Draft Phase I Environmental Site Assessment of Algonquins of Pikwàkanàgan First Nation Reserve, Pikwàkanàgan, ON

Project No. 122510937



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Executive Summary

Site Description and Current Operations

Stantec Consulting Ltd. (Stantec) was retained by the Algonquins of Pikwàkanàgan First Nation (APFN) to conduct a Phase I Environmental Site Assessment (Phase I ESA) of the APFN Reserve (formerly #39, as described in the approved CLSR Plan #52200) located near Golden Lake, Ontario, herein referred to as the "Site". The APFN lands cover approximately 728 ha (1850 acres). At the time of the site visit, the Site was occupied by approximately 217 residential houses with heated garages and 14 community buildings owned by the APFN. The construction of the buildings varies from slab on grade, single storey houses to multi-level office buildings with basements. Asphalt-paved parking lots and throughways surround the community buildings and connect the residential houses. The majority of the Site is undeveloped wetland or forested land. The Phase I ESA was conducted to support the transfer of management of the First Nation's lands and resources from the Government of Canada to the First Nation. The purpose of the Phase I ESA was to determine if evidence of potential or actual contamination exists at the Site, which may be present as a result of current or past activities on the Site or neighbouring properties.

Records Review

In general, based on the historical information gathered during the Phase I ESA, the Site has had a lumber mill at the northwest corner of the Site from approximately 1900 to the 1930s, railway tracks crossing the Site from the southeast to the southwest, a former marine gas bar, a former dumping pit, a former car crushing site, and a former sand pit. The Site is owned by the Government of Canada.

The residential houses have been constructed between the 1980s and the present. The community buildings have been constructed between the early 1900s and the present.

Current on-site community buildings include:

- the Nativity Church,
- Elder's Lodge,
- Recreational Center,
- Day Care Center,
- Health Center,
- APFN Band Office,
- Retirement Home,
- Cultural Center/Museum,
- Fire Hall,
- Industrial Center,
- Commercial Center,



- Landfill with storage garage,
- Maintenance Garage
- Kiji Works barn (log house formerly used for woodworking and attached barn).

Approximately 217 residences are present on the APFN reserve. The individual residences were not assessed at the time of the Site visit.

Site Visit/Interviews

The Site visits were conducted by Brenda Thom, M.Sc. (Eng.), EIT, of Stantec between January 27 and 31, 2014. The Site and readily visible and publicly accessible portions of adjoining and neighbouring properties were observed for the presence of potential sources of environmental contamination. Stantec was accompanied by Danny Sarazin of APFN for three days, and Chantal Coburn of APFN for one day of the Site visits. The 14 community buildings assessed included: the church, elder's lodge, recreational center, daycare, health center, the APFN administration building, retirement home, cultural center/ museum, fire hall, industrial center, commercial center, the maintenance garage, and the barn. Private houses and other community owned buildings were not assessed for building materials, but the heating fuel source and the presence of any debris on the land were noted.

Several potential environmental concerns were identified at the time of the Site visit with respect to APFN's occupation of the Site. Fuel storage at community owned buildings and private residences were observed with minimal or no secondary containment and the ground surfaces in these areas were completely snow covered and could not be assessed.

Floor drains in both sides of the Maintenance Garage, and in the private garage, Smoke'n'Tires, reportedly drain directly into the soil with no oil water separator in between.

The presence of the Kokomish Café and Gas Bar at the northeast corner of the APFN reserve has two underground storage tanks for gasoline and diesel fuel. The property was historically owned by the APFN, but the land and business are currently privately owned.

The remainder of the potential environmental concerns identified at the time of the Site visits are included in the relevant sections of this report (Section 7.1). It is important to note that the exterior surfaces of the Site were heavily snow covered at the time of each Site visit, and were therefore not assessed.

Conclusions/Recommendations

The Phase I ESA has revealed evidence of potential environmental contamination associated with the Site. The sources of potential environmental concern (PEC) identified during this Phase I ESA are outlined in the table below. The numbers associated with each concern are illustrated on Drawing 4 in **Appendix A**. It is important to note that the exterior surfaces of the Site could not be assessed due to the heavy snow cover on-site at the time of all visits. It was therefore not possible to assess waste storage areas for staining and leaks.



Number on Drawing	Potential Environmental Concern		
	Fire Hall.		
1	Jerry cans and fire suppressant foam around a drain with unknown discharge location.		
	Water damage on the floor of the second story of the fire house, and mold on the ceiling of the fire hall.		
2	Health Center.		
	Possible mold due to leaking roof.		
	APFN Band Office.		
3	Two sumps located in the basement with unknown discharge locations.		
	Fueling AS1S with no secondary containment. Minor staining on the gravel floor in the garage		
	Maintanance Carage		
	Four exterior fueling ASTs without secondary containment		
	Oil pails inside the APFN garage with staining on the floor underneath.		
4	Two drains discharging to a dry well located north of the building.		
	Oil pails stacked to the north of the building.		
	Unknown location of the reported waste oil container.		
	Salt storage.		
	Kiji Works Barn.		
5	Water damage, mold and animal feces located on the second floor.		
	Construction debris noted on the east side of the second floor.		
6	Commercial Center.		
	Heating oil AST within 2 metres of the potable water well.		
	Smoke'n'Tires.		
7	Old cars parked around the yard.		
	A drain in the moor under the noist, where maintenance on cars occurs, that drains into the ground. An Δ ST reportedly empty to the north of the building		
8	Former Marine Cas Bar		
9	Former Dumning Site		
102	Fueling AST present at the private residence of 84 Chibekana Inamo		
10a 10b	Fueling AST present at the private residence of 358 Ininatog Inamo		
100	Fueling AST present at the private residence of 174 Kokomis Inamo.		
100	Fueling AST present at the private residence of 225 A Kokomis Inamo.		
10a	Fueling AST present at the private residence of 242 Kokomis Inamo.		
106	Fueling AST present at the private residence of 276 Kokomis Inamo.		
101 10g	Fueling AST present at the private residence of 2/10 Kokomis Inamo.		
10g	Fueling AST present at the private residence of 70 Majibigan Inamo.		
101	Fueling AST present at the private residence of 1201 Michomis Inamo		
101	Fueling AST present at the private residence of 12.51 Mishomis Inamo.		
10j	Fueling AST present at the private residence of 1512 Mishomis Inamo.		
IOK	Reported oil changing activities old cars and snowmobiles fueling AST to the east of the private		
11	residence of 1296 Mishomis Inamo.		
12a	Debris noted at the private residence of 77 Chigagam Inamo.		
12b	Debris noted at the private residence of 358 Ininatag Inamo.		
12c	Debris noted at the private residence of 574 Ininatag Inamo.		
12d	Debris noted at the private residence of 648 Ininatag Inamo.		
12e	Debris noted at the private residence of 942 Ininatag Inamo		
12f	Debris noted at the private residence of 54 Kagagimin Inamo;		



Number on Drawing	Potential Environmental Concern		
12g	Debris noted at the private residence of 35 Kiwita Inamo.		
12h	Debris noted at the private residence of 99 Kiwita Inamo.		
12i	Debris noted at the private residence of 182 Kokomis Inamo.		
12j	Debris noted at the private residence of 480 Kokomis Inamo.		
12k	Debris noted at the private residence of 496 Kokomis Inamo.		
121	Debris noted at the private residence of 1251 Mishomis Inamo.		
12m	Debris noted at the private residence of 1358 Mishomis Inamo.		
12n	Debris noted at the private residence of 1463, Mishomis Inamo.		
120	Debris noted at the private residence of 1583 Mishomis Inamo.		
12p	Debris noted at the private residence of 43 Nopoming Inamo.		
12q	Debris noted at the private residence of 72 Nopoming Inamo.		
12r	Debris noted at the private seasonal cottage to the north of the trailer park.		
13	Kokomish Café and Gas Bar with 2 USTs.		
14	Current Landfill.		
15	Former railway tracks / suspect fill material.		
16	Former car crushing site / dumping area.		
17	Potential for radon gas.		

At PECs # 1, 3, 4, 6, 7, 8, 9, 13, 14, 15, 16, Stantec recommends the following:

- locate potential discharge areas for floor drains;
- construct secondary containment for all ASTs as a best management practice ;
- complete a follow-up site visit once the snow melts, to view the ground under and around the ASTs for any signs of impacts;
- remove the debris from PEC#9, take to the landfill for disposal, and monitor the area to prevent future illegal dumping;
- prepare and execute a landfill monitoring and sampling program to include at least annual monitoring and sampling of surface water and groundwater and reporting;
- implement a landfill operations and closure program;
- complete a Phase II ESA to assess the presence or absence of soil, sediment, groundwater, and surface water (if available) impacts in the vicinity of these environmental concerns. The scope of work for the Phase II ESA should include both boreholes and/or test pits and groundwater monitoring wells to enable an assessment of both soil and groundwater quality.

For PECs #1, 2, and 5, Stantec recommends:

• remove the materials impacted by mold, water staining, or animal feces, and repair any leaks that allowed water to enter the buildings.

For PECs# 10a to 10k and 11, Stantec recommends:

• construct secondary containment around all fueling ASTs as a best management practice;



• complete a visual inspection of the AST areas after the snow has melted for evidence of spills and or leaks from the tanks;

For PECs# 5, 11, and 12a to 12r, Stantec recommends:

- remove debris for appropriate disposal at the landfill;
- complete a visual inspection of the areas previously covered by debris once the snow melts for evidence of impacts from the debris.

For PEC #17, Stantec recommends:

• complete an indoor radon gas assessment as previously proposed by Stantec.

Based on the age of the community buildings, asbestos, PCBs, and lead containing materials may be present on the Site. A hazardous materials survey should be conducted to determine the presence or absence of asbestos, PCBs, or lead prior to any renovation or demolition of the community buildings. Suitable precautions and approved contractors should be used for all activities which may disturb hazardous materials.

We have not received information yet from the Ontario Ministry of the Environment (MOE) Freedom of Information and Protection of Privacy office. The information, if any, in the response from the MOE will be provided to the APFN.

The recommended scope of work for the Phase II Environmental Site Assessment based on each identified concern is as follows:

1) Maintenance Garage and Yard:

- Trace the termination point of the identified drain.
- Install four boreholes completed as monitoring wells surrounding the maintenance yard.
- Collect soil and groundwater samples for the following contaminants of concern (COCs): volatile organic compounds (VOCs), petroleum hydrocarbon (PHC) fractions F1 to F4, polycyclic aromatic hydrocarbons (PAHs), metals, electrical conductivity, sodium adsorption ratio, and chloride.

2) Fire Hall:

- Trace the termination point of the identified drain.
- Install two boreholes completed as monitoring wells.
- Collect soil and groundwater samples for the following contaminants of concern (COCs): VOCs, PHC F1 to F4, PAHs, metals, electrical conductivity, sodium adsorption ratio, and chloride



3) Smoke'n Tires:

- Trace the termination point of the identified drain.
- Install two boreholes completed as monitoring wells.
- Collect soil and groundwater samples for the following contaminants of concern (COCs): VOCs, PHC F1 to F4, PAHs, metals, electrical conductivity, sodium adsorption ratio, and chloride

4) Off-site gas bar:

- Install three boreholes completed as monitoring wells down gradient from the gas bar.
- Collect soil and groundwater samples for the following COCs: benzene, toluene, ethylbenzene, and xylenes (BTEX) and PHC F1 to F4.

5) Former dump area:

- Install four boreholes completed as monitoring wells surrounding the former dump area.
- Collect soil and groundwater samples for the following COCs: VOCs, PHC F1 to F4, PAHs, metals, and polychlorinated biphenyls (PCBs).

6) Former railway tracks/suspect fill:

- Install five boreholes completed as monitoring wells along the railway right-of-way.
- Collect soil and groundwater samples for the following COCs: VOCs, PHC F1 to F4, PAHs, metals, and PCBs.

7) Former car crushing/dumping area:

- Install four boreholes completed as monitoring wells surrounding the car crushing/dumping area.
- Collect soil and groundwater samples for the following COCs: VOCs, PHC F1 to F4, PAHs, metals, and PCBs.

8) Former marine gas bar:

- Install two boreholes completed as monitoring wells around the former marine gas bar.
- Collect soil, groundwater and sediment samples for the following COCs: BTEX and PHC F1 to F4.

Based on the above Phase II ESA scope of work, the opinion of probable cost ranges between **\$75,000 to \$85,000 (excluding HST).**



The recommended scope of work for the active landfill is as follows:

- Review all previous landfill monitoring reports.
- Prepare a proposal under a separate cover detailing the landfill monitoring and reporting program, operations and closure plan.

The statements made in this Executive Summary are subject to the same limitations included in the Closure (Section 9.0) and are to be read in conjunction with the remainder of this report.



