to have historically applied the loss adjustment factor shown on its bill from API, without any independent analysis of its own system losses.

Plan to Investigate and Address System Losses

In consideration of the historical system losses identified above, API considers that a strategy to investigate and address system losses is necessary in the short term. As described in the metering infrastructure review above, API's first step would be to meter or otherwise account for all identified unmetered load. API also expects that priority asset investment such as the retirement of Substation #1 and transfer of that load to Substation #2 will result in an immediate reduction in system losses.

A known issue with electromechanical meters is a tendency to under-register load as the meter ages, due to increasing levels of friction caused by aging and wear of bearings and other components. This issue is typically managed through re-verification and replacement of meters in accordance with Measurement Canada requirements, ensuring that meters are likely to be replaced prior to metering error exceeding 1%. Most of the meters currently installed in Dubreuilville are operating well beyond Measurement Canada seal expiry dates, and therefore may experience greater metering error. API's plan to replace these meters with electronic meters will result in all meter recording consumption accurately to within 1%.

API will continue to monitor system losses, both month-to-month, and year-over-year as the above measures are implemented to monitor expected reductions in overall system losses. To the extent that loss factors do not improve to reasonable levels, API may initiate more detailed field investigations such as primary current surveys or feeder/transformer metering to identify additional sources of unmetered load, theft of energy, of higher than expected technical losses.

Rate Structures

Historical Rate Structure

Similar to most Ontario LDC, DLI's historical rate structure with respect to delivery rates has consisted of both a monthly fixed component, and a variable charge based on consumption. The fixed monthly charge has been $23.76 per account. The variable charge includes two components. The first component is calculated monthly, based on the total delivery and DRC charges on API's invoice to DLI. The total of these charges was divided by the metered kWh on API's invoice to DLI to determine a variable monthly rate per kWh to be charged to DLI customers. The second component of the variable rate includes an administrative adder of $0.0150/kWh. These rates applied equally to residential and commercial customers of DLI.

In addition to the delivery charges above, DLI charged for electricity consumption based on the OEB's tiered-RPP rates, included regulatory charges based on OEB approved rates, and applied a DRC charge to its commercial customers. API notes that electricity charges based on tiered-RPP rates were historically shown in the Electricity line of the bill as DLI's system could not isolate the cost of power on losses for inclusion in the Delivery line as required by regulation. For similar reasons, DRC was applied to loss-adjusted kWh, however the rate was reduced from $0.0020 to $0.0018 to compensate for the applied loss factor, resulting in approximately the same total charge as if the correct rate had been applied to the metered kWh.

Beginning January 2017, DLI applied the 8% ORECA rebate, as required by legislation. DLI also provided OESP credits to approved accounts as required.

Future Rate Structure

API notes that the OEB order requires API to *"Collect revenue from customers within the service area of Dubreuil Lumber Inc. based on the charges that are currently applied by Dubreuil Lumber Inc."*

Based on this requirement, API proposes to continue charging the fixed and variable delivery rates described above, with a recalculation of the variable rate on a monthly basis. As describe herein, with the disconnection or metering of any unmetered loads associated with DLI's non-distribution facilities, API views its settlement relationship with DLI as transitioning from end-use customer to embedded distributor. As such, API will no longer apply a DRC charge to DLI, and the portion of the DLI variable rate calculated monthly from API's invoice to DLI will be based on the delivery charge only.

API will continue to apply a DRC charge to commercial customers in Dubreuilville. As a result of using API's CIS system, API proposes to apply the correct DRC rate of $0.0020 to the metered kWh value.

API will continue to apply tiered-RPP, regulatory charges, and OESP credits, based on OEB-approved rates and charges, as amended periodically. The 8% ORECA rebate will also continue to be applied. Going forward, tiered-RPP rates will be applied to the metered kWh, with the cost of power on losses calculated separately and moved to the Delivery line of the bill, as required by regulation. API would transition customers from tiered-RPP rates to Time of Use rates if and when an appropriate AMI system is fully functional, and required MDM/R integration and testing is completed.

Appendix D

API - Town of Dubreuilville Vegetation Management Review

Town of Dubreuilville - Vegetation Management Work Review

Background

Vegetation can interfere with safe, reliable and accessible operation of an electrical system. Trees and brush growing in to proximity of the electrical wires can increase the risk of injury to the public or utility workers. Vegetation can cause electrical service interruptions when branches contact or come in close proximity to power lines. Trees and branches falling on power lines are also a major cause of power interruption whether through natural tree health decline and or loading forces such as wind, snow, and ice. Vegetation can also impede the efforts of utility staff to locate, inspect, maintain and repair disruptions to the electrical service.

ROW Status/Assessment

Currently there are no immediate issues that require Vegetation Management (VM) work, however there is work that will need to be addressed within this year's active growing season. Additionally, there are some locations where trees are directly under the primary and secondary lines and should be addressed within 1-2 year growing season.

The 4.16kV and 2.4kV distribution systems are in good shape from a cycle perspective with some hot spot areas that need to be managed.

The 44kV sub-transmission circuit is considered to be off cycle as brush densities are heavy. The treed backline is in good condition and there are no immediate threats with hazard trees.

ROW Standards and Specifications

Based on similarities between Algoma Power Inc.'s current VM Program including tree species, growth rates and remoteness of system, it is recommended that the same or similar standards be applied. Below is API's current ROW clearance standards based on line type.

Line Type	*Width (m)
Express Feeder (44kV)	16.5
Express Feeder (12.5-34.5kV)	10.5
New Primary (2.4-25kV)	6
Existing Primary (2.4-25kV)	4.5
Secondary (<750V) – System	1.5
Secondary (<750V) – Taps	1
Underground – Various Voltage Classes	3

Substations

In electrical substations, vegetation is equivalent to moisture and moisture conducts electricity. The engineered grounding system that exists within electrical substations is predicated on the non-existence of vegetation. As a result the threshold for tolerance for vegetation within a substation is zero. In addition, the presence of weeds outside the substation impacts the maintenance of a weed-free environment within the substation. Best management practices for VM work in and around substations includes the immediate area outside the perimeter of the fence to ensure visibility of the fence, security of the area and reduces the chance of seed germination from weeds in immediate proximity to the fenced area.

May 17, 2017

Recommendations

Based on good utility practice and with respect to efficiency of following a cycled maintenance program, it is recommended that VM work be performed in 2017. Preventative maintenance will greatly reduce the potential for emergency or demand work to occur.

It is recommended that brush clearing, tree trimming and removal work activities be done to achieve standard clearances on ROW.

Spring and fall herbicide treatments to establish a vegetation-free area.

The cost estimate for all work recommendations to be completed is $200,000 - $250,000.

Appendix E

Customer Service Report

CUSTOMER SERVICE

Overview

DLI had one FT operations employee who historically managed all readings, meter exchanges, trouble calls, new and upgrade connections. The office staff member worked part-time to create manual meter reading sheets, then entered the manual hand-written readings, and finally produced bills on a monthly basis. Move requests and new accounts were collected on forms through the local gas bar owned by DLI. Account maintenance of customer accounts occurred prior to billing each month. If there were reading errors or discrepancies the items were changed, ad-hoc, and held in the memory or on a piece of paper for office staff to manage with the next billing cycle. It appears that meter disputes were managed by adding an additional meter to a service to ensure each read the same kWh each month. The systems of DLI for billing customers was very manual and there were discrepancies in the separate data base records that were not directly linked, and possibly due to the part-time hours of the office staff.

DLI did not bill every customer monthly, but billed only if there were 100kWh or more. This will change with API billing and DLI had informed its customers of this. DLI did not have Specific Service Charges approved, therefore, disconnections, occupancy changes, account histories, etc. were not billed.

All DLI employees are bi-lingual.

API included a letter insertion with the May DLI bill which provided an update on the transition process.

Current Status

During the first few months of the OEB Order, API has gained an understanding of the historical reading and billing practices/processes of DLI. API has accessed files including the customer database, meter readings, and the billings of DLI. The DLI billing system was requisitioned, developed, and owned solely by DLI. It was managed through a remote link to their head office in Thunder Bay. It was not housed in a stand-alone system on site at DLI. The fact that API could not just move the system to an API office, as well as the fact that it wasn't an advanced system; i.e. linking reads, managing rollovers, CIS database, rates, accounts receivable, work orders, customer contact record keeping, etc. API determined the best way to proceed was to create new records in API's CIS. This would ensure API could manage billing, accounts receivable, account maintenance, work orders, readings, troubles, etc. of the approximate 360 accounts in a well-managed system that meets regulatory requirements. This decision was referenced at page 7 of API's Notice of Transition, filed with the OEB on April 26, 2017.

Due to the DLI databases not readily matching records that were the same (customer name, customer number, and meter number) API needed to data cleanse the information merged into a single data base prior to inputting into API's CIS. Pictures were takes of all meters and linked with the readings from the last billing. These pictures show many rusty looking meter faces and dials, many 5 dial meters have a cardboard piece over the 1st dial and we have learned this cardboard was added when the service was 60Amp. Many meters are not sealed and API is unaware of any records with Industry Canada for meter testing. The data cleanse is now complete and customer names and billing addresses are in the process of being entered into API's CIS. Historically DLI managed meter rollovers by adding a number at the beginning of the read and then increasing it each time another rollover occurred.

During May, some move in/out requests continued to go through the DLI gas station and many have been emailed or called into API Customer Service. Meter changes have been completed by DLI's operation personnel in May. API is manually managing what we have been made aware of at this time.

API has two information sessions scheduled in Dubreuilville on June 8th, when we will present information to customers and allow for any questions from the townspeople. The presentation will include billing and payment options, and also public safety information including ESA, Ontario One Call, and High Voltage information. API is planning to bill all readings that occurred on May 30 and 31, 2017 the week of June 19th. This will be the first bill created in API's CIS system.

API has ensured that its 24/7 outage line has recorded bilingual messages as well as bilingual staff to support DLI customers. API has the availability to access bilingual CS representatives from another FO company, as required. All communication has been translated to French.

Future Plan

Going forward, DLI customers will be managed through a CIS system familiar to the Customer Service staff at API and API's Outage Call Centre will have DLI's customer information will ensure satisfactory service to DLI customers. API will then build historical outage records, customer concerns, bills, consumption, etc. Electronic work orders will ensure internal processes and the work occurs and all reporting requirements are met.

It is recommended that all meters be replaced and sealed (attention given first to the cardboard dial covered and the rusty faced meters). All unmetered loads should be metered and billed. All transformer rated meters have an in-service test to ensure accuracy of billing calculations.

Due to the distance from our work-centre and the transient nature of Dubreuilville residents in the town, it is recommended to move to a Smart Meter/Remote read solution to keep API windshield hours/costs to a minimum. This would ensure inquiries of customers regarding their usage are well managed and customers can access My-Hydro-Eye to view their consumption patterns. Other issues that may be problematic is there are meters for customers on adjacent property owner's property - sometimes at the back of the property. Snow accumulation may make access to read difficult.

Access Keys will need to be acquired for non-accessible meters (one has not been read by a DLI employee in years, customer always provides the reading, one is in an electrical room, etc).

Appendix F

Power Systems Solutions – Dissolved Gas Analysis Report

POWER SYSTEM SOLUTIONS LTD
1189 Carrick St.
Thunder Bay , ON, Canada
P7B 6M3

T: 807.345-7775
F: 807.344-7003

bgeurts@powersystemsolutions.ca

June 29th, 2015

Dubreuil Lumber Inc.
21 Pine St.
Dubreuilville, Ontario
P0S 1B0

Attention – Mr. Luc Belanger

RE: Results of Transformer Oil Samples and Inspections

Our Ref: PSSL-0779
PO # – Email from Luc Belanger

Luc

As per your request, PSSL travelled to Dubreuville on June 11th to perform visual inspections of, and remove oil samples from the in service Town Site transformers.

Due to an extremely high dissolved gas analysis on one of the transformers, a return trip to site was required on June 25th to resample one transformer.

Please find below a summary of our results and any applicable recommendations developed from the oil analysis results and visual inspections.

Townsite #1 Transformers

Transformer #1 - Serial # 262644

Transformer has active oil weeps on sampling valve and tap changer handle
Oil temperature gauge is not functioning
Oil chemically in fair condition
Oil electrically in fair condition
Dissolved gas analysis found no concerns

Transformer #2 - Serial # 262646

Transformer HV bushing suffered catastrophic failure, transformer no longer in service
Active oil weep from tap changer handle
No oil samples removed as transformer not in service

POWER SYSTEM SOLUTIONS LTD
1189 Carrick St.
Thunder Bay , ON, Canada
P7B 6M3

T: 807.345-7775
F: 807.344-7003

bgeurts@powersystemsolutions.ca

Townsite #1 Transformers Continued

Transformer #3 – Serial # 262645

Transformer has active oil weeps on sampling valve and tap changer handle (fairly heavy on tap changer handle)
Oil chemically in fair condition
Oil electrically in fair condition
Dissolved gas analysis found no concerns

Recommendations

Given the failure of the HV bushing on the #2 transformer, the active oil weeps in proximity to a nearby creek, and the age of these transformers, ***we would recommend removal and replacement of these transformers.***

These transformers have exceeded their life expectancy, and are now > 60 years old. An enclosed pad mount type transformer would allow removal of the fenced yard and provide a reliable power source for this section of town.

Townsite #2 Transformers

Transformer #1 – Serial # 2164

Minor oil weep on temperature probe, sampling valve and conservator piping
Oil is in good condition chemically and electrically

Dissolved gas analysis found ***extremely high*** *levels of hot metal gases. The original sample found a hydrogen level of 1770 ppm, and a acetylene level of 881 ppm. This would indicate an active electrical arc occurring inside the transformer tank. Elevated levels of CO and CO2 would indicate that the arc is occurring in proximity to cellulose material (insulation).*

A follow up sample was removed on June 25th and a marginal reduction in the hot metal gases was found (hydrogen 1720 ppm, acetylene 845 ppm). This reduction would indicate that the arcing is most likely dependant on load (load is currently at minimum , no heating load).