INTRODUCTION March 7, 2014

1.0 INTRODUCTION

Stantec Consulting Ltd. (Stantec) was retained by the Algonquins of Pikwàkanàgan First Nation (APFN) to conduct a Phase I Environmental Site Assessment (Phase I ESA) of the Algonquins of Pikwàkanàgan First Nation Reserve (formerly #39, as described in the approved CLSR Plan #52200) located near Golden Lake, Ontario, herein referred to as the "Site". The APFN lands cover approximately 728 ha (1850 acres). At the time of the site visit, the Site was occupied by approximately 217 residential houses with heated garages and 14 community buildings owned by the first nation. The construction of the buildings varies from slab on grade, single storey houses to multi-level office buildings with basements. Asphalt-paved parking lots and throughways surround the community buildings and connect the residential houses. The majority of the Site is undeveloped wetland or forested land. The Phase I ESA was conducted as part of a transfer of management of the First Nation's lands and resources from the Government of Canada to the First Nation. The purpose of the Phase I ESA was to determine if evidence of potential or actual contamination exists at the Site, which may be present as a result of current or past activities on the Site or neighbouring properties.

Key and site plans are included in **Appendix A** and selected photographs of the Site are included in **Appendix B**.



SCOPE AND METHODOLOGY March 7, 2014

2.0 SCOPE AND METHODOLOGY

2.1 SCOPE OF WORK

The Phase I ESA carried out by Stantec on this property was conducted in general accordance with the Stantec Proposal dated December 6, 2013, the Canadian Standards Association's Phase I Environmental Site Assessment Standard Z768-01 (R2012), and consisted of the following:

- 1) Records review to evaluate historical and current information pertaining to the Site and adjacent properties, including:
 - Historical records review including, but not limited to, publicly available city directories, aerial photographs, and fire insurance plans
 - Request and purchase information from the Ontario Ministry of the Environment (MOE) Freedom of Information and Protection of Privacy Office pertaining to the Site
 - Request and purchase from EcoLog ERIS a standard database report for the Site and adjacent/neighbouring properties located within a 250 m buffer outside the property boundary
 - Request and purchase from Opta Information Intelligence Inc. any fire insurance records, inspection reports or site plans on file for the Site
 - Review of company records and previous environmental reports, if made available
 - Review records produced by the Algonquins of Pikwakanagan First Nation and AANDC
- 2) A site visit to assess actual/potential environmental contamination associated with the following (where applicable):
 - Current operations;
 - Waste generation;
 - Fuel, chemical and waste storage;
 - Building systems and equipment;
 - Exterior conditions including surface features, fill material, and wells;
 - Hazardous materials including asbestos, polychlorinated biphenyls, lead, urea formaldehyde foam insulation, and ozone-depleting substances;
 - Special attention items including radon, mold, electromagnetic frequencies, noise, and vibrations;
 - Potential off-site sources of contamination.



SCOPE AND METHODOLOGY March 7, 2014

Observations will be recorded to identify and describe each subject area. A differential GPS (DGPS) referenced to NAD 83 with +/-1 m accuracy will be used to field survey relevant site features and findings.

- 3) Interviews with persons associated with the Site (if available).
- 4) Evaluation of information and preparation of a report, prepared in English.

A Phase I ESA does not include sampling or analysis of air, soil, groundwater, surface water or building materials. For this Phase I ESA, no enhancements to the CSA standard were made.

This assessment did not include a review or audit of operational environmental compliance issues, or of any environmental management systems, which may exist for the Site.

The assessment of the Site for the potential presence of hazardous building materials was based on the age of the buildings and their components, and a non-intrusive visual review of the Site. No sampling of materials was conducted. A Phase I ESA does not constitute a Hazardous Materials Survey or Designated Substances Survey. Only the 16 community buildings were assessed for hazardous building materials. The 217 residential houses were not assessed.

The assessment of the Site for microbial contamination and moisture damage was made during the walk through of the community buildings. The residential houses were not assessed. No sampling or intrusive investigation was conducted.

The professional qualifications of the project team are provided in **Appendix C**.

2.2 METHODOLOGY

2.2.1 Records Review

The applicable search distance for the records review included the Site, properties immediately adjoining the Site and other neighbouring properties where activities considered to be potential sources of environmental contamination were apparent. Information sources obtained and reviewed as part of the records review are listed below:



SCOPE AND METHODOLOGY March 7, 2014

Summary of Records Reviewed			
Source	Information/Contact		
Aerial Photographs	1932, 1963, 1984, 1993		
City Directories	None available for the Site		
Fire Insurance Plans	None available for the Site – Opta		
Insurance Inspection Reports and Plans	None available for the Site – Opta		
Topographic Maps	Ontario Base Mapping, 2010. Ontario Ministry of Natural Resources		
Other Sources	EcoLog ERIS report dated January 22, 2014.		
	Ontario Ministry of Environment (MOE), Freedom of Information and		
	Privacy Protection Office.		
	MOE's Spills Action Centre.		
	MOE's Brownfield Environmental Site Registry		
	(Search date, February 19, 2014) MOE's Hazardous Wasta Information Natwork (HWIN)		
	(Search date: February 19, 2014)		
	Waste Disposal Site Inventory Database (1990)		
	The Water Well Information System (1955 and 2005)		
Company Records	Environmental Issues Inventory – Southern District Phase II – Golden		
	Lake First Nation (Golden Lake Reserve), dated April 1994. Report		
	prepared by CH2M Hill Engineering Ltd.		
	Phase III Environmental Issues Inventory Report, Golden Lake First		
	Solutions Inc		
	Environmental Screening Report Small Business Centre Part of Lot 36-		
	10, Plan 52200, IR No. 39, dated September, 2010. Report prepared by		
	Jp2G Consultants Inc.		
	Environmental Screening Report for Waste Transfer Station (RE-		
	<i>cycling)</i> . Report prepared by Algonquins of Pikwàkanàgan.		
	Alternative Landfill Site Study, dated May, 1986. Report prepared by R.		
	Caldan Laka Pasarya No. 3 Landfill Sitas Study datad Eabryary 1093		
	Report prepared by Kilborn Limited.		
	Phase I Assessment and Recommendations on Existing Reports and		
	Studies, dated March 6, 2013. Report prepared by Stantec Consulting		
	Ltd.		

Any previous environmental reports provided to Stantec are described in Section 5.0. In addition, available environmental databases and records were searched to determine if the Site, adjacent or neighbouring properties are listed. The databases and search results are presented in Section 6.0.

2.2.2 Site Visits

The Site visits were conducted by Brenda Thom, M.Sc. (Eng.), EIT, of Stantec between January 27 and 31, 2014. The Site and readily visible and publicly accessible portions of adjoining and neighbouring properties were observed for the presence of potential sources of environmental contamination. Stantec was accompanied by Danny Sarazin of APFN for three days, and Chantal Coburn of APFN for one day of the Site visits. The 14 community buildings assessed included: the church, elder's lodge, recreational center, daycare, health center, the APFN administration building, retirement home, cultural center/ museum, fire house, industrial center, commercial center, the municipal garage and the barn. Private



SCOPE AND METHODOLOGY March 7, 2014

houses and other community owned buildings were not assessed for building materials, but the heating fuel source and the presence of any debris on the land were noted. The Site was heavily snow covered at the time of the site visit; therefore, Stantec cannot provide any information on the presence/absence of surficial stains or other surface features.

2.2.3 Interviews

Interviews were carried out to obtain or confirm information on the historic operations and activities on the Site. Interviews were carried out to obtain or confirm information on the historical operations and activities on the Site. Mr. Sarazin was interviewed during the course of the Site visit.

Pertinent information gathered from the interviews is presented within the appropriate sections of this report.



REGULATORY FRAMEWORK March 7, 2014

3.0 REGULATORY FRAMEWORK

The Canadian Council of Ministers of the Environment (CCME) Canadian Environmental Quality Guidelines provide federal limits for contaminants in soil, sediment, and freshwater and are intended to maintain, improve, and/or protect environmental quality and human health at contaminated sites in general. Health Canada provides federal limits for contaminants in drinking water. Environment Canada has recently published interim groundwater quality guidelines for all uses of groundwater other than as a potable water source. These criteria include numerical values for the assessment and remediation of soil and water in the context of agricultural, residential/parkland, commercial, and industrial land uses.

In Ontario, the roles and powers of the Ministry of the Environment (MOE) when dealing with contaminated sites are outlined primarily in the Environmental Protection Act (R.S.O. 1990). The MOE has a mandate to address conditions where there is an adverse effect, or the likelihood of an adverse effect, associated with the presence or discharge of a contaminant. Ontario Regulation 153/04 – Records of Site Conditions, as amended, April 15, 2011, provides advice and information to property owners and consultants to use when assessing the environmental condition of a property, when determining whether or not restoration is required and in determining the kind of restoration needed to allow continued use or reuse of the site. The regulation includes generic numerical standards for soil and groundwater quality for specific land and groundwater uses. A Phase I ESA is an initial step in the site assessment process, which may lead to the requirement for restoration work if actual or potential sources of environmental contamination are identified.

While it is understood that the Site is federally owned, and therefore does not need to comply with Ontario Regulation 153/04 – Records of Site Conditions, as amended, if there are any parameters without federal criteria, Stantec will utilize the appropriate Ontario groundwater standards for comparison purposes only.

During a Phase I ESA samples are not collected; however, if there are recent previous soil or groundwater sample results available (i.e. less than two years for water and less than five years for soil), the results are compared to applicable federal and/or provincial regulations and guidelines.

A Phase I ESA also involves a review of site buildings for the potential presence of hazardous materials related to building components and materials. Specific federal or provincial regulations, guidelines or codes of practice exist for these individual hazardous materials. Where required, this documentation was utilized to determine appropriate conclusions and formulate appropriate recommendations.



SITE DESCRIPTION March 7, 2014

4.0 SITE DESCRIPTION

4.1 PROPERTY INFORMATION

The Site consists of 14 community use structures, approximately 217 residences and approximately 60 seasonal trailers. The Site is located at the eastern end of Golden Lake, along the south shore of the Bonnechere River, just south of the town of Golden Lake, Ontario. A summary of the Site information is presented below.

Property Information	Algonquins of Pikwàkanàgan Reserve, Pikwàkanàgan, Ontario	
Current Site Owner Government of Canada Aboriginal Affairs and Northern Development Canada		
Legal DescriptionAlgonquins of Pikwakanagan First Nation Reserve (formerly #39, as described in approved CLSR Plan #52200)		
Utility Providers	Water – Private and community wells Sanitary – Individual and shared septic systems Electricity –Ontario Hydro	

4.2 ON-SITE BUILDINGS AND STRUCTURES

A description of the structures occupied by APFN is given below.

Building Information (continued)			
	Our Lady of Nativity Church	Elder's Lodge	Fire Hall
APFN Use	Spiritual worship, community gatherings	Social gatherings, meetings, elections	Housing the First Nation Volunteer Fire Trucks
Building Footprint	~590 m ²	$\sim 520 \text{ m}^2$	~630 m ²
Date of Construction	1954, addition mid 1990s	2005	1980, addition in 1996
Number of Storeys ¹	One	One	Two
Basement	Yes ²	Yes ²	No

Note:

Number excludes basement level(s).

² Includes sub-basement and basement levels.

Building Information (continued)				
	Recreational Centre	Day Care	Health Centre	
APFN Use	Sporting activities, gym, change rooms	Child day care centre	Medical clinic, dental offices, mental health services	
Building Footprint	~3700 m ²	~2000 m ²	~1860 m ²	
Date of Construction	1999-2000	2000-2001	2000	
Number of Storeys ¹	One	One	One	
Basement	No	No	Yes	

Note:

Number excludes basement level(s), and includes mezzanines.



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Building Information (continued)				
APFN Band Office Maintenance Garage Kiji Works				
APFN Use	Offices	Storage and maintenance of roadway vehicles	Former wood working shop, currently vacant	
Building Footprint	~1840 m ²	~500 m ²	~160 m ²	
Date of Construction	1995	Mid to late 1990s	Early 1900s, part of former farmstead	
Number of Storeys ¹	Two	One	Two	
Basement	Yes	No	No	

Note:

1

Number excludes basement level(s), and includes mezzanines.

Building Information (continued)				
Retirement Home Cultural Building Industrial Center				
APFN Use	Full time care of 11 residents	Cultural Centre and Museum	Bingo Hall and Mundts Heating and Cooling	
Building Footprint	~1680 m ²	~65 m ²	~2325 m ²	
Date of Construction	2004	1990, reception area built in 2005	2012	
Number of Storeys ¹	One	One	One	
Basement	No	Yes	No	

Note:

1

Number excludes basement level(s), and includes mezzanines.

Building Information (continued)				
	Commercial Centre Landfill Storage Garage			
APFN Use	Retail space	Storage of electronic waste		
Building Footprint	~890 m ²	~56 m ²		
Date of Construction	2012	2009		
Number of Storeys ¹	One	One		
Basement	No	No		

Note:

1

Number excludes basement level(s), and includes mezzanines.