Transformer #2 – Serial # 2165

Minor oil weep on temperature probe, sampling valve and conservator piping
Oil is in good condition chemically and electrically
Dissolved gas analysis found no concerns

POWER SYSTEM SOLUTIONS LTD
1189 Carrick St.
Thunder Bay , ON, Canada
P7B 6M3

T: 807.345-7775
F: 807.344-7003

bgeurts@powersystemsolutions.ca

Townsite #2 Transformers Continued

Transformer #3 – Serial # 2166

Oil is in good condition chemically and electrically
Dissolved gas analysis found no concerns

Spare Transformer – Serial # 0018-1

Oil is in good condition chemically and electrically

Recommendations

Due to the extremely high levels of hot metal gas, transformer #1 (Serial # 2164) should be removed from service as soon as electrical isolation can be arranged. We would recommend that the spare transformer be electrically tested before being put into service due to its lengthy storage period.

After the transformer has been removed from service, an internal inspection should be performed in an attempt to locate the source of the gases, and make repairs if possible.

We would like to thank Dubreuil Lumber Inc. for allowing us to provide this service.

Please review this report and contact us at your convenience with any questions or concerns you may have.

Bernard Geurts
Senior Service Representative
Power System Solutions Ltd.

Oil Filled Transformer Inspection

Transformer Designation : Townsite #1 - 1		**Serial Number** : 262644	
Manf : General Electric		**HV** : 44 KV	**LV** : 2400
Imp : 5.1 %	**Oil Volume** : 270 gal	**KVA** : 333	**Weight** : 7025 lbs
Type : ONAN	**BIL** : 250/75 KV	**Connection** : Single Phase	

Inspection Results

Inspected	Comment	Inspected	Comment
Tap Changer		**Auxiliary Devices**	
On load / Off Load	OFF	Oil Level	OK
Position	1	Oil Temperature	***
Oil Level	N/A	Winding Temperature	N/A
Compartment Seals	**	Vacuum / Press. Gauge	N/A
Pressure Relief	N/A	Gas Pressure Relay	N/A
Counter	N/A	Relief Diaphragms	OK
Bushings		**Tank**	
HV Bushings	OK	Visible Gaskets	OK
LV Bushings	OK	Oil Leaks	***
Bushing Connections	OK	Valve Condition	OK
General		Ground Connections	OK
Control Box Condition	N/A	Circulating Pumps	N/A
Breather	N/A	Ground Resistor	N/A
Fans	N/A		

Comments

- Small oil weep on sampling valve
- Tap changer handle weeping oil
- Oil temperature gauge not functioning properly, showing 20 deg C – ambient 20 deg C

Inspected By : KA/BG	**Date** : June 11, 2015

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OIL ANALYSIS REPORT

REFERENCE

Client:	Mr. Bernard Geurts (PSS01)	Sample No:	M288077A
E-mail:	bgeurts@powersystemsolutions.ca	Authorized by:	G G C
Company:	Power System Solutions Ltd.	Sent Date:	2015-06-22

EQUIPMENT

Apparatus Type:	TRN	KV:	44	Sampling Point:	MAIN
Location:	Dubreuil Forest	MVA:	0.333	Oil Temp. (°C):	40
Equipment No:		Oil type:	Mineral Oil	Sampled by:	B.Geurts
Serial No.:	262644	Year built:		Sampling Date:	2015-06-11 20:02
Additional info:					
Description:	Townsite #1 - 1				

DGA

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	< 10	Hydrogen		D3612-02
	< 2	Acetylene		ppm (V/V)
	< 2	Ethane		at 273 K
	< 2	Ethylene		and 760 Torr
	< 5	Methane		
	6	Carbon Monoxide		
	410	Carbon Dioxide		
	62400	Nitrogen		
	30400	Oxygen + Argon		
	9.28	Total Dissolved Gas (%)		

OIL QUALITY

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	22	Moisture in Oil (ppm)		SOP 5.5-03-01
		Moisture in Oil (ppm)		D 1533-12
	27.9	Interfacial Tension (mN/m)		D 971-12
	0.03	Acid Number (mg KOH/g)		D 974-14
	1.0	Color Number		D1500-12
	None	Free Water		D 1524-94
	Clear	Visual Examination		D 1524-94
	None	Sediment Examination		D 1524-94
	44	Dielectric Breakdown (kV)		D 877-13
		Dielectric Breakdown 2 mm (kV)		D 1816-12
		Power Factor @ 25 °C (%)		D 924-08
		Power Factor @ 100 °C (%)		D 924-08
	0.8561	Specific Gravity		D 1298-12b
		Oxidation Inhibitor DBP (wt. %)		D 4768-11
		Oxidation Inhibitor DBPC (wt. %)		D 4768-11
		PCB - Total Arochlor Content (ppm)		D 4059-00
		Corrosive Sulphur Method B		D 1275-06
		5-hydroxymethyl-2-furaldehyde (ppb)		D 5837-12
		furfuryl alcohol (ppb)		D 5837-12
		2-furaldehyde (ppb)		D 5837-12
		2-acetylfuran (ppb)		D 5837-12
		5-methyl-2-furaldehyde (ppb)		D 5837-12

COMMENTS:

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Oil Filled Transformer Inspection

Transformer Designation : Townsite #1 - 2		**Serial Number** : 262646	
Manf : General Electric		**HV** : 44 KV	**LV** : 2400
Imp : 5.1 %	**Oil Volume** : 270 gal	**KVA** : 333	**Weight** : 7025 lbs
Type : ONAN	**BIL** : 250/75 KV	**Connection** : Single Phase	

Inspection Results

Inspected	Comment	Inspected	Comment
Tap Changer		**Auxiliary Devices**	
On load / Off Load	OFF	Oil Level	OK
Position	1	Oil Temperature	***
Oil Level	N/A	Winding Temperature	N/A
Compartment Seals	**	Vacuum / Press. Gauge	N/A
Pressure Relief	N/A	Gas Pressure Relay	N/A
Counter	N/A	Relief Diaphragms	OK
Bushings		**Tank**	
HV Bushings	***	Visible Gaskets	OK
LV Bushings	OK	Oil Leaks	***
Bushing Connections	N/A	Valve Condition	OK
General		Ground Connections	OK
Control Box Condition	N/A	Circulating Pumps	N/A
Breather	N/A	Ground Resistor	N/A
Fans	N/A		

Comments

- Transformer not in service, catastrophic failure of one HV bushing
- Tap changer handle weeping oil
- Oil temperature gauge not functioning properly, showing 0 deg C – ambient > 20 degC

Inspected By : KA/BG	**Date** : June 11, 2015

Oil Filled Transformer Inspection

Transformer Designation : Townsite #1 - 3		**Serial Number** : 262645	
Manf : General Electric		**HV** : 44 KV	**LV** : 2400
Imp : 5.1 %	**Oil Volume** : 270 gal	**KVA** : 333	**Weight** : 7025 lbs
Type : ONAN	**BIL** : 250/75 KV	**Connection** : Single Phase	