4.3 PHYSICAL SETTING

4.3.1 Surficial Geology

Based on the Ontario Geological Survey data presented in Stantec's *Phase I Assessment and Recommendations on Existing Reports and Studies, Hydrogeological Study Update Project,* prepared for the APFN and Ontario Clean Water Agency, dated March 6, 2013, the native surficial soils at the Site are composed of Quarternary unconsolidated sediments including: Precambrian bedrock, Precambrian bedrock drift complex, shield derived silty to sandy till, moraines, kames, eskers and crevasse fills, coarse-textured glaciolacustrine foreshore and basinal deposits and organic deposits. Based on available information from the Ontario Geological Survey, the overburden thickness in most locations within the



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study area is less than 6 m, but does occur in pockets in the south east corner between 10 and 17 m, in the northwest corner and near the bridge between 17 and 35 m.

4.3.2 Bedrock Geology

The bedrock geology of the study area can be sub-divided into the older and erosion resistant Precambrian rocks of Canadian Shield, and the younger Paleozoic sedimentary rocks. The Precambrian metasedimentary rocks dominate much of the study area and are composed of clastic and carbonate metasediments. Precambrian bedrock outcrops were previously observed in the north-western portion of the study area and along the shores of the Golden Lake. Paleozoic limestone and dolostone of the Gull River and Bobcaygeon formation is expected in the south-eastern portion of the study area and primarily underlying the thick moraine and esker complex. The bedrock geology information was taken from Stantec's hydrogeological study update, dated March 6, 2013, referenced above.

4.3.3 Topography and Regional Drainage

The natural drainage within the APFN appears to be influenced mainly by the Precambrian outcrops/knobs and bedrock topography. The APFN is drained by several streams and creeks that discharge to the Bonnechere River to the northeast and towards Golden Lake at the north and northwest. There are many wetlands and marshes in the central and southwest regions of the Site. The topography of the APFN is characterized by terrain exhibiting variable relief with topographic elevations lower around 169 metres above sea level (m ASL) in the immediate vicinity of Golden Lake. The surface elevations along the southwest and southeast boundary of the APFN varied from 207 m ASL to 171 m ASL near the Bonnechere River.

It should be noted that the direction of the shallow groundwater flow in limited areas can also be influenced by the presence of underground utility corridors and other factors and is not necessarily a reflection of regional or local groundwater flow or a replica of the Site or area topography. For example, there are numerous wetlands/swampy areas in the northern, eastern and western portions of the Site which could influence the Site's shallow groundwater flow direction.

4.3.4 Surface Water Drainage

The majority of the Site is covered by trees, small brush and marshes. Stormwater generally drains through infiltration and/or overland flow.



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5.0 PREVIOUS ENVIRONMENTAL REPORTS

APFN provided the following reports to Stantec for the completion of the Phase I ESA. A brief summary of each historical report is provided below.

Golden Lake, Reserve No. 3, Landfill Sites Study, dated February 1983. Report prepared by Kilborn Limited.

Kilborn Limited was retained by Indian and Northern Affairs Canada (INAC) to examine the conditions at the existing landfill site, associated waste handling techniques, and determine alternative landfill sites. The location of the landfill did not meet Provincial Standards as the waste was being dumped into a swamp. Recommendations from the MOE included: closure of the existing landfill and develop a new site in accordance with Provincial Standards. The landfill was situated on the side of an esker, in gently rolling terrain, and adjacent to a low lying swampy area that drains to the Bonnechere River. Two alternative sites were identified: Alternative Site 1 is located to the south of the esker adjacent to the existing landfill. This site would use an old borrow pit area. Alternative Site 2 is near the south limit of lot 28. The development of this site would require clearing and stripping of the vegetation, and transportation of material to prepare berms, access roads and to provide cover material. The third alternative was to modify operations at the existing site and expand to the east. The recommended alternative in order of preference was to modify the existing operations and expand to the east; develop an existing borrow pit to the south as a new site; prepare a new site on lot 28. Collection of waste is not required to be changed. Final placement, compaction and cover operations should be conducted monthly except during hot weather when covering is required bi-weekly.

Alternative Landfill Site Study, dated May, 1986. Report prepared by R. Cave and Associates Limited.

The report summarized the Kilborn report referenced above. In report, three alternate sites were identified and studied as alternatives and measures were suggested to keep the existing landfill operational. The possibility of keeping the existing landfill location operational was not approved by Environment Canada, Health and Welfare Canada and INAC, and the APFN had issues obtaining the lands of the alternative locations from the private owners. The APFN proposed a site on APFN owned land, located adjacent to the existing landfill. Cave and Associates was retained to examine the additional site for the possible use as a solid waste landfill, prior to construction of the new facilities. Historical information reviewed included: aerial photographs, a 1973 terrain evaluation report prepared by Terra-Scan Limited, MOE well records, a 1982 report entitled Landfill Sites Study, prepared by Kilborn Limited, and a topographic map. The APFN proposed landfill location was 1 hectare triangle shaped parcel located northwest of the existing landfill, bordered by the abandoned railway right of way to the north, existing landfill access road to the south and the existing landfill to the east. The recommendations of the report were: closure of the existing landfill, proceed with the development process of the proposed site, design and develop the new landfill using the trench method of disposing waste.



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Environmental Issues Inventory, dated April 1994. Report prepared by CH2M Hill Engineering Ltd.

Environmental issues previously identified in the K.L. Martin report (not available for review by Stantec) were asbestos present in the furnace room of the administration building and day care center; miscellaneous storage in the roads department building and fire hall; and leachate from the landfill impacting soil, groundwater and surface water along with possible gas generation and migration. Additional issues identified by CH2M Hill are: the former marine gasoline outlet located just northwest of the bridge, the hydro easement crossing the Site from southwest to northeast, and the former railway line curving across the reserve from the southeast to the west. Samples were collected from the surface water in the ditch along the former railway downgradient of the landfill. The samples exceeded the CCME criteria for parameters in general chemistry, metals, total and fecal coliform, PAH and herbicides. However, The total coliforms exceeded the holding time prior to laboratory analysis, the exceedance of iron and zinc could be naturally occurring in the surface water. Issues identified with the landfill location and construction include the nature of the contaminants, the lack of engineering or natural systems protecting the surface water, the proximity to surface water and drinking water wells, and the proximity of the landfill to residential land use. Recommendations included installing three monitoring wells downgradient of the landfill, sample soil and groundwater and comparing to CCME criteria, and determining groundwater flow direction from the water level data.

Environmental Site Assessment, Golden Lake First Nation Landfill Site, Golden Lake First Nation, Ontario, dated January 21, 1997. Report prepared by Aqua Terre Solution Inc.

The objective of this report was to determine the geological and hydrogeological conditions, to assess the type and extent of potential contaminants in the soil and groundwater due to the landfill, to determine if the ditch to the north has been impacted, and to document landfill operation conditions and assess landfill capacity and life. Seven boreholes were advanced, ranging in depth between5.75 and 10.75 m below ground surface, of which 5 were completed as monitoring wells with 3.05m screen lengths. Borehole locations include background, up-gradient, two downgradient of the waste pile, downgradient of the animal waste pit. Two boreholes were located in the waste pile to document the types of waste and the soil stratigraphy under the waste. Two surface water samples were collected down gradient of the landfill in the ditch on the south side of the former railway track. Exceedances of chromium and ammonia in surface water indicate impact from the landfill. Benzo(a) pyrene was found in one monitoring well exceeding the CCME drinking water standard. The landfill operations were found to be not meeting the following provincial requirements: no certificate of approval, low site security, no contingency planning nor operating procedure, and no monitoring and reporting program.

Phase III Environmental Issues Inventory Report, Golden Lake First Nation, Ontario, dated March 17, 1997. Report prepared by Aqua Terre Solutions Inc.

Determined that there was limited impact from the landfill from the samples collected. One soil sample collected exceeded the MOE Ontario Table A criteria for total petroleum hydrocarbon (TPH) gas/diesel range. Several parameters in groundwater exceeded the federal drinking water guidelines. AquaTerre noted that one or more of the groundwater contaminants may be coming from the former railroad tracks and not the landfill. Recommendations included developing a regular groundwater and surface water



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monitoring plan and to develop and implement a landfill operations and closure plan. Hydraulic conductivity calculations found the hydraulic conductivity to be in the range of 3.4×10^{-7} m/s to 4.3×10^{-6} m/s.

Phase I Environmental Site Assessment Small Business Centre, Part Lot 36-10, Plan 52200, IR No. 39, dated July 2009, prepared by Report prepared by Jp2G Consultants Inc.

This report was included in an appendix of the *Environmental Screening Report Small Business Centre*. The findings included dumping of garbage south of the property in the 1970s for approximately 2 years, with evidence of the waste observed during the site visit. Debris of old siding, wooden boards and tires were observed. Some car parts were observed at the former car crushing site, but no staining was observed. Debris was noted south of the property at the location of a reportedly former dumping ground in the late 1960s early 1970s. The recommendations did state that should any areas of impacted soil be encountered during development, that the impacted soil should be disposed in a suitable manner.

Environmental Screening Report Small Business Centre, Part of Lot 36-10, Plan 52200, IR No. 39, dated September, 2010. Report prepared by Jp2G Consultants Inc.

The environmental screen was conducted for the design and construction of a commercial building center with the building to be approximately 735 m² (7913 ft ²). The commercial building was planned to have a private well and private septic system. The lot was covered by small woody shrubs and grasses of a disturbed field. The report states a small car crushing operation was located on the lot in the late 1960s. No further information regarding the car crushing operation was provided.

Environmental Screening Report for Waste Transfer Station (Re-cycling). Report prepared by Algonquins of Pikwàkanàgan.

This form was filled out to propose a waste transfer station adjacent to the APFN landfill. The transfer station would be located on an existing road leading to the landfill, accessed by a new short section of road. The intent of the proposed transfer station is to reduce the amount of waste going into the landfill by removing the recyclable materials. The recyclable materials are proposed to be transported by Ottawa Valley Waste Recovery Center to the centralized facility for subsequent handling and shipment. The reported surficial geology consists of glacial till overlain by topsoil derived from forest leaf litter and deadfalls. Isolated ephemeral standing water was identified at the north end of the proposed site trapped by the abandoned rail alignment. Groundwater reportedly is monitored at a well located on the downslope of the landfill. The project site was identified as having poplar saplings, and balsam fir trees. Crows, woodpeckers were observed at the landfill in an April 24, 2008 site visit, and turkey vultures are reportedly present at the landfill. Bears have been reported at the landfill, and raccoons frequent the landfill. No fish habitat was observed, however, tadpoles were observed in the ephemeral water at the north end of the project site.



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Phase I Assessment and Recommendations on Existing Reports and Studies, dated March 6, 2013. Report prepared by Stantec Consulting Ltd.

Stantec reviewed historical information from APFN, MOE water well records, hydrogeological and watershed management publications and reports, geological and hydrogeological maps, air photos, soil survey reports, and other consultant reports. An electronic geo-spatial database was designed and developed to accommodate this data and enable the hydrogeological analysis. A conceptual understanding of site geology and hydrogeological conditions (presence of fault zones, lineaments, and other potential groundwater supply zones) was developed based on the above information sources. A water well survey and groundwater sampling program was completed where 116 well and 84 septic system locations were recorded. Stantec was able to speak with 89 residents and complete the survey questionnaire, and 36 groundwater samples were collected. Chloride concentrations exceeding the applicable standards were observed in existing private wells, and poor water quality was noted in the northwest subdivision, with high chloride, uranium and nitrate concentrations. To identify potential areas for water supply, bedrock lineaments were delineated by visual interpretation of a digital terrain model and a high resolution aerial photograph (1 m resolution aerial photo of the site provided by First Base Solutions Inc.) of the APFN. Based on a review of the surficial geology suggests the presence of esker deposits in the southeast and northeast portions of the Site which was affirmed by the specific capacity analysis. The southeast and northeast areas were designated as candidates for installation of test wells during the Phase 2 of the project. Recommendations included additional samples to be collected from residences with uranium concentration exceedances for analysis of radium 226, radium 228, lead, and Gross Alpha and Beta radiation. If the results of additional sampling indicate exceedances in both Gross Alpha and Beta Radiation, additional parameters such as lead 210, strontium 90, iodine 131, cesium 137, and tritium should be considered for further testing; additional groundwater sampling of all residences to identify the distribution of uranium in groundwater; three areas were identified as options for communal wells to service small groups of homes. A secondary off-site area and two more areas south of the APFN were identified.



ENVIRONMENTAL DATABASE/RECORDS REVIEW March 7, 2014

6.0 ENVIRONMENTAL DATABASE/RECORDS REVIEW

6.1 **REGULATORY INFORMATION**

6.1.1 Ontario Ministry of Environment

Regulatory Infractions Search: A request was made to the Ontario Ministry of Environment (MOE) through the Freedom of Information and Privacy Protection Office for a search of their records regarding charges and/or convictions of owners or tenants of the Site or violations of applicable environmental regulations issued against the Site.

Reportable Spill Occurrences: A request was made to the MOE's Spills Action Centre through the Freedom of Information and Privacy Protection Office for a search of their records of reportable spills occurring at the Site.

A copy of the request to the MOE is provided in **Appendix D**. A response from the MOE has not yet been received.

6.2 DATABASE INFORMATION/RECORDS

An EcoLog ERIS database report was requested for the entire APFN property plus a 250 metre radius, and is provided in **Appendix D**. The details of the database search results are provided below.

Anderson's Waste Disposal Sites (1860s to present)

A database of historical information characterizing the likely position of former waste disposal sites from 1860 to the present. In addition to historic waste disposal facilities, the database also identifies certain auto wrecking yards. The information was collected for research purposes only.

One entry in the database was identified on the Site. The Golden Lake First Nation Dump 1979 was identified as a Sanitary Landfill in 1979 south of the railway tracks and west of a Bonnechere River tributary, in the approximate location of the current landfill.

ERIS Historical Searches (EHS) (1999 to March 2013)

Ecolog ERIS compiled a database of environmental risk reports completed since March 1999. Available fields for this database include site location, date of report, type of report, and search radius.

Two entries were reported in the EHS database (one on-site and one off-site within 250 metres of the Site). The information reported within the ERIS EHS database is limited as it only indicates the report date, report type, search radius and the address of the site searched. These entries indicate that two other requests for database reports had been made in the past.



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Contaminated Sites

A search of the MOE's Brownfield Environmental Site Registry indicated that a Record of Site Condition (RSC) has not been filed for the Site based on an on-line search performed on February 19, 2014.

List of TSSA Expired Facilities

This is a list of expired facilities that fall under the Technical Standards and Safety Authority (TSSA) and the Fuels Safety Division, including private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, and piping systems.

Two entries in this database are located at 153 Kokomis Inamo, at the Kokomish Café and Gas Bar, the adjacent property to the northeast of the Site. Two full service liquid fuel tanks, registered to Karen Whalen at the Kokomish Café, are listed as being expired. No other details are provided.

Contaminated Sites on Federal Lands (June 2000 to January 2013)

The Treasury Board of Canada Secretariat maintains an inventory of known contaminated properties held by various federal departments and agencies. The inventory also includes non-federally owned properties for which the Government of Canada has accepted part or all of the financial responsibility with respect to the contamination on the property. The inventory provides information concerning the company name, location, site ID number, property use, classification, current status, contaminant(s) of concern, and plan of action for site remediation. Each property is classified according to the Canadian Council of Ministers of the Environment National Classification System (NCS) for contaminated Federal lands.

A review of the Federal Contaminated Site Inventory (FCSI) indicated there are two entries on the Site that the Treasury Board of Canada Secretariat has identified as a contaminated site on federal land.

Both entries in the FCSI database are located at the same location south of Nopoming Inamo west of Mishomis Inamo. Each area was given a longitude, latitude, area number and site ID for identification purposes.

- Latitude: 45.563957, Longitude –77.237723 (Entry 1, Site ID 00003720):
- No information was provided about this contaminated site other than it has been identified as a suspect site.
- Latitude: 45.563967, Longitude: -77.237713 (Entry 2, Site ID 00006305):
- Soil, no quantity was reported, is anticipated to be impacted with heavy metals and other contaminants at this location. No action plan or additional information concerning this location was reported in the inventory.



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<u>Ontario Ministry of the Environment – Ontario Regulation 347 Waste Generators Summary (WGS) (1986</u> to July 2013) and the Ministry of the Environment's Hazardous Waste Information Network (HWIN) (current)

The WGS identifies sites/equipment and/or operations involved in the production, collection, handling and/or storage of regulated wastes. The database contains information on the registration number, company name, and address of registered generators.

The search of the WGS indicated that Health Canada – Algonquins of Golden Lake Health Center and Public Health Agency of Canada are registered as generators of hazardous wastes at the Site. Two generator numbers were identified to be associated with the medical center located at 1643 Mishomis Inamo.

Generator No. ON8728331 was in use for 2010. Hazardous waste generated under this generator number is pathological waste.

Generator No. ON8659461 was in use since 2010, 2011, and since July 2013. Hazardous waste generated under this generator number includes pathological waste.

Based on discussions with the doctor at the medical center, the 'sharps' hazardous waste is kept separate from the other waste and is removed on an as needed basis by a licensed hauler.

Based on the type of on-site hazardous waste generation, the duration of hazardous waste production and the potential for environmental impacts, it is unlikely that the storage and transfer of these wastes has adversely impacted the Site.

Ontario Water Well Information System (1955 to May 2009)

According to the database report, there are 96 on-site water wells at the APFN Reserve and 27 wells within 250 m of the Site boundaries. UTM coordinates are given to identify the well's location on-site, as well as the construction date, the depth of the well, the depth at which bedrock was reached, and the surficial materials encountered during the advancement of the well.

The well records report that the wells were constructed between 1965 and 2012 ranging in depth from 7.6 metres below ground surface (m bgs) to 122 m bgs. Ninety-eight wells were recorded for domestic use, six wells for each public use and not listed use, and one commercial well, and one municipal well. Approximately two wells are recorded as being in overburden, 106 in bedrock and four wells did not have information about well construction. Eleven wells were identified but did not list any information or stated that the well was abandoned.



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7.0 FINDINGS

The following is a summary of observations made during the site visit and interviews conducted while onsite.

7.1 CURRENT SITE OPERATIONS

Building ID and Current Use	Concern			
Nativity Church	An AST for heating oil is present in the basement on the west side of the building. No staining was observed on the dirt floor under the AST. No secondary containment was observed. No concerns are associated with the Church.			
Elder's Lodge	An AST for heating oil is present in the basement at the southeast corner of the building. No staining was observed on the concrete floor under the AST. No secondary containment was observed. No concerns are associated with the Elder's Lodge.			
Fire HallJerry cans, containers of fire suppressant foam, anti-freeze and pails of oil are located with both the main fire hall and the truck garage. See Photos # 1 and 2 in Appendix B. A dra present under the fire truck in the fire hall, Photos 3 and 4, Appendix B, and it was not 1 where the drain discharges. Within the firehouse attached at the south side of the garage, evidence of water damage was observed on the second story and mold was observed on the ceiling of the Fire Hall. See Photos #5 and 6 in Appendix B.The presence of a drain under the fire truck, which the discharge location is unknown, is potential environmental concern and the mold on the ceiling of the fire hall is a concern.				
Recreation Center	An AST for heating oil is present in the furnace room, along the northeast side of the building. No staining was observed on the concrete floor under the AST. No secondary containment was observed. No concerns are associated with the Recreation Center.			
Day Care CenterThe AST for heating oil was replaced in the fall of 2013. The building is now heated propane. No staining was observed on the concrete floor at the location of the form No concerns are associated with the Day Care Center.				
Health Center	Two ASTs for heating oil are present in the basement fueling three furnaces. No staining was observed on the concrete floor under the ASTs and secondary containment concrete berms were in place around each tank. A leaking roof was reported in the stairwell east of the entrance. Sharps waste is collected by a licensed waste hauler and disposed off-site.			
APFN Band OfficeA heating oil AST is present at the northeast corner of the basement near the garage staining was observed on the concrete floor under the AST. No secondary containmed observed. 				
Maintenance Garage	Two ASTs are present at the southwest corner of the property, reportedly owned by Mundt's Heating and Cooling, one containing gasoline and one diesel. No secondary containment was observed. See Photo 13 in Appendix B . Two ASTs are present at the northeast side of the property: one is reportedly empty and one			



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Building ID and Current Use	Concern
	 contains diesel for use by the maintenance trucks. No secondary containment was observed. See Photo 14 in Appendix B. Two heating oil ASTs were observed in each side of the garage (Municipal side and APFN side). See Photos # 15 and 16 in Appendix B. No secondary containment was observed. Numerous oil pails, with varying amounts of oil, were observed in the southwest corner of the building. These oil pails are used to change the oil in the machines used for maintenance on the reserve. Staining was observed on the concrete floor around the pails. See Photos # 17 and 18 in Appendix B. Used oil from oil changes is reportedly stored in a used oil tank located to the northwest of the building; however, the used oil tank was not observed during the site visit. Old oil pails were observed along the north side of the maintenance garage; see Photo 19 in Appendix B. Floor drains on each side of the garage reportedly drain to a dry well to the northwest of the building. No oil-water separator was identified between the drains and the dry well. See Photos 19 and 20 in Appendix B. Two salt/ salt and sand storage sheds are present to the north and northeast for the maintenance garage contains salt for the APFN and municipality's uses, whereas the storage shed to the north contains sand for APFN use, and a salt and sand mixture for the municipality's use. The fuel ASTs without secondary containment, oil pails with staining on the floor, and drains discharging to a dry well are identified as environmental concerns. Based on Stantec's previous assessments of works yards, there is still a potential for salt impacts outside of the salt storage
Kiji Works Barn (former barn of old farmstead, and former location of woodworking	On the floor of the second story water damage, mold and animal feces were observed. See Photos 21 and 22 in Appendix B . Debris was observed on the second floor at the east end of the building. See Photo 23 in Appendix B . In two open barns to the east of the log barn, debris was observed consisting of broken glass and garbage.
shop)	The animal feces, and evidence of mold are a health risk to humans working in the building. A heating oil AST is present at the northeast corner of the building. No staining was observed
Home	on the concrete floor under the AST. No secondary containment was observed. No environmental concerns are associated with the retirement home.
Cultural Center	A heating oil AST is located in the basement near the southeast corner. No staining was observed on the concrete floor under the AST. No secondary containment was observed. No environmental concerns are associated with the Cultural Center.
Industrial Center	One heating oil AST is present in the furnace room of the bingo hall, northeast corner, which was not observed due to the furnace room being locked. However, the presence of the tank was identified due to the fill and vent pipes observed on the east side of the building. Jerry cans and oil pails were observed in the back room of Mundt's Heating and Cooling. However, no staining was observed on the concrete floor under the pails and jerry cans. See Photos 24 and 25 in Appendix B .
Commercial Center	One nonmetallic exterior heating oil AST was observed at the southwest corner of the Commercial Center. No secondary containment was observed. Reportedly all four units are heated by the one furnace located in the unit at the west end of the building. The exterior AST is located within 2 m of the potable water well also located at the southwest corner of the building. The proximity of the AST and well are shown in Photo 26 in Appendix B . The proximity between the AST and the well is an environmental concern.
Landfill Storage Garage	There are no concerns associated with the landfill storage garage.
Smoke ' n' Tires	A privately owned auto garage with a hoist, abandoned cars and ASTs. The two ASTs observed on the property, one was converted to a BBQ, the second, at the end of the trailer used for



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Building ID and Current Use	Concern		
	storage, is reportedly empty waiting another use, see Photos 27 in Appendix B . Used oil containers and oil filters are placed in bins which are disposed of in Eganville.		
	A small hoist is present in the garage with the hydraulic oil in a small container on the hoist, Photo 28, Appendix B .		
	A drain that reportedly discharges into the ground was observed in the center of the garage area and represents a potential environmental concern. See Photo 28 in Appendix B .		
Private Residences	Debris was noted on the following private properties: 77 Chigagam Inamo; 358, 574, 648, 942 Ininatag Inamo; 54 Kagagimin Inamo; 35, 99 Kiwita Inamo; 182, 480, 496 Kokomis Inamo; 1251, 1296, 1358, 1463, 1583 Mishomis Inamo; 43, 72 Nopoming Inamo and at seasonal cottages to the north of the trailer park. The debris observed included: piles of metal, old ASTs, building materials, old cars and snowmobiles, garbage or recyclables, old tires, batteries, solvents, and plastic drums. See Photos 29 to 50 in Appendix B .		

7.2 HISTORICAL LAND USE

Historical land use for the Site was determined through historical records listed in Section 2.2.1. A summary of the historical information is presented below. The legal description used for the Site was collected from the Terms of Reference issued by the APFN, which was identified as formerly #39, as described in the approved CLSR Plan #52200.

	Summary of Historical Information			
	Year Range	Land Use		
1.	1900s to 1930s	According to previous reports and site interviews, a lumber mill site, located at the northwest corner of the Site, was in operation. The lumber mill was used for cutting of logs floated across Golden Lake, and transferred to railway cars on the APFN reserve. No preservation of the lumber occurred. The power source of the lumber mill is unknown, but based on the time frame and possible extent of operation; the saws were likely hand operated.		
2.	1932	According to the 1932 aerial photograph the APFN lands were vacant. The remnants of the lumber yard and train tracks are present. Kokomis Inamo, Mishomis Inamo, Chibekana Inamo, and Nopoming Inamo roadway bases are present. Very few buildings are present, the farmstead, where the current Kiji Works barn is present, as well as farmsteads on Nopoming Inamo are evidenced by agricultural land pockets surrounded by undeveloped treed land. The land was used for agricultural purposes, or was forested and undeveloped.		
3.	1963	According to the 1964 aerial photograph houses appear along Mishomis Inamo, Kokomis Inamo, and Chibekana Inamo. The farmsteads along Nopoming are no longer present and the lands are now tree covered. The hydro easement is visible cutting through the Site from the southwest to the east. The majority of the Site is forested land, with some agricultural lands at the western corner of the Site.		
4.	1960s to 1970s	Based on previous reports and site interviews, an old dumping site was illegally used at the south eastern boundary of the First Nation, at the south end of Mishomis Inamo. Former car crushing activity and dumping of waste occurred at the south east corner of the current commercial center. The duration of activity was not reported.		