Inspection Results

Inspected	Comment	Inspected	Comment
Tap Changer		**Auxiliary Devices**	
On load / Off Load	OFF	Oil Level	OK
Position	1	Oil Temperature	40 deg C
Oil Level	N/A	Winding Temperature	N/A
Compartment Seals	**	Vacuum / Press. Gauge	N/A
Pressure Relief	N/A	Gas Pressure Relay	N/A
Counter	N/A	Relief Diaphragms	OK
Bushings		**Tank**	
HV Bushings	OK	Visible Gaskets	OK
LV Bushings	OK	Oil Leaks	***
Bushing Connections	OK	Valve Condition	OK
General		Ground Connections	OK
Control Box Condition	N/A	Circulating Pumps	N/A
Breather	N/A	Ground Resistor	N/A
Fans	N/A		

Comments

- Small oil weep on sampling valve
- Tap changer handle has heavy oil weep

Inspected By : KA/BG	**Date** : June 11, 2015

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OIL ANALYSIS REPORT

REFERENCE

Client:	Mr. Bernard Geurts (PSS01)	Sample No:	M288073A
E-mail:	bgeurts@powersystemsolutions.ca	Authorized by:	G G C
Company:	Power System Solutions Ltd.	Sent Date:	2015-06-22

EQUIPMENT

Apparatus Type:	TRN	KV:	44	Sampling Point:	MAIN
Location:	Dubreuil Forest	MVA:	0.333	Oil Temp. (°C):	40
Equipment No:		Oil type:	Mineral Oil	Sampled by:	B.Geurts
Serial No.:	202645	Year built:		Sampling Date:	2015-06-11 20:02
Additional info:					
Description:	Townsite #1 - 3				

DGA

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	< 10	Hydrogen		D3612-02
	< 2	Acetylene		ppm (V/V)
	< 2	Ethane		at 273 K
	< 2	Ethylene		and 760 Torr
	< 5	Methane		
	11	Carbon Monoxide		
	422	Carbon Dioxide		
	61400	Nitrogen		
	28900	Oxygen + Argon		
	9.04	Total Dissolved Gas (%)		

OIL QUALITY

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	21	Moisture in Oil (ppm)		SOP 5.5-03-01
		Moisture in Oil (ppm)		D 1533-12
	28.6	Interfacial Tension (mN/m)		D 971-12
	0.03	Acid Number (mg KOH/g)		D 974-14
	1.5	Color Number		D1500-12
	None	Free Water		D 1524-94
	Clear	Visual Examination		D 1524-94
	None	Sediment Examination		D 1524-94
	37	Dielectric Breakdown (kV)		D 877-13
		Dielectric Breakdown 2 mm (kV)		D 1816-12
		Power Factor @ 25 °C (%)		D 924-08
		Power Factor @ 100 °C (%)		D 924-08
	0.8561	Specific Gravity		D 1298-12b
		Oxidation Inhibitor DBP (wt. %)		D 4768-11
		Oxidation Inhibitor DBPC (wt. %)		D 4768-11
		PCB - Total Arochlor Content (ppm)		D 4059-00
		Corrosive Sulphur Method B		D 1275-06
		5-hydroxymethyl-2-furaldehyde (ppb)		D 5837-12
		furfuryl alcohol (ppb)		D 5837-12
		2-furaldehyde (ppb)		D 5837-12
		2-acetylfuran (ppb)		D 5837-12
		5-methyl-2-furaldehyde (ppb)		D 5837-12

COMMENTS:

**** Morgan Schaffer is an ISO/IEC 17025 accredited laboratory ****

Oil Filled Transformer Inspection

Transformer Designation : Townsite #2 -1		**Serial Number** : 2164	
Manf : Ferranti Packard		**HV** : 44000	**LV** : 2400
Imp : 5.55 %	**Oil Volume** : 698 gal	**KVA** : 1667	**Weight** : 15590 lbs
Type : ONAN	**BIL** : 250 / 95 KV	**Connection** : Single Phase	

Inspection Results

Inspected	Comment	Inspected	Comment
Tap Changer		**Auxiliary Devices**	
On load / Off Load	OFF	Oil Level	OK
Position	3	Oil Temperature	35 deg C
Oil Level	N/A	Winding Temperature	N/A
Compartment Seals	OK	Vacuum / Press. Gauge	N/A
Pressure Relief	N/A	Gas Pressure Relay	N/A
Counter	N/A	Relief Diaphragms	OK
Bushings		**Tank**	
HV Bushings	OK	Visible Gaskets	OK
LV Bushings	OK	Oil Leaks	**
Bushing Connections	OK	Valve Condition	OK
General		Ground Connections	OK
Control Box Condition	OK	Circulating Pumps	N/A
Breather	N/A	Ground Resistor	N/A
Fans	N/A		

Comments

- Minor oil weeps on oil temperature probe, sampling valve and conservator piping

Inspected By : KA/BG	**Date** : June 11, 2015

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OIL ANALYSIS REPORT

REFERENCE

Client:	Mr. Bernard Geurts (PSS01)	Sample No:	M289339A
E-mail:	bgeurts@powersystemsolutions.ca	Authorized by:	R.P
Company:	Power System Solutions Ltd.	Sent Date:	2015-06-26

EQUIPMENT

Apparatus Type:	TRN	KV:	44	Sampling Point:	MAIN
Location:	Dubreuil Forest	MVA:	1.67	Oil Temp. (°C):	
Equipment No:		Oil type:	Mineral Oil	Sampled by:	BG
Serial No.:	2164	Year built:		Sampling Date:	2015-06-25
Additional info:					
Description:	Townsite #2 - 1				

DGA

2015-06-11	2015-06-25	Parameter	Screening Code(T/R)	Test Method
1770	**1720**	Hydrogen		D3612-02
881	**845**	Acetylene		ppm (V/V)
47	**45**	Ethane		at 273 K
532	**513**	Ethylene		and 760 Torr
429	**387**	Methane		
828	**799**	Carbon Monoxide		
1100	**1090**	Carbon Dioxide		
59100	**61900**	Nitrogen		
29100	**32000**	Oxygen + Argon		
9.35	**9.88**	Total Dissolved Gas (%)		

OIL QUALITY

Previous	2015-06-25	Parameter	Screening Code(T/R)	Test Method
16		Moisture in Oil (ppm)		SOP 5.5-03-01
		Moisture in Oil (ppm)		D 1533-12
32.7		Interfacial Tension (mN/m)		D 971-12
0.01		Acid Number (mg KOH/g)		D 974-14
1.0		Color Number		D1500-12
None		Free Water		D 1524-94
Clear		Visual Examination		D 1524-94
Small Amount		Sediment Examination		D 1524-94
39		Dielectric Breakdown (kV)		D 877-13
		Dielectric Breakdown 2 mm (kV)		D 1816-12
		Power Factor @ 25 °C (%)		D 924-08
		Power Factor @ 100 °C (%)		D 924-08
0.8719		Specific Gravity		D 1298-12b
		Oxidation Inhibitor DBP (wt. %)		D 4768-11
		Oxidation Inhibitor DBPC (wt. %)		D 4768-11
		PCB - Total Arochlor Content (ppm)		D 4059-00
		Corrosive Sulphur Method B		D 1275-06
		5-hydroxymethyl-2-furaldehyde (ppb)		D 5837-12
		furfuryl alcohol (ppb)		D 5837-12
		2-furaldehyde (ppb)		D 5837-12
		2-acetylfuran (ppb)		D 5837-12
		5-methyl-2-furaldehyde (ppb)		D 5837-12

COMMENTS:

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Oil Filled Transformer Inspection

Transformer Designation : Townsite #2 -2		**Serial Number** : 2165	
Manf : Ferranti Packard		**HV** : 44000	**LV** : 2400
Imp : 5.47 %	**Oil Volume** : 698 gal	**KVA** : 1667	**Weight** : 15590 lbs
Type : ONAN	**BIL** : 250 / 95 KV	**Connection** : Single Phase	

Inspection Results

Inspected	Comment	Inspected	Comment
Tap Changer		**Auxiliary Devices**	
On load / Off Load	OFF	Oil Level	OK
Position	3	Oil Temperature	35 deg C
Oil Level	N/A	Winding Temperature	N/A
Compartment Seals	OK	Vacuum / Press. Gauge	N/A
Pressure Relief	N/A	Gas Pressure Relay	N/A
Counter	N/A	Relief Diaphragms	OK
Bushings		**Tank**	
HV Bushings	OK	Visible Gaskets	OK
LV Bushings	OK	Oil Leaks	**
Bushing Connections	OK	Valve Condition	OK
General		Ground Connections	OK
Control Box Condition	OK	Circulating Pumps	N/A
Breather	N/A	Ground Resistor	N/A
Fans	N/A		

Comments

- Minor oil weeps on oil temperature probe, sampling valve and conservator piping

Inspected By : KA/BG	**Date** : June 11, 2015

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OIL ANALYSIS REPORT

REFERENCE

Client:	Mr. Bernard Geurts (PSS01)	Sample No:	M288075A
E-mail:	bgeurts@powersystemsolutions.ca	Authorized by:	G G C
Company:	Power System Solutions Ltd.	Sent Date:	2015-06-22

EQUIPMENT

Apparatus Type:	TRN	KV:	44	Sampling Point:	MAIN
Location:	Dubreuil Forest	MVA:	1.67	Oil Temp. (°C):	40
Equipment No:		Oil type:	Mineral Oil	Sampled by:	B.Geurts
Serial No.:	2165	Year built:		Sampling Date:	2015-06-11 20:02
Additional info:					
Description:	Townsite #2 - 2				

DGA

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	< 10	Hydrogen		D3612-02
	< 2	Acetylene		ppm (V/V)
	< 2	Ethane		at 273 K
	< 2	Ethylene		and 760 Torr
	< 5	Methane		
	39	Carbon Monoxide		
	773	Carbon Dioxide		
	59500	Nitrogen		
	29300	Oxygen + Argon		
	8.93	Total Dissolved Gas (%)		

OIL QUALITY

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	15	Moisture in Oil (ppm)		SOP 5.5-03-01
		Moisture in Oil (ppm)		D 1533-12
	32.6	Interfacial Tension (mN/m)		D 971-12
	0.02	Acid Number (mg KOH/g)		D 974-14
	1.0	Color Number		D1500-12
	None	Free Water		D 1524-94
	Clear	Visual Examination		D 1524-94
	None	Sediment Examination		D 1524-94
	54	Dielectric Breakdown (kV)		D 877-13
		Dielectric Breakdown 2 mm (kV)		D 1816-12
		Power Factor @ 25 °C (%)		D 924-08
		Power Factor @ 100 °C (%)		D 924-08
	0.8706	Specific Gravity		D 1298-12b
		Oxidation Inhibitor DBP (wt. %)		D 4768-11
		Oxidation Inhibitor DBPC (wt. %)		D 4768-11
		PCB - Total Arochlor Content (ppm)		D 4059-00
		Corrosive Sulphur Method B		D 1275-06
		5-hydroxymethyl-2-furaldehyde (ppb)		D 5837-12
		furfuryl alcohol (ppb)		D 5837-12
		2-furaldehyde (ppb)		D 5837-12
		2-acetylfuran (ppb)		D 5837-12
		5-methyl-2-furaldehyde (ppb)		D 5837-12

COMMENTS:

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Oil Filled Transformer Inspection

Transformer Designation : Townsite #2 -3		**Serial Number** : 2166	
Manf : Ferranti Packard		**HV** : 44000	**LV** : 2400
Imp : 5.49 %	**Oil Volume** : 698 gal	**KVA** : 1667	**Weight** : 15590 lbs
Type : ONAN	**BIL** : 250 / 95 KV	**Connection** : Single Phase	

Inspection Results

Inspected	Comment	Inspected	Comment
Tap Changer		**Auxiliary Devices**	
On load / Off Load	OFF	Oil Level	OK
Position	3	Oil Temperature	35 deg C
Oil Level	N/A	Winding Temperature	N/A
Compartment Seals	OK	Vacuum / Press. Gauge	N/A
Pressure Relief	N/A	Gas Pressure Relay	N/A
Counter	N/A	Relief Diaphragms	OK
Bushings		**Tank**	
HV Bushings	OK	Visible Gaskets	OK
LV Bushings	OK	Oil Leaks	OK
Bushing Connections	OK	Valve Condition	OK
General		Ground Connections	OK
Control Box Condition	OK	Circulating Pumps	N/A
Breather	N/A	Ground Resistor	N/A
Fans	N/A		

Comments

Inspected By : KA/BG	**Date** : June 11, 2015

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OIL ANALYSIS REPORT

REFERENCE

Client:	Mr. Bernard Geurts (PSS01)	Sample No:	M288076A
E-mail:	bgeurts@powersystemsolutions.ca	Authorized by:	G G C
Company:	Power System Solutions Ltd.	Sent Date:	2015-06-22

EQUIPMENT

Apparatus Type:	TRN	KV:	44	Sampling Point:	MAIN
Location:	Dubreuil Forest	MVA:	1.67	Oil Temp. (°C):	40
Equipment No:		Oil type:	Mineral Oil	Sampled by:	B.Geurts
Serial No.:	2166	Year built:		Sampling Date:	2015-06-11 20:02
Additional info:					
Description:	Townsite #2 - 3				

DGA

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	< 10	Hydrogen		D3612-02
	< 2	Acetylene		ppm (V/V)
	< 2	Ethane		at 273 K
	< 2	Ethylene		and 760 Torr
	< 5	Methane		
	39	Carbon Monoxide		
	791	Carbon Dioxide		
	60500	Nitrogen		
	29700	Oxygen + Argon		
	9.07	Total Dissolved Gas (%)		