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	Summary of Historical Information				
	Year Range	Land Use			
5.	1984	According to the 1984 aerial photograph, more houses are present along Kokomis Inamo, Mishomis Inamo, Chibekana Inamo, and Pakwanagemag Inamo is constructed and the west end of Kagagimin Inamo is constructed with houses present. The western corner is forested with trees having grown over the agricultural lands. The current landfill is present at the east end of Ininatig Inamo, and a small sand pit is present.			
6.	1993	According to the 1993 aerial photograph, more houses are present along Kokomis Inamo, Mishomis Inamo, and Chibekana Inamo. Shinwak Inamo, Pakwanagemag Inamo, Kagagimin Inamo, and Kiwita Inamo are constructed and houses are present on all of the roads. The sand pit and landfill are both still present and appear active.			
7.	Currently on-site	The current on-site structures include 217 residences (including cottages), approximately 50 trailers, a church, Elder's lodge, fire hall, recreation center, day care center, health center, APFN Band office/administration building, retirement home, cultural center/museum, fire house, industrial center, commercial center, municipal garage, Kiji Works barn, and landfill storage garage. A landfill and sand pit are present and the smaller sand pit is not currently in use. The Kokomish Café and gas bar are present at the intersection of Kokomis Inamo and Mishomis Inamo. A privately owned mechanic shop is present at 443 Kokomis Inamo.			

7.3 WASTE GENERATION

7.3.1 Solid and Liquid Wastes

Mr. Sarazin reported that domestic wastes, brush, and construction materials produced at both community buildings and private residences are transported to the landfill located at the southeast end of Ininatig Inamo. Recyclable materials from both community buildings and private residences are collected and transported to a transfer station at the landfill. The recyclables are transferred to a recycling facility in Pembroke.

A former dumping site, shown in Photo 70, **Appendix B**, is present at the south end of Mishomis Inamo, at the edge of the APFN reserve. According to Mr. Sarazin, domestic waste from both on the reserve and off the reserve was illegally dumped at this property for the last 20 years. This area is currently a car turnaround area; however, the waste can still be seen, when not covered by snow.

Reportedly, waste oil from the Maintenance Garage and the privately owned mechanic shop are removed and disposed off-site by a licensed hauler.

Sharps waste in the Health Center are stored separately from other waste, and collected and disposed by a licensed hauler on an as needed basis.

7.3.2 Wastewater Discharges, Drains and Sumps

The majority of the Site's domestic wastewater was reported to discharge to individual septic systems. The drains in both the maintenance garage and the private mechanic shop (Smoke'n'Tires) discharge to dry



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wells in the subsurface. The outlet of the sumps in the administration building, as wells as the outlet of the drain in the fire hall, are unknown.

7.3.3 Air Discharges and Odours

No sources of air emissions that are suspected to result in residual contamination to the property were identified to be present on the Site. Further, no strong, pungent, or unusual odours were identified during the site visit.

7.4 FUEL AND CHEMICAL STORAGE

7.4.1 Fuel Aboveground Storage Tanks (ASTs):

Of the 217 residences, approximately 146 residences have oil ASTs either interior (evidenced by fill and vent pipes on the exterior of the building), or exterior tanks. The tanks were not inspected, merely noted if present and if any staining was observed. Approximately 25 residences had propane tanks, ranging in number from one to four per residence. Approximately 14 residences had gasoline and / or colored diesel ASTs on their property. The private residences with ASTs for car fuel include: 84 Chibekana Inamo; 358 Ininatag Inamo; 174, 225 A, 242, 276, 341A Kokomis Inamo, 70 Majihigan Inamo; 1291, 1296, 1312, 1511 Mishomis Inamo. The refueling ASTs do not have any secondary containment surrounding them. Photos of the ASTs are located from Photo 51 to 63 in **Appendix B.** A former Marine Gas bar was noted in a previous report, and according to Mr. Sarazin the ASTs were removed in 1994. The former Marine Gas Bar location is presented in Photo 64 in **Appendix B.**

Building Name	AST Location	Construction/Capacity/ Age	Contents/Use	Concerns
Nativity Church	In basement on the west side of the building.	910-litre capacity steel AST. The age of the tank is unknown.	Contains heating oil to heat the church.	No secondary containment around the tank. The tank is leveled on patio stones above the soil floor.
Elder's Lodge	In the basement, on concrete floor, in southeast corner.	910-litre capacity steel AST. The age of the tank is unknown.	Contains heating oil to heat the lodge.	No secondary containment around the tank. Storage around the tank.
Recreation Center	In the furnace room, along the northeast wall.	910-litre capacity steel AST. The age of the tank is unknown.	Contains heating oil to heat the recreation center and fuel the hot water heater.	No secondary containment around the tank.
Day Care Center	Three exterior ASTs on the southeast side of the garage.	Capacity of propane tanks unknown. The new furnace was installed in fall of 2013.	Contains propane to heat the building and hot water.	No concerns associated with the propane ASTs.

A summary of the ASTs present at the community buildings is provided below.



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Building Name	AST Location	Construction/Capacity/ Age	Contents/Use	Concerns
Health Center	Two ASTs in the basement in the furnace rooms.	Two 910-litre capacity steel ASTs. The age of the tanks is unknown. Secondary containment consists of concrete berms surrounding the ASTs.	Contains heating oil to heat the building and hot water.	No concerns associated with these ASTs.
	In the basement at the northeast corner, near the garage door.	910-litre capacity steel AST. The age of the tank is unknown.	Contains heating oil to heat the building and hot water.	No secondary containment around the tank. A sump is located within 3 m with the tank, with the outlet of the sump unknown.
APFN Band Office	Three exterior propane tanks located just to the south of the building.	The capacity, construction and age of the tanks are unknown.	Contains propane for the emergency generator.	No concerns associated with the propane tanks.
	Two large exterior ASTs are present to the south of the Band office across the parking lot.	The capacity, construction and age of the tanks are unknown.	One tank contains gasoline and the other contains diesel to fuel APFN vehicles.	The base of the tanks could not be observed as snow was present. No secondary containment was observed.
	Along the northeast wall in each side of the garage (municipal and First Nation sides).	Two 910-litre capacity steel single wall ASTs. The age of one tank is November 2006, whereas the age of the second AST is unknown.	Contains heating oil to heat each side of the garage.	No secondary containment around the single walled ASTs. Storage of recycling bins around AST in municipal side of garage.
Maintenance Garage	Two large ASTs located at the southwest corner of the property.	The age, construction and capacity of the fuel ASTs are unknown.	The ASTs reportedly contain gasoline and diesel. Used by Mundt's Heating and Cooling to fuel their trucks.	The base of the tanks could not be observed as snow was present. No secondary containment was observed.
	Two large ASTs located at the northeast fence at the back of the property.	The age, construction and capacity of the fuel ASTs are unknown.	One AST is reportedly empty. The second AST contains diesel to fuel the maintenance trucks.	The base of the tanks could not be observed as snow was present. No secondary containment was observed.
Retirement Home	In the furnace room at the northeast corner of the building.	910-litre capacity, single wall, steel AST. The tank was manufactured in November 2009.	Contains heating oil to heat the building and hot water.	No secondary containment around the single walled tank.



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Building Name	AST Location	Construction/Capacity/ Age	Contents/Use	Concerns
	One large exterior propane tank location east of the northeast corner of the building.	The capacity, age and construction of the propane tank are unknown.	Contains propane. Not sure of the use.	No concerns are associated with the propane AST.
Cultural Center	In the basement near the southeast corner of the building.	910-litre capacity steel AST. The age of the tank is unknown.	Contains heating oil to heat the building.	No secondary containment around the tank.
Industrial Center	One AST in the furnace room of the Bingo Hall.	The tank was not observed, no access to the bingo hall furnace room.	Contains heating oil to heat the bingo hall.	Would need to see the tank to determine if concerns exist.
Commercial Center	One exterior AST at the southwest corner of the building.	909-litre capacity, non- metallic, single wall AST. The tank was manufactured in 2012.	Contains heating oil to heat all the units in the commercial building.	Within 2 metres of the drinking water well. No secondary containment around the tank.

7.4.2 Storage Tanks Underground Storage Tanks (USTs):

Based on interviews and site observations, no underground storage tanks were identified on the Site.

7.4.3 Storage Containers

Various chemicals including: fire retardant foam, water softening salt, oils and lubricants, and cleaning supplies were stored throughout the Site. Cleaning supplies were stored in each building, in the furnace room or other designated storage areas. Further information on this storage is included in the table below.

Building Name	Content	Construction/ Capacity	Approximate Quantity	Location
Fire Hall	Foam Liquid Concentrate	19 L blue plastic totes and approximately 20 L white plastic drums.	Approximately 6 of each the white and blue totes. Approximately 7 presumed empty white drums were observed.	Along the dividing wall between garages in the fire hall. Photo 1 in Appendix B.
Retirement Home	Premium Rock Water Softener Salt	20 kilogram bags	Approximately 13 bags stored on the concrete floor.	In the furnace room, in the northeast corner of the building. Photo 66, Appendix B.
Maintenance Garage	Road salt	Two sheds with concrete floors with corrugated metal walls and ceiling.	Unknown.	To the northeast and north of the Maintenance garage.



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Building Name	Content	Construction/ Capacity	Approximate Quantity	Location
Industrial Center	Lubricants and cleaners	Various sizes	12-15 bottles of various sizes.	On a shelf in the work room at the south east side of the building. Photos 24 and 25, Appendix B.
Smoke'n'Tires	Empty oil containers and used oil filters	Various sizes	Large volume	To the south of the building. Photo 67, Appendix B.

7.5 BUILDING SYSTEMS AND EQUIPMENT

7.5.1 Heating and Cooling Systems

Site heating is supplied, for the most part, by individual furnaces in each of the buildings. The commercial center has one furnace for all four units, whereas the Industrial Center has a furnace in the Bingo Hall, and another in Mundt's Heating and Cooling. The Maintenance Garage has a furnace in each the APFN half and the Municipality's half of the garage. The APFN Band Office, medical center, cultural center, fire hall, Kiji building and retirement home all have individual heating systems, and the APFN Band office, medical center , cultural center, and retirement home have central air conditioning units. The landfill storage garage does not have heat; the attendant burns wood in an open 50 gallon drum to stay warm in the winter. Individual residences have heating systems in each building.

7.5.2 Hydraulic Equipment

No hydraulic equipment related to building systems were identified in the community buildings. A hydraulic hoist was observed in the Smoke'n'Tires garage; however, the hydraulic oil reservoir was on the hoist and not underground, and no staining was observed around the hoist. The interior of the garage is present in Photo 28 in **Appendix B**.

7.6 EXTERIOR SITE OBSERVATIONS

7.6.1 Surface Features

At the time of the Site visits, the Site was heavily snow covered and surface features could not be assessed. However, staining was noted in the garage behind the APFN Band Office, Photo 12 in **Appendix B**, on the wall behind fill and vent pipes at 1586 Mishomis Inamo, Photo 65 in **Appendix B**, under the oil pails in the Maintenance Garage, Photo 18, **Appendix B**, and around the drain in the Maintenance Garage, Photo 16 in **Appendix B**.

7.6.2 Fill Materials

Fill of unknown quality would have been used as the base of the railway tracks crossing the Site. The source of this fill is unknown. No evidence of imported fill materials was observed in the majority of the Site as the site was snow-covered; however, it is possible that fill was used on the Site during its



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development. The source of any fill which may have been used on the Site during its development is likely the sand pit located near the landfill, or the former sandpit, shown on Drawings 2 and 3 in **Appendix A**. However, off-site sources of fill are also possible.

7.6.3 Wells

Potable water at the Site is obtained through wells. Some residences share a well, but most buildings on the Site have a dedicated well for water use. Monitoring wells are present around the landfill, but were not observed during the Site visit. According to the Ecolog ERIS report, 96 wells were identified on the Site. UTM coordinates are given to identify the well's location on-site, as well as the construction date, the depth of the well, the depth at which bedrock was reached, and the surficial materials encountered during the advancement of the well. See Section 6.2 above for more information.

7.7 HAZARDOUS BUILDING MATERIALS

The following substances are regulated through federal or provincial regulations and may represent a health concern, and/or require proper handling, storage and disposal. A description of the history of each material and the applicable governing regulations is provided in each of the following subsections.

7.7.1 Asbestos-Containing Materials (ACMs)

The common use of friable (crumbles easily by hand pressure) asbestos-containing materials (ACMs) in construction generally ceased voluntarily in the mid-1970s but was only banned through legislation in the mid-1980s. Asbestos was used in thousands of building products and the common uses of friable ACMs included boiler and pipe insulation and spray-on fireproofing. Asbestos was also used in many manufactured products such as floor tiles, ceiling tiles, transite cement products, and various other construction materials. Some cement drain piping currently used in construction of buildings still contains asbestos (non-friable). Vermiculite used as insulation may be contaminated with asbestos fibers.