OIL QUALITY

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	13	Moisture in Oil (ppm)		SOP 5.5-03-01
		Moisture in Oil (ppm)		D 1533-12
	32.8	Interfacial Tension (mN/m)		D 971-12
	0.02	Acid Number (mg KOH/g)		D 974-14
	1.5	Color Number		D1500-12
	None	Free Water		D 1524-94
	Clear	Visual Examination		D 1524-94
	None	Sediment Examination		D 1524-94
	36	Dielectric Breakdown (kV)		D 877-13
		Dielectric Breakdown 2 mm (kV)		D 1816-12
		Power Factor @ 25 °C (%)		D 924-08
		Power Factor @ 100 °C (%)		D 924-08
	0.8691	Specific Gravity		D 1298-12b
		Oxidation Inhibitor DBP (wt. %)		D 4768-11
		Oxidation Inhibitor DBPC (wt. %)		D 4768-11
		PCB - Total Arochlor Content (ppm)		D 4059-00
		Corrosive Sulphur Method B		D 1275-06
		5-hydroxymethyl-2-furaldehyde (ppb)		D 5837-12
		furfuryl alcohol (ppb)		D 5837-12
		2-furaldehyde (ppb)		D 5837-12
		2-acetylfuran (ppb)		D 5837-12
		5-methyl-2-furaldehyde (ppb)		D 5837-12

COMMENTS:

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Oil Filled Transformer Inspection

Transformer Designation : Townsite #2 -Spare		**Serial Number** : 0018-1	
Manf : Ferranti Packard		**HV** : 44000	**LV** : 2400
Imp : 5.35 %	**Oil Volume** : 1510 L	**KVA** : 1667	**Weight** : 4925 kg
Type : ONAN	**BIL** : 250 / 95 KV	**Connection** : Single Phase	

Inspection Results

Inspected	Comment	Inspected	Comment
Tap Changer		**Auxiliary Devices**	
On load / Off Load	OFF	Oil Level	OK
Position	1	Oil Temperature	25 deg C
Oil Level	N/A	Winding Temperature	N/A
Compartment Seals	OK	Vacuum / Press. Gauge	OK
Pressure Relief	N/A	Gas Pressure Relay	N/A
Counter	N/A	Relief Diaphragms	OK
Bushings		**Tank**	
HV Bushings	OK	Visible Gaskets	OK
LV Bushings	OK	Oil Leaks	OK
Bushing Connections	Not connected	Valve Condition	OK
General		Ground Connections	OK
Control Box Condition	N/A	Circulating Pumps	N/A
Breather	OK	Ground Resistor	N/A
Fans	N/A		

Comments

Inspected By : KA/BG	**Date** : June 11, 2015

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OIL ANALYSIS REPORT

REFERENCE

Client:	Mr. Bernard Geurts (PSS01)	Sample No:	M288072A
E-mail:	bgeurts@powersystemsolutions.ca	Authorized by:	
Company:	Power System Solutions Ltd.	Sent Date:	2015-06-23

EQUIPMENT

Apparatus Type:	TRN	KV:	44	Sampling Point:	MAIN
Location:	Dubreuil Forest	MVA:	1.67	Oil Temp. (°C):	25
Equipment No:		Oil type:	Mineral Oil	Sampled by:	B.Geurts
Serial No.:	00018-1	Year built:		Sampling Date:	2015-06-11 20:02
Additional info:					
Description:	Townsite #2 - Spare				

DGA

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
		Hydrogen		D3612-02
		Acetylene		ppm (V/V)
		Ethane		at 273 K
		Ethylene		and 760 Torr
		Methane		
		Carbon Monoxide		
		Carbon Dioxide		
		Nitrogen		
		Oxygen + Argon		
		Total Dissolved Gas (%)		

OIL QUALITY

Previous	2015-06-11	Parameter	Screening Code(T/R)	Test Method
	3	Moisture in Oil (ppm)		SOP 5.5-03-01
		Moisture in Oil (ppm)		D 1533-12
	40.5	Interfacial Tension (mN/m)		D 971-12
	< 0.01	Acid Number (mg KOH/g)		D 974-14
	1.0	Color Number		D1500-12
	None	Free Water		D 1524-94
	Clear	Visual Examination		D 1524-94
	None	Sediment Examination		D 1524-94
	42	Dielectric Breakdown (kV)		D 877-13
		Dielectric Breakdown 2 mm (kV)		D 1816-12
		Power Factor @ 25 °C (%)		D 924-08
		Power Factor @ 100 °C (%)		D 924-08
	0.8988	Specific Gravity		D 1298-12b
		Oxidation Inhibitor DBP (wt. %)		D 4768-11
		Oxidation Inhibitor DBPC (wt. %)		D 4768-11
		PCB - Total Arochlor Content (ppm)		D 4059-00
		Corrosive Sulphur Method B		D 1275-06
		5-hydroxymethyl-2-furaldehyde (ppb)		D 5837-12
		furfuryl alcohol (ppb)		D 5837-12
		2-furaldehyde (ppb)		D 5837-12
		2-acetylfuran (ppb)		D 5837-12
		5-methyl-2-furaldehyde (ppb)		D 5837-12

COMMENTS:

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Appendix G

2016 Ontario Regulation 22/04 Audit Report

Ontario Regulation 22/04- Electrical Distribution Safety

AUDIT REPORT
2016

Prepared For:

Dubreuil Lumber Inc.

Conducted & Submitted By:

Simeon Go, CET, ASA, CUSA

Date of Audit:

April 12, 13, 2017

Date of Audit Report:

April 17, 2017

CONFIDENTIAL

ONTARIO REGULATION 22-04
AUDIT REPORT

For 2016

Table of Contents

CONFIDENTIAL

ONTARIO REGULATION 22-04
AUDIT REPORT

For 2016

Scope:

Description of the Distributor

*Dubreuil Lumber Inc. holds an Electricity Distribution Licence (ED-2012-0074) issued by the Ontario Energy Board (OEB) on March 5, 2012, that authorizes it to own, operate and act as wholesaler in accordance with the Electricity Act.

This local distributor company (LDC) is supplying electricity to Dubreuilville, Ontario. This small town of about 350 people is located on Highway 519, 32 Kilometers east of Highway 17.

Dubreuil Lumber Inc. operates and maintains 44 kV,4.16/2.4 kV distribution systems in its service territory. The company has 3 distribution substations situated at different locations. The company's distribution system has 150 poles, 10 padmount transformers and 75 pole mounted transformers.

* Source- Electrical Distribution Package that the Company provided to the ESA concerning its "Electrical Distribution System."

Description of the Auditor:

Simeon Go is a Certified Engineering Technician (CET), an Accredited Safety Auditor (ASA) to the International Safety Rating System (ISRS, based on Loss Control Management System) and a Certified Utility Safety Administrator (CUSA).

Simeon has extensive audit and training experience in the electric utility industry. He has been involved in auditing various departments in Toronto Hydro using both the ISRS and the Workwell auditing processes. By developing training materials, and providing audit methods, he has delivered training to all levels of management and operating staff on Electrical Safety and Auditing topics. Since 2005, Simeon audited some distributors in the Niagara Region area and some in the Northern part of Ontario on their compliance to O. Reg. 22/04. He is currently the Manager, Health, Safety and Environment for Energy+ Inc.

Period covered for Audit:

Dubreuil Lumber Inc. belongs to Group 2. For 2016, the audit period of local distribution companies that belong to Group 2 has been set from March 1, 2016 to February 28, 2017.

ONTARIO REGULATION 22-04
AUDIT REPORT

For 2016

Objective and Scope of the Audit:

To conduct a comprehensive review of the processes, guidelines, and standards used by Dubreuil Lumber Inc. to design, construct, install, use, maintain, repair, extend, connect and disconnect the electrical installation and equipment forming the distribution system as to avoid or reduce the possibility of electrical hazards.

Auditing Methodology followed:

The following standard audit practices were followed to assess the level of conformance to the provincial safety regulation:

1. Review of Dubreuil Lumber Inc.'s existing processes, guidelines and standards.
2. Sit down meeting with knowledgeable personnel
3. Site visits.

Description of the Audit Process:

Day 1 am:

An opening meeting was held to provide Dubreuil Lumber Inc.'s Superintendent an overview of the audit process and the five sections of the regulation subject for assessment by an independent external auditor. With the audit checklist, the auditor interviewed Dubreuil Lumber Inc.'s Electrician who was knowledgeable of company's operations and the provincial regulation 22/04.

Day 1- am/pm:

The Auditor examined the distributor's processes, documentation and records to verify compliance with sections 4,5,6,7 & 8 of Ontario Regulation 22/04. This included the examination of records for design standards, equipment standards, records for testing or inspection, approval of all equipment used. Also, the Auditor examined existence of plans, standard design drawings and specifications, maintenance checklists/procedures/instructions/certified equipment test results.

The auditor also made the physical conditions tour of the company's distribution facilities and he was accompanied by the Superintendent. The auditor went to see the Bunkhouse Powerline Project. (4160V/600V Service).

The General Manager was interviewed with respect to the applicable sections of the regulation:

Section	Knowledgeable Personnel	Date Interviewed
4- Safety Standards	Luc Belanger	April 12 and 13, 2017
5-When Safety Standards Met	Luc Belanger	April 12 and 13, 2017
6-Approval of Electrical Equipment	Luc Belanger	April 12 and 13, 2017
7-Approval of Plans, Drawings, and Specifications	Luc Belanger	April 12 and 13, 2017
8-Inspection and approval of construction	Luc Belanger	April 12 and 13, 2017

Luc Belanger as designated the main contact for the audit.

Day 1 -pm: At the end of the day, the auditor conducted a "closing-out meeting" with Dubreuil Lumber Inc.'s electrician whereby the auditor presented his overall audit findings and recommendations. Also, the auditor mentioned the requirement to develop actions plan for all non-compliances findings and recommendations cited in the report and that the format of the Management Response Report should be in accordance to the Auditing Guidelines.

Independence Statement:

I, Simeon Go hereby declare that: I am an independent Auditor and with no conflict of interest with my client that affects my ability to provide a fair Audit Report.

Auditor's Opinion (s):

1) Interview and record verification revealed that in 2016, the Dubreuil Lumber Inc. developed some processes relevant to Ontario Regulation 22/04. Most of these processes are in draft.

2. The distributor was verified to be not in compliance with the five sections audited. Also, some elements in the regulation were "not applicable" based on distributor's operating practice. Details of the findings, recommendations and the *"Management Response"* (Appendix A) are included as part of this report.

3. The distributor has a Health and Safety Policy supported by its Health & Safety Program. The organization implemented its health and safety program at the time the Mill was in operation.

4. Interview and record verification showed that on July 2016, a Professional Engineer from ESA met with the President and Superintendent of the distributor to talk about the Regulation 22/04. Also, after the visit, the ESA representative concluded in their report that *"two public concerns were identified in the inspection with respect to the distribution system."* and numerous other reliability concerns." Furthermore, the ESA report concluded that *" ESA, does not see significant improvement with respect to how the distribution system run compared to the 2011 inspection.."*

Key Audit Finding:

Section 4: Safety Standards

Section 4.0 of *Regulation 22/04* (Electrical Distribution Safety) requires the distributor has processes in place to ensure that all distribution systems and the electrical installation, and electrical equipment forming part of such systems are designed, constructed, installed, protected, used, maintained, repaired, extended, connected and disconnected so as to avoid/reduce the exposure to electrical safety hazards.

Finding(s):

	C	NC	NI	N/A
4.3 Electrical installation operating at 750 volts or below....		X		
4.4 Overhead distribution lines including secondary distribution lines...		X		
4.5 Underground distribution lines including secondary distribution lines...		X		
4.6 Distribution stations...		X		

C-complies, NI- Needs Improvement, NC Non-compliance, N/A –Not Applicable

Non-Compliance (C):

- Record verification and interview with the Superintendent, showed that in 2016, Dubreuil Lumber Inc. has a draft maintenance program and process to inspect and maintain overhead, underground and station distribution facilities that includes: inspection of equipment, lines, poles, and regular schedule for maintenance.
- The "Distribution System Patrol Reporting Report" is being used by the Superintendent in the patrol activities of the distribution lines (OH, UG and Stations) in Zone 1, 2, 3. The inspection form includes: location, equipment, repair issue priority and date work completed. Not all deficiencies found during the inspection were completed.
- Transformer Oil Test was done in 2015 and no test was done in 2016. The LDC is still in the process of taking actions of the deficiencies/recommendations observed and cited in 2015 report.

Record Verification references/evidences/Physical Condition Tour:

- Few evidence shown as to: Inspection/Maintenance programs/schedules, Maintenance checklist/procedures, Maintenance records/inspection logs. Authorized competent person to conduct inspection and maintenance of the distribution facilities.
- July 2016 ESA Report (Inspection and Regulation 22/04 Compliance Meeting)
- General observations: Substations barriered with fencing, locks and signage, OH lines have clearances between ground and lines in accordance to industry specifications and poles with sufficient guying.
- Pole Testing done by visual inspection
- Leaking pad mount transformer has not been fixed at the time of the audit. Had been coordinated with contractor.
- Superintendent conduct UG cable locates as well as meter reading
- Line Patrols done on: Sept, 6, 2016, July 5, 2016, and Oct 28 2016.

Section 5: When Safety Standards Met

To meet the requirements of Section 5.0 of *Regulation 22/04* (Electrical Distribution Safety), the distributor would have to ensure that there are processes in place that check on an ongoing basis the installations, overhead and underground lines and distribution stations.

Finding(s):

	C	NC	NI	N/A
5.1 Electrical installation operating at 750 volts or below....		X		
5.2 Overhead distribution lines including secondary distribution lines...		X		
5.3 Underground distribution lines including secondary distribution lines...		X		
5.4 Distribution stations...		X		

C-complies, NI- Needs Improvement, NC Non-compliance, N/A –Not Applicable

For 2016

Non-Compliance (NC)

1. Record verification and interview with the Superintendent, showed that in 2016, Dubreuil Lumber Inc. has no process in place to check on an ongoing basis that the installations, overhead, underground and stations meet and continue to meet the requirements of the CSA standard and appropriate rules of the Ontario Electrical Safety Code (OESC).

Physical Condition Tour References/evidences:

- No process shown.
- OESC 24th Edition-2009

Section 6: Equipment Approval

Section 6 of Regulation 22/04 requires the use of certified/duly approved equipment for the construction of new or the repair and extension of existing distribution systems after February 11, 2005.