Based on the ages and observed construction of the community buildings, ACMs may be present. As stated above, the individual residences were not inspected for ACMs. ACMs were identified in the K.L. Martin report in the admin building and day care. Based on construction dates of the current Band Office and day care centre, this report must be referring to the former administration building and daycare. Based on the age of the church, built in 1954, and in the Kiji Works Barn, built in the early 1900s, it is possible these buildings could contain ACMs.

As of November 1, 2005, Ontario has introduced a new asbestos regulation (Ontario Regulation 278/05 made under the Occupational Health and Safety Act) obligating owners to implement an Asbestos Management Program (AMP) at their facilities if friable or non-friable asbestos is known or suspected to be present. A component of the AMP requires the preparation of an asbestos record to identify locations of confirmed or suspected asbestos-containing materials (ACM). Based on these requirements, it is recommended that an assessment to identify the locations of known or suspected asbestos-containing materials be undertaken at the Site. Should friable or non-friable ACMs be identified or presumed to be present, an Asbestos Management Program should be implemented. Asbestos surveys of buildings



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(including additions) constructed prior to 1990 should include all suspected friable and non-friable building materials. Surveys of buildings (and additions) constructed in 1990 or later can be limited to cement-based non-friable materials and gasket materials. Asbestos surveys undertaken for the Site completed prior to November 1, 2005, should be reviewed and reassessed to determine if it meets the requirements of O. Reg. 278/05.

7.7.2 Polychlorinated Biphenyls (PCBs)

From the 1930s to the 1970s, PCBs were widely used as coolants and lubricants for electrical equipment, including transformers and capacitors, and in a number of industrial materials, including sealing and caulking compounds, inks, and paint additives. The use of PCBs was prohibited in heat transfer and electrical equipment installed after September 1, 1977, and in transformers and capacitors installed after July 1, 1980. Regulations now require that PCB containing equipment be taken out of service prior to regulated deadlines.

No oil-filled transformers were observed on the Site. The community buildings use fluorescent light fixtures. However, PCB-containing ballasts are not expected based on the age of the more current buildings. The original fluorescent light fixtures have likely been removed during renovation activities subsequent to the original construction. Therefore, PCB-containing ballasts may be in any remaining original fluorescent light fixtures. The residences were not inspected for PCBs.

7.7.3 Lead-Based Products

In 1976, the lead content in interior paint was limited to 0.5% by weight under the federal Hazardous Products Act. Lead based water supply pipes were used more than 50 years ago. Between 1930 and 1986, most buildings used copper pipe with lead-solder joints. Other lead-based products include wall shielding (x-ray rooms).

Based on the ages of the community buildings, lead-based products may be present. The individual residences were not inspected for lead products.

7.7.4 Urea Formaldehyde Foam Insulation (UFFI)

Urea formaldehyde foam insulation (UFFI) was used as an insulation product for existing houses between the mid-1970s and its ban in Canada in 1980. It was not commonly used for commercial or industrial buildings.

Based on the type of the community buildings, it is unlikely that UFFI is present and no evidence of the application of UFFI was observed at the time of the Site visits. Individual residences were not inspected for UFFI.


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7.7.5 Ozone-Depleting Substances (ODSs)

Refrigeration and air conditioning equipment in place before 1998 may contain refrigerants containing ozone-depleting substances (ODSs). Non-ODS refrigerants have been developed and are available to replace these materials in newer equipment.

Sources of ODSs within the community buildings are limited to minor quantities of refrigerant in central air conditioning units and domestic refrigerators. The individual residences were not inspected.

7.8 SPECIAL ATTENTION ITEMS

Stantec reviewed the Site for the potential presence of the following items during the site visit. These materials are not regulated. However, through limited research and heightened awareness, these items have been identified to potentially pose an environmental concern with respect to adverse effects on human health.

7.8.1 Radon Gas

Radon is a radioactive gas associated with uranium-rich black shale and/or granite bedrock. Radon emits alpha particles and produces several solid radioactive products called radon daughters. Harmful levels of radon and radon daughters can accumulate in confined air spaces, such as basements and crawl spaces.

Based on the geology of the area as stated above, and the general construction of the community buildings with no basement levels, radon gas is not anticipated to be an environmental concern to the Site. However, based on the potable water survey completed by Stantec in 2012 and 2013, high uranium levels (at or greater than 20 μ g/L) were identified in the northwestern housing development. Stantec has submitted a proposal for a radon study on the Site.

7.8.2 Mold

The growth of mold in indoor environments is typically due to a moisture problem related to building envelope or mechanical systems deficiencies or design, and can produce adverse health effects. There is no practical way to eliminate all mold and mold spores in the indoor environment. The way to control mold is to control moisture.

No visual evidence of suspected indoor mold growth was observed on the Site as the time of the site visits, with the exception of mold present in the fire hall and the Kiji Works barn. In the garage area of the Fire Hall, mold and water damage was observed on the ceiling along the west wall. In the residence at the back of the fire hall, water damage was visible on the floor of the second story outside the bathroom, as observed in Photos 5 and 6, **Appendix B.** Water damage and mold were visible on the ceiling and the floor at the west end of the second story in the Kiji Works building, photos 21 and 22, **Appendix B**. A leak was also reported in the stairwell east of the front doors of the Health Center. No visible water damage or mold was visible on the ceiling or walls of the stairwell. The roof above the stairwell was replaced and no subsequent leaking has been reported.



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7.8.3 Electromagnetic Frequencies (EMFs)

Electrical currents induce electromagnetic fields. No scientific data supports definitive answers to questions about the existence or non-existence of health risks related to electromagnetic fields.

A hydro easement runs across the Site from the southwest corner to the northeast corner, as shown on Drawing 2, **Appendix A.**

7.8.4 Noise and Vibration

The effects of noise and vibration on human health vary according to the susceptibility of the individual exposed, the nature of the noise/vibration and whether exposure occurs in the working environment or in the home.

No major or persistent sources of noise and vibration were identified to be present on or adjacent to the Site at the time of the site visit.

7.9 NEIGHBOURING PROPERTIES

The current activities on neighbouring properties observed at the time of the site visit and a summary of historical information gathered through the records review are presented in the following sections.

7.9.1 North and Northwest

To the northwest of the Site is the south shore of Golden Lake. The Bonnechere River is located north of the Site.

7.9.2 West, Southwest and South

Based on aerial photographs, the properties to the west, southwest and south of the Site are undeveloped forested lands that were historically used sporadically for farmland. There may be current residences on the properties, but with little development surrounding them.

7.9.3 East

Based on aerial photographs the Bonnechere River is adjacent to the Site to the East. On the other side of the River there are residences, seasonal cottages and the Town of Golden Lake.

7.9.4 Northeast

Based on site observations and site interviews, the property to the northeast of the Site, located at 153 Kokomis, is the Kokomish Café and Gas Bar. The APFN land surrounds the café and gas bar. Currently there is a café and gift shop and a gas bar with two USTs: one for gasoline and one for diesel. The building is heating using heating oil, with the AST located at the southeast corner of the building. The AST was not inspected as there were materials stored around the tank. Cooking appliances are fueled with propane, with the ASTs present along the east side of the building. Waste cooking oil from the deep fryer is stored



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in two containers located to the south of the building and removed by a contractor on an as needed basis, Photo 68 in **Appendix B**. The gas pumps are located at the south western corner of the property, as viewed in Photo 69, **Appendix B**. Based on aerial photographs, the gas bar was not present from 1932 to 1993. According to a brief telephone interview with the owner, the tanks were replaced within the last 5 years, and are compliant with provincial codes.

The presence of the USTs close to the property boundary of the Site is an environmental concern.



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8.0 CONCLUSIONS AND RECOMMENDATIONS

The Phase I ESA has revealed evidence of potential environmental contamination associated with the Site. The sources of potential environmental concern (PEC) identified during this Phase I ESA are outlined in the table below. The numbers associated with each concern are illustrated on Drawing 4 in **Appendix A**. It is important to note that the exterior surfaces of the Site could not be assessed due to the heavy snow cover on-site at the time of all visits. It was therefore not possible to assess waste storage areas for staining and leaks.

Number on Drawing	Potential Environmental Concern				
1	Fire Hall Jerry cans and fire suppressant foam around a drain with unknown discharge location. Water damage on the floor of the second story of the fire house, and mold on the ceiling of the fire hall.				
2	Health Center Possible mold due to leaking roof.				
3	APFN Band Office Two sumps located in the basement with unknown discharge locations. Fueling ASTs with no secondary containment. Minor staining on the gravel floor in the garage				
4	Maintenance Garage Four exterior fueling ASTs without secondary containment. Oil pails inside the APFN garage with staining on the floor underneath. Two drains discharging to a dry well located north of the building. Oil pails stacked to the north of the building. Unknown location of the reported waste oil container. Salt storage.				
5	Kiji Works Barn Water damage, mold and animal feces located on the second floor. Construction debris noted on the east side of the second floor.				
6	Commercial Center Heating oil AST within 2 metres of the potable water well.				
7	Smoke'n'Tires Old cars parked around the yard. A drain in the floor under the hoist, where maintenance on cars occurs, that drains into the ground. An AST, reportedly empty, to the north of the building.				
8	Former Marine Gas Bar.				
9	Former Dumping Site				
10a	Fueling AST present at the private residence of 84 Chibekana Inamo.				
10b	Fueling AST present at the private residence of 358 Ininatag Inamo.				
10c	Fueling AST present at the private residence of 174 Kokomis Inamo.				
10d	Fueling AST present at the private residence of 225 A Kokomis Inamo.				
10e	Fueling AST present at the private residence of 242 Kokomis Inamo.				
10f	Fueling AST present at the private residence of 276 Kokomis Inamo.				
10g	Fueling AST present at the private residence of 341A Kokomis Inamo.				
10h	Fueling AST present at the private residence of 70 Majihigan Inamo.				



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Number on Drawing	Potential Environmental Concern			
10i	Fueling AST present at the private residence of 1291 Mishomis Inamo.			
10j	Fueling AST present at the private residence of 1312 Mishomis Inamo.			
10k	Fueling AST present at the private residence of 1511 Mishomis Inamo.			
11	Reported oil changing activities, old cars and snowmobiles, fueling AST to the east of the private residence of 1296 Mishomis Inamo.			
12a	Debris noted at the private residence of 77 Chigagam Inamo.			
12b	Debris noted at the private residence of 358 Ininatag Inamo.			
12c	Debris noted at the private residence of 574 Ininatag Inamo.			
12d	Debris noted at the private residence of 648 Ininatag Inamo.			
12e	Debris noted at the private residence of 942 Ininatag Inamo			
12f	Debris noted at the private residence of 54 Kagagimin Inamo;			
12g	Debris noted at the private residence of 35 Kiwita Inamo.			
12h	Debris noted at the private residence of 99 Kiwita Inamo.			
12i	Debris noted at the private residence of 182 Kokomis Inamo.			
12j	Debris noted at the private residence of 480 Kokomis Inamo.			
12k	Debris noted at the private residence of 496 Kokomis Inamo.			
121	Debris noted at the private residence of 1251 Mishomis Inamo.			
12m	Debris noted at the private residence of 1358 Mishomis Inamo.			
12n	Debris noted at the private residence of 1463, Mishomis Inamo.			
120	Debris noted at the private residence of 1583 Mishomis Inamo.			
12p	Debris noted at the private residence of 43 Nopoming Inamo.			
12q	Debris noted at the private residence of 72 Nopoming Inamo.			
12r	Debris noted at the private seasonal cottage to the north of the trailer park.			
13	Kokomish Café and Gas Bar with 2 USTs.			
14	Current Landfill			
15	Former railway tracks / fill material			
16	Former car crushing site / dumping area			
17	Potential for radon gas			

At PECs # 1, 3, 4, 6, 7, 8, 9, 13, 14, 15, 16, Stantec recommends the following:

- locate potential discharge areas for floor drains;
- construct secondary containment for all ASTs as a best management practice ;
- complete a follow-up site visit once the snow melts, to view the ground under and around the ASTs for any signs of impacts;
- remove the debris from PEC#9, take to the landfill for disposal, and monitor the area to prevent future illegal dumping;
- prepare and execute a landfill monitoring and sampling program to include at least annual monitoring and sampling of surface water and groundwater and reporting;
- implement a landfill operations and closure program;



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• complete a Phase II ESA to assess the presence or absence of soil, sediment, groundwater, and surface water (if available) impacts in the vicinity of these environmental concerns. The scope of work for the Phase II ESA should include both boreholes and/or test pits and groundwater monitoring wells to enable an assessment of both soil and groundwater quality.

For PECs #1, 2, and 5, Stantec recommends:

• remove the materials impacted by mold, water staining, or animal feces, and repair any leaks that allowed water to enter the buildings.

For PECs# 10a to 10k and 11, Stantec recommends:

- construct secondary containment around all fueling ASTs as a best management practice;
- complete a visual inspection of the AST areas after the snow has melted for evidence of spills and or leaks from the tanks;

For PECs# 5, 11, and 12a to 12r, Stantec recommends:

- remove debris for appropriate disposal at the landfill;
- complete a visual inspection of the areas previously covered by debris once the snow melts for evidence of impacts from the debris.

For PEC #17, Stantec recommends:

• complete an indoor radon gas assessment as previously proposed by Stantec.

Based on the age of the community buildings, asbestos, PCBs, and lead containing materials may be present on the Site. A hazardous materials survey should be conducted to determine the presence or absence of asbestos, PCBs, or lead prior to any renovation or demolition of the community buildings. Suitable precautions and approved contractors should be used for all activities which may disturb hazardous materials.

We have not received information yet from the Ontario Ministry of the Environment (MOE) Freedom of Information and Protection of Privacy office. The information, if any, in the response from the MOE will be provided to the APFN.

The recommended scope of work for the Phase II Environmental Site Assessment based on each identified concern is as follows:

1) Maintenance Garage and Yard:

- Trace the termination point of the identified drain.
- Install four boreholes completed as monitoring wells surrounding the maintenance yard.



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• Collect soil and groundwater samples for the following contaminants of concern (COCs): volatile organic compounds (VOCs), petroleum hydrocarbon (PHC) fractions F1 to F4, polycyclic aromatic hydrocarbons (PAHs), metals, electrical conductivity, sodium adsorption ratio, and chloride.

2) Fire Hall:

- Trace the termination point of the identified drain.
- Install two boreholes completed as monitoring wells.
- Collect soil and groundwater samples for the following contaminants of concern (COCs): VOCs, PHC F1 to F4, PAHs, metals, electrical conductivity, sodium adsorption ratio, and chloride

3) Smoke'n Tires:

- Trace the termination point of the identified drain.
- Install two boreholes completed as monitoring wells.
- Collect soil and groundwater samples for the following contaminants of concern (COCs): VOCs, PHC F1 to F4, PAHs, metals, electrical conductivity, sodium adsorption ratio, and chloride

4) Off-site gas bar:

- Install three boreholes completed as monitoring wells down gradient from the gas bar.
- Collect soil and groundwater samples for the following COCs: benzene, toluene, ethylbenzene, and xylenes (BTEX) and PHC F1 to F4.

5) Former dump area:

- Install four boreholes completed as monitoring wells surrounding the former dump area.
- Collect soil and groundwater samples for the following COCs: VOCs, PHC F1 to F4, PAHs, metals, and polychlorinated biphenyls (PCBs).

6) Former railway tracks/suspect fill:

- Install five boreholes completed as monitoring wells along the railway right-of-way.
- Collect soil and groundwater samples for the following COCs: VOCs, PHC F1 to F4, PAHs, metals, and PCBs.



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7) Former car crushing/dumping area:

- Install four boreholes completed as monitoring wells surrounding the car crushing/dumping area.
- Collect soil and groundwater samples for the following COCs: VOCs, PHC F1 to F4, PAHs, metals, and PCBs.

8) Former marine gas bar:

- Install two boreholes completed as monitoring wells around the former marine gas bar.
- Collect soil, groundwater and sediment samples for the following COCs: BTEX and PHC F1 to F4.

Based on the above Phase II ESA scope of work, the opinion of probable cost ranges between **\$75,000 to \$85,000 (excluding HST).**

The recommended scope of work for the active landfill is as follows:

- Review all previous landfill monitoring reports.
- Prepare a proposal under a separate cover detailing the landfill monitoring and reporting program, operations and closure plan.



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9.0 CLOSURE

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec's assessment may have significantly altered the property's condition. Stantec cannot comment on other areas of the property that were not assessed.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report, and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property's environmental condition. This report should not be construed as legal advice.

This report has been prepared for the exclusive use of the client identified herein and any use by any third party is prohibited. Stantec assumes no responsibility for losses, damages, liabilities or claims, howsoever arising, from third party use of this report.

This report is limited by the following:

• The majority of the Site was snow covered at the site of the site visit. The ground surface, and bottom of any exterior aboveground storage tanks could not be inspected.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or subsurface utilities and structures are not guaranteed. Before starting work, the exact location of all such utilities and structures should be confirmed and Stantec assumes no liability for damage to them.

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition,



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analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

Should additional information become available which differs significantly from our understanding of conditions presented in this report, Stantec specifically disclaims any responsibility to update the conclusions in this report.

This report was prepared by Brenda Thom, M.Sc.(Eng), EIT, and reviewed by Jane Yaraskavitch, M.Eng., P.Eng.

Yours truly,

STANTEC CONSULTING LTD.

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Brenda Thom, M.Sc.(Eng.), EIT Environmental Site Assessor Jane Yaraskavitch, M.Eng., P.Eng. Senior Reviewer

 $V: 01225 \ active \ 122510937 \ Pikwakanagan \ Phase \ I \ ESA \ reports \ phase \ I \ 122510937 \ APFN \ Phase \ I \ 20140307. \ doc X \ APFN \ Phase \ I \ APFN \ Phase \ I \ APFN \ Phase \ I \ APFN \ A$



Appendix A Drawings March 7, 2014



Drawings









Client/Project Algonquins of Pikwakanagan First Nation Phase I ESA



Coordinate System: NAD 1983 UTM Zone 18N
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 Inset map base features provided by Esrl.

Notes

Site Location Map





Notes

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Legend

- •—• Hydro Line and Easement
- Building or Site Feature
- Study Area Boundary

March, 2014 Project No.: 122510937

Client/Project Algonquins of Pikwakanagan First Nation Phase I ESA

Drawing No. 2

DRAFT

Title

Site Plan





Notes

- Coordinate System: NAD 1983 UTM Zone 18N
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Legend

- 🕂 Former Railway
- Area of Historical Concern
- Study Area Boundary

Client/Project Algonquins of Pikwakanagan First Nation Phase I ESA

Drawing No. 3

DRAFT

Title

Historical Concerns

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510937_Pkwakanagan_Phase_LESA\GIS\MXD\122510937_Fig04_PotEnvioConcerns mxd 	Item No. 1 2 3 4 5 6 7 8 9 10A 10B 10C 10D 10E 10F 10G 10H 10J 10K 11 12A 12B 12C 12D 12E 12F 12G 12H 12J 12K 12J 12K 12J 12K 12D 12P 12O 12P 12D 12P 12O 12P 12D 12P 12O 12P 12D 12P 12O 12P 12D 12P 12O 12P 12D 12P 12D 12P 12O 12P 12D 12P	Potential Environmental Concern Fire Hall Health center APFN Band Office Maintenance garage Kiji Works Barn Commercial Center Smoke'n'Tires Former Marine Gas Bar Former Dumping Site Fueling AST at 84 Chibekana Inamo Fueling AST at 358 Ininatag Inamo Fueling AST at 225 A Kokomis Inamo Fueling AST at 242 Kokomis Inamo Fueling AST at 276 Kokomis Inamo Fueling AST at 276 Kokomis Inamo Fueling AST at 1312 Mishomis Inamo Fueling AST at 1312 Mishomis Inamo Fueling AST at 1312 Mishomis Inamo Fueling AST at 1511 Mishomis Inamo Fueling AST at 1511 Mishomis Inamo Debris at 574 Ininatag Inamo Debris at 574 Ininatag Inamo Debris at 574 Ininatag Inamo Debris at 54 Kagagimin Inamo Debris at 54 Kivita Inamo Debris at 182 Kokomis Inamo Debris at 182 Kokomis Inamo Debris at 183 Mishomis Inamo Debris at 184 Mishomis Inamo Debris at 1851 Mishomis Inamo Debris at 574 Ininatag Inamo Debris at 574 Ininatag Inamo Debris at 574 Ininatag Inamo Debris at 574 Ininatag Inamo Debris at 182 Kokomis Inamo Debris at 182 Kokomis Inamo Debris at 183 Mishomis Inamo Debris at 183 Mishomis Inamo Debris at 184 Mishomis Inamo Debris at 1858 Mishomis Inamo Deb	12 12 12 12 12 12 12 12 12 12 12 12 12 1				
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Notes

- Coordinate System: NAD 1983 UTM Zone 18N
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Legend

- Potential Environmental Concern
- 🕂 Former Railway
- Site Feature/Building
- Study Area Boundary



Client/Project Algonquins of Pikwakanagan First Nation Phase I ESA

Drawing No. Λ

DRAFT

Title

Locations of Potential **Environmental Concerns**

Appendix B Photographs March 7, 2014

Appendix B

Photographs





Photo 1: Fire fighting foam concentrate totes and jerry can located in Fire Hall (January 2014).





Photo 2: Empty fire fighting foam concentrate totes with foam on the floor of the Fire Hall (January 2014).



Photo 3: Drain#1 under the fire truck in the Fire Hall garage (January 2014).





Photo 4: Drain #2 between the fire trucks in the Fire Hall garage (January 2014).





Photo 5: Water staining on the floor of the second story of the Fire House (January 2014).



Photo 6: Mold on the ceiling in the Fire Hall Garage (January 2014).





Photo 7: Sump #1 in the northeast corner of the APFN Band Office. Sump has unknown discharge location (January 2014).



Photo 8: Inside of sump #1 at northeast corner of APFN Band Office (January 2014).





Photo 9: Sump #2 in the southwest corner of the APFN Band Office (January 20140.





Photo 10: inside sump #2 in the southwest corner of the APFN Band Office (January 2014).



Photo 11: Looking southwest at the fueling ASTs present south of the APFN Band Office (January 2014).





Photo 12: Paint can storage and minor staining on the gravel floor of the garage south of the APFN Band Office (January 2014).



Photo 13: ASTs owned by Mundt's Heating and Cooling, at the southwest corner of the Maintenance Yard (January 2014).





Photo 14: ASTs owned by the APFN at the east side of the Maintenance Yard (January 2014)



Photo 15: Looking southwest at the heating oil AST in the APFN side of the Maintenance Garage (January 2014).





Photo 16: Looking northeast at the Municipal side of the Maintenance Garage. Note the staining on the floor around the drain, and heating oil AST in the back corner under the green bins (January 2014).



Photo 17: Oil pails located in the southwest corner of the APFN Maintenance Garage (January 2014).





Photo 18: Staining on the ground underneath the oil pails in the Maintenance Garage (January 2014).



Photo 19: Looking south at the north side of the Maintenance Garage. Oil pails are stacked against the wall. Foot prints in the snow mark the location of the dry well in the bottom left corner (January 2014).





Photo 20: Looking east across the APFN Maintenance Garage. Note the drain on the left hand side of the picture, and the AST in the background in the center of the picture (January 2014).



Photo 21: Water damage on the ceiling of the second floor of the Kiji Works Building at the west end (January 2014).





Photo 22: Water damage and moss on the floor of the second story in the Kiji Works Building at the west end (January 2014).



Photo 23: Debris in the east end of the second floor of the Kiji Works Building (January 2014).





Photo 24: Lubricants, oils and solvents in the backroom of Mundt's Heating and Cooling of the Industrial Center (January 20140.



Photo 25: Stained pails and jerry can in the backroom of Mundt's Heating and Cooling at the south end of Industrial Center (January 2014).





Photo 26: Heating oil AST and potable water well at the southwest corner of the Commercial Center (January 2014).



Photo 27: Old AST, reportedly empty, at 443 Kokomis Inamo, Smoke'n'Tires (January 2014).





Photo 28: The garage with hydraulic hoist with drain in middle of floor discharging into the ground at 443 Kokomis Inamo, Smoke'n'Tires (January 2014).





Photo 29: Old tractor observed at 77 Chigagam Inamo (January 2014).



Photo 30: KLEEN FLO barrel in the trees at 358 Ininatag Inamo (January 2014).





Photo 31: Debris consisting of old tires, jerry cans, and solvents at 574 Ininatag Inamo (January 2014).



Photo 32: Old AST in pile of scrap metal at 648 Ininatag Inamo (January 2014).





Photo 33: Plastic barrels with unknown contents at 942 Ininatag Inamo (January 2014).



Photo 34: Old car in the trees at 54 Kagagamin Inamo (January 2014).





Photo 35: Jerry cans located at the back of the residence at 35 Kiwita Inamo (January 2014).



Photo 36: Old furniture and other debris at the back of 99 Kiwita Inamo (January 2014).




Photo 37: pails of hydraulic oil at 182 Kokomis Inamo (January 2014).





Photo 38: Old cars and boats at the back of 480 Kokomis Inamo (January 2014).



Photo 39: Old cars in the trees behind 496 Kokomis Inamo (January 2014).





Photo 40: Batteries and solvents at the side of the residence at 1251 Mishomis Inamo (January 2014).



Photo 41: Old bus filled with boxes at the back of 1251 Mishomis Inamo (January 2014).





Photo 42: Plastic barrels buried in the snow, contents unknown (January 2014).



Photo 43: Debris located behind the residence at 12963 Mishomis Inamo (January 2014).





Photo 44: Old cars, snowmobiles, and jerry cans in front of residence at 1296 Mishomis Inamo. Reportedly oil changing and other maintenance activities occur at this property (January 20140.



Photo 45: Old AST in pile of debris to the northeast of the residence at 1358 Mishomis Inamo (January 2014).





Photo 46: Old snowmobiles and an old car at 1463 Mishomis Inamo (January 2014).



Photo 47: Old battery, and jerry can on the ground at 1583 Mishomis Inamo (January 2014).