Finding(s):

	C	NC	NI	N/A
1.1 Electrical Equipment Approval: Rule: a- 2-024 of ESC, or b-Rule of Distributor …. 6.1 (b) Major and Non-major equipment approval under the Rule of Distributor		X X		
6.2 Electrical Equipment approved under clause (1)(b)		X		

C-complies, NI- Needs Improvement, NC Non-compliance, N/A –Not Applicable

Non-compliance (NC)

1. This audit confirmed that in 2016, the distributor has an Equipment Approval process in draft format. Among others, the draft process showed that the distributor: a) will maintain their list of approved materials with description; b) follow the "Rule of the Distributor" for equipment approval (both major and non-major equipment).

Record Verification reference:

- Draft Equipment Approval Process (June 20, 2013) – subject for approval and implementation.
- Purchasing Specifications: (Outdoor Power Fuse, Compression Splice, etc.)
- No Certified Test Result of Equipment on file.

Section 7: Approval of plans, drawings, and specifications for installation work

Section 7.0 of *Regulation 22/04* (Electrical Distribution Safety) applies to electrical installations that are, or may form part of the distribution system. This section requires that before starting, or affecting repairs, alterations, or extensions of an existing distribution system, the distributor must ensure that the installation is based on:

- Plans that have been prepared by a Professional Engineer and these have been reviewed and approved by a professional engineer or ESA; or
- The distributor's standard design drawings are assembled by a Professional Engineer or by an engineering technologist certified by OACETT, or by another competent person, and reviewed and approved by a professional engineer or by ESA.

Moreover, prior to authorizing third party attachments, the distributor is to ensure that attachments to its distribution systems meet the safety requirements of the Regulation.

Finding(s):

	C	NC	NI	N/A
7.1 a ,b-installation work is based a) P. Eng. b) approved standards .		X		
7.2 a, b,- review & approval of plans by a) P. Eng. b) Authority or ESA		X		
7.3 Certificate from P. Eng…		X		
7.5 Certificate from ESA…		X		
7.6 Plans, Standard Design Drawings, Specifications, Certificates available to ESA…		X		

C-complies, NI- Needs Improvement, NC Non-compliance, N/A –Not Applicable

Non-compliance (NC):

1. It was verified that Dubreuil Lumber Inc. has draft of its Design Approval Process.

Record Verification references/evidences:

- Draft: Approval of Plans, Drawings and Specifications Process. – Subject for approval and implementation.(June 20, 2013)

Section 8: Construction Approval and Inspections

After February 11, 2005, the date section 8 of the Regulation comes into effect, before putting any new construction or repairs of the distribution systems into use, the distributor is to:

- ensure the construction is inspected;
- confirm that only approved equipment was utilized in the construction;
- prepare a record of inspection; and
- complete a Certificate

Finding(s):

	C	NC	NI	N/A
8.1 Inspection and approval		X		
8.2 a) Inspected by P. Eng.				X
8.2 b) Inspected by Qualified Person in approved CVP		X		
8.2 c) Inspected by ESA		X		
8.3 Record of Inspection by P. Eng.				X
8.4 Certificate of Approval by P. Eng.		X		
8.5 Record of Inspection by Qualified Person		X		
8.6 Certificate of Approval by Qualified Person		X		
8.7Certificate available to the Authority		X		
8.8 Record of Inspection & Certificate from ESA		X		

C-complies, NI- Needs Improvement, NC Non-compliance, N/A –Not Applicable

Non-compliance (NC)

1. Record verifications revealed that in 2016, Dubreuil Lumber Inc. an approved Construction Verification Program (CVP). The Certificate # is DLI-CVP 120312. The CVP included the list of qualified and competent personnel; standards for conducting an inspection and completing the record of inspection as well as the process to complete the Certificate,

Record Verifications Reference:

- Construction Verification Program (CVP)
- CVP Not being followed and no evidence to show that required "Record of Inspection Checklist and Certificate is being used and completed

Recommendations:

Section 4 & 5:

1. To finalize/approve and implement its inspection and maintenance program for the overhead, underground and substation facilities. To meet the OEB's Distribution System Code APPENDIX C - Minimum Inspection Requirements.

Section 6:

1. To finalize/approve and implement its Equipment Approval Process. Maintain a Material List (both major equipment and non-major and retain Certified test Results approved by a P. Eng.

Section 7:

1. To finalize/approve and implement its process for approval of plans, drawings and specifications. Ensure that all installation work is based on Standard Designs (that have the associated certificates of approval) and in accordance with the Dubreuil Lumber Inc.'s job planning process.

Section 8:

1. To implement its approve Construction Verification Program (CVP). To train staff on the CVP and have all completed Record of Inspection and Certificate on file for the Auditor to verify.

Closing Statements:

Dubreuil Lumber Inc.'s is going through some challenging times and just awaiting for the economy to pick up so the organization can open the Mills for operation. However, in April 2016, Dubreuil Lumber informed the OEB that it will not be renewing its license to distribute electricity in the township. During the Audit, it was verified that the OEB has named Algoma Power Inc. as the interim operator of the electricity distribution system for the township of Dubreuilville for six months (OEB Order EB-2017-0153).

After the visit of the ESA representative in July 2016, Dubreuil Lumber Inc.'s Superintendent responded to the ESA on March 22, 2017 to enumerate the action plans by Dubreuil Lumber in order to correct the safety concerns cited in the ESA's July 2016 Inspection Report.

This report includes the recommendations to comply with the five key components (Sections 4, 5, 6, 7, 8) of the Electrical Distribution Safety.

The observations and results obtained during this assessment are representative of the conditions during the assessment made by Auditor to Dubreuil Lumber Inc. on April 12, 13, 2017. The statements made in this report are based solely on the information obtained to date as part of the above referenced assessment. The information presented herein is based on the

review of documentation provided, observations and interviews conducted. The auditor has used his professional judgment in analyzing this information and formulating its conclusions and recommendations. No other warranty, expressed or implied, as to the accuracy of the information or recommendations is included or intended in this report.

Management's Response:

Part of the report is Dubreuil Lumber Inc. Management's response to the Audit findings. Included are action plans for the non-compliances and recommendations with a timetable to rectify the situation.

Simeon Go
External Independent Auditor
April 17, 2017

Ken Buchanan, Jr.
April 17, 2017

Appendix A: Management Response

Non-Conformance (NC) Needs Improvement (NI)	Problem Description	Resolution	Person Responsible	Date to be Completed
NC	Section 4&5 • No formal inspection/maintenance program for the overhead, underground and substation facilities.	• Approve and implement its inspection and maintenance program for the overhead, underground and substation facilities. • To meet OEB's Distribution System Code Appendix C.		
NC	Section 6: • No formal Equipment Approval Process in place.	• Approve and implement its Equipment Approval Process.		
NC	Section 7: • No formal process for approval of plans, drawings and specifications.	• Approve and implement its process for approval of plans, drawings and specifications. Ensure that all installation work is based on Standard Designs (that have the associated certificates of approval) and in accordance with the Dubreuil Lumber Inc.'s job planning process.		
NC	Section 8: • Construction Verification Program not implemented.	• Implement its Construction Verification Program (CVP) • Train staff on approved CVP.		

Signature: _____

Print Name: Ken Buchanan, Jr.

Title or Professional Designation: President **Date:** April 17, 2017