Photo 48: Multiple jerry cans located at the side of the residence at 43 Nopoming Inamo (January 2014).



Photo 49: Jerry cans and other containers along the side of 72 Nopoming Inamo (January 2014).





Photo 50: AST located east of seasonal cottages north of trailer park (January 2014).



Photo 51: Fueling ASTs at 84 Chibekana Inamo (January 2014).





Photo 52: AST between shed and residence at 358 Ininatag Inamo (January 2014).



Photo 53: Fueling ASTs in shed with gravel floor, north of residence at 174 Kokomis Inamo (January 2014).





Photo 54: Fueling AST west of the residence at 225A Kokomis Inamo (January 2014).



Photo 55: Fueling AST and jerry cans near a shed north of the residence at 242 Kokomis Inamo (January 2014).





Photo 56: Fueling AST next to the garage to the south of the residence at 276 Kokomis Inamo (January 2014).



Photo 57: Fueling AST located at the southeast corner of the property at 341A Kokomis Inamo (January 2014).





Photo 58: Second Fueling AST to the northwest of the residence at 341A Kokomis Inamo (January 2014).



Photo 59: Fueling AST at the residence at 70 Majihigan Inamo (January 2014).





Photo 60: Fueling AST located at 1291 Mishomis Inamo (January 2014).



Photo 61: Fueling AST at the east side of the residence at 1296 Mishomis Inamo (January 2014).





Photo 62: Fueling AST located at 1312 Mishomis Inamo (January 2014).



Photo 63: Fueling AST located at 1511 Mishomis Inamo (January 2014).





Photo 64: Former marine gas bar at 154 Kokomis Inamo (January 2014).



Photo 65: Staining on wall behind fill pipe at 1586 Mishomis Inamo (January 2014).





Photo 66: Water softening salt in the furnace room of the Retirement home (January 2014).



Photo 67: Waste oil container and used oil fiter storage containers, to the south of the Smoke'n'Tires at 443 Kokomis Inamo (January 2014).





Photo 68: Used cooking oil waste containers to the south of the Kokomish Café and Gas Bar (January 2014).



Photo 69: Looking north from southwest corner at the Kokomish Café and Gas Bar (January 2014).





Photo 70: Old dumping site at Mishomis Inamo and the southern limit of the APFN reserve (January 2014).



Photo 71: Active landfill area (January 2014).





Photo 72: View inside the landfill storage garage (January 2014).



Photo 73: Recyclable materials transfer station, northwest of the landfill (January 2014).





Photo 74: APFN east sand pit, located southeast of the current landfill (January 2014).



Photo 75: East edge of the APFN east sand pit, showing wastes from former landfill (January 2014).





Photo 76: APFN north sand pit (January 2014).



Photo 77: Private sand pit southeast of the APFN east sand pit (January 2014).





Photo 78: Former railway bed (January 2014).



DRAFT PHASE I ENVIRONMENTAL SITE ASSESSMENT OF ALGONQUINS OF PIKWÀKANÀGAN FIRST NATION RESERVE, PIKWÀKANÀGAN, ON

Appendix C Assessor Qualifications March 7, 2014



Assessor Qualifications



Jane Yaraskavitch, M.Eng., P.Eng. Senior Associate



Profile

Jane Yaraskavitch has been working in the area of Phase I Environmental Site Assessments (ESAs) since 1994. She is Stantec's Site Management and Remediation Regional Discipline Leader for Ontario. Ms. Yaraskavitch has completed and managed Phase I, II and III ESAs of residential, commercial, institutional, and industrial properties for financial institutions, property developers, insurance firms, real estate investments trusts, municipal/provincial/federal government agencies, and others. Jane has been licensed as a Professional Engineer in Ontario since 1994.

EDUCATION

M.Eng. – University of Toronto, 1993 Toronto, ON Environmental Engineering

B.A.Sc. – University of Waterloo, 1990 Waterloo, ON Chemical Engineering

COMPENTENCY

Site Visit

Report Writer

Senior Reviewer



Profile

Brenda Thom has been working in the area of Phase I Environmental Site Assessments (ESAs) since 2007. Since joining Stantec Ltd., Ms. Thom has completed Phase I, II and III ESAs of residential, commercial, institutional, and industrial properties for financial institutions, property developers, insurance firms, real estate investments trusts, municipal/provincial/federal government agencies, and others.

EDUCATION

M.Sc.(Eng.) – Queen's University, 2008 Kingston, ON Civil Engineering

B.Sc.Eng. – Queen's University, 2005 Kingston, ON Geological Engineering

COMPENTENCY

Site Visit Report Writer



Profile

Jason Nagasawa has been working in the area of Phase I Environmental Site Assessments (ESAs) since 2010. Mr. Nagasawa has completed and managed Phase I, II and III ESAs of residential, commercial, institutional, and industrial properties for financial institutions, property developers, insurance firms, real estate investments trusts, municipal/provincial/federal government agencies, and others.

EDUCATION

M.Sc. – University of Guelph, 2005 Guelph, ON Earth Sciences

B.Sc. – University of Guelph, 2003 Guelph, ON Biological Sciences

COMPENTENCY

Site Visit

Report Writer

Project Management

DRAFT PHASE I ENVIRONMENTAL SITE ASSESSMENT OF ALGONQUINS OF PIKWÀKANÀGAN FIRST NATION RESERVE, PIKWÀKANÀGAN, ON

Appendix D Supporting Documentation March 7, 2014



Supporting Documentation





An SCM Company

150 Commerce Valley Drive W 8th Floor Markham, Ontario L3T 7Z3 T: 905-882-6300 www.optaintel.ca

Report Completed By: Devon Mallay





Site Address: Ininatig Inamo, Golden Lake, Ontario

Project No: 20131203044

Opta Order ID: 20131203044

Requested by: Eleanor Goolab Ecolog ERIS

Date Completed: December 12th, 2013

Opta Environmental Services <u>Historical Environmental Information Reporting System (HEIRS[™])</u>

December 12th, 2013

Ms. Eleanor Goolab EcoLog ERIS 80 Valleybrook Drive North York, Ontario M3B 2S9

Dear Eleanor,

Re: Your Site Address: "Ininatig Inamo, Golden Lake, Ontario" Your Project No.: 20131203044

As requested, we have searched our records regarding the above site and the following information was found:

Information	Date(s)	Comment	Cost	
Research Fee per street		\$50.00 flat fee per street address.	\$50.00	
address				
Fire Insurance Plans	No Records Found	\$125.00 for each Fire Insurance Plan.		
Reports:	No Records Found	\$55.00 for each Inspection/Survey report		
All Risk/Multi-Risk:				
Inspection:				
COPE:				
Other:				
Site Plan(s)	No Records Found	\$70.00 for each Site plan		
			\$50.00	
Subtotal				
		Minimum order fee of \$155.00	N/A	
		2 (two)/4 (four) Day Rush Service	N/A	
		Total	\$50.00	

NRF: No Records Found. NO: Not Ordered.

The total cost for this report is \$50.00 plus courier charges (if applicable) and HST. Please see the Terms and Conditions for our search on page two of this report.

Thank you for employing the services of Opta Information Intelligence.

Anthony Remonde Opta Environmental Services



150 Commerce Valley Drive W Markham, Ontario L3T 7Z3 T: 905.882.6300 Toll Free: 1.800.268.8080 F: 905.695.6543 An SCM Company www.optaintel.ca

Opta Environmental Services Historical Environmental Information Reporting System (HEIRS[™]) <u>Terms and Conditions</u>

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.



Page 2 of 2

150 Commerce Valley Drive W Markham, Ontario L3T 7Z3 T: 905.882.6300 Toll Free: 1.800.268.8080 F: 905.695.6543 An SCM Company www.optaintel.ca



Ontario Base Mapping (OBM) Data



Order No. 20131203044



DATABASE REPORT



Project Property:

Report Type: Order #: Requested by: Date: Golden Lake Phase I ESA Proposal Inintig Inamo Golden Lake ON Custom-Build Your Own Report

20131203044

Stantec Consulting Ltd. January 22, 2014

Ecolog ERIS Ltd.

Environmental Risk Information Service Ltd. (ERIS) A division of Glacier Media Inc. P: 1.866.517.5204 E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Project Property:

Order Information:

Order No.: Date Requested: Requested by: Report Type:

Additional Products:

Insurance Products Insurance Products Insurance Products Topographic Map Topographic Map Golden Lake Phase I ESA Proposal Inintig Inamo Golden Lake ON

20131203044 22/01/2014 Stantec Consulting Ltd. Custom-Build Your Own Report

Fire Insurance Plans Inpection Reports Site Specific Plans Ontario Base Map (OBM) National Topographic Maps

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
<u>AAGR</u>	Abandoned Aggregate Inventory	Y	0	0	0
<u>AGR</u>	Aggregate Inventory	Y	0	0	0
<u>AMIS</u>	Abandoned Mine Information System	Y	0	0	0
<u>ANDR</u>	Anderson's Waste Disposal Sites	Y	1	0	1
<u>AUWR</u>	Automobile Wrecking & Supplies	Y	0	0	0
<u>BORE</u>	Borehole	Y	0	0	0
<u>CA</u>	Certificates of Approval	Y	0	0	0
<u>CFOT</u>	Commercial Fuel Oil Tanks	Y	0	0	0
<u>CHEM</u>	Chemical Register	Y	0	0	0
<u>COAL</u>	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
<u>CONV</u>	Compliance and Convictions	Y	0	0	0
<u>CPU</u>	Certificates of Property Use	Y	0	0	0
<u>DRL</u>	Drill Hole Database	Y	0	0	0
<u>EASR</u>	Environmental Activity and Sector Registry	Y	0	0	0
<u>EBR</u>	Environmental Registry	Y	0	0	0
<u>ECA</u>	Environmental Compliance Approval	Y	0	0	0
<u>EEM</u>	Environmental Effects Monitoring	Y	0	0	0
<u>EHS</u>	ERIS Historical Searches	Y	1	1	2
<u>EIIS</u>	Environmental Issues Inventory System	Y	0	0	0
<u>EXP</u>	List of TSSA Expired Facilities	Y	0	2	2
<u>FCON</u>	Federal Convictions	Y	0	0	0
<u>FCS</u>	Contaminated Sites on Federal Land	Y	2	0	2
<u>FOFT</u>	Fisheries & Oceans Fuel Tanks	Y	0	0	0
<u>FST</u>	Fuel Storage Tank	Y	0	0	0
<u>FSTH</u>	Fuel Storage Tank - Historic	Y	0	0	0
<u>GEN</u>	Ontario Regulation 347 Waste Generators Summary	Y	4	0	4
<u>HINC</u>	TSSA Historic Incidents	Y	0	0	0
<u>IAFT</u>	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
<u>INC</u>	TSSA Incidents	Y	0	0	0
<u>LIMO</u>	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
<u>MNR</u>	Mineral Occurrences	Y	0	0	0
<u>NATE</u>	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
<u>NCPL</u>	Non-Compliance Reports	Y	0	0	0
<u>NDFT</u>	National Defence & Canadian Forces Fuel Tanks	Y	0	0	0
<u>NDSP</u>	National Defence & Canadian Forces Spills	Y	0	0	0
<u>NDWD</u>	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
<u>NEES</u>	National Environmental Emergencies System (NEES)	Y	0	0	0
<u>NPCB</u>	National PCB Inventory	Y	0	0	0
<u>NPRI</u>	National Pollutant Release Inventory	Y	0	0	0
<u>OGW</u>	Oil and Gas Wells	Y	0	0	0
<u>00GW</u>	Ontario Oil and Gas Wells	Y	0	0	0
<u>OPCB</u>	Inventory of PCB Storage Sites	Y	0	0	0
<u>ORD</u>	Orders	Y	0	0	0
<u>PAP</u>	Canadian Pulp and Paper	Y	0	0	0
<u>PCFT</u>	Parks Canada Fuel Storage Tanks	Y	0	0	0
<u>PES</u>	Pesticide Register	Y	0	0	0
<u>PINC</u>	TSSA Pipeline Incidents	Y	0	0	0
<u>PRT</u>	Private and Retail Fuel Storage Tanks	Y	0	0	0
<u>PTTW</u>	Permit to Take Water	Y	0	0	0
<u>REC</u>	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
<u>RSC</u>	Record of Site Condition	Y	0	0	0
<u>RST</u>	Retail Fuel Storage Tanks	Y	0	0	0
<u>SCT</u>	Scott's Manufacturing Directory	Y	0	0	0
<u>SPL</u>	Ontario Spills	Y	0	0	0
<u>SRDS</u>	Wastewater Discharger Registration Database	Y	0	0	0
<u>TANK</u>	Anderson's Storage Tanks	Y	0	0	0
<u>TCFT</u>	Transport Canada Fuel Storage Tanks	Y	0	0	0
<u>VAR</u>	TSSA Variances for Abandonment of Underground	Y	0	0	0
<u>WDS</u>	Storage Tanks Waste Disposal Sites - MOE CA Inventory	Y	0	0	0
<u>WDSH</u>	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	0	0	0
<u>WWIS</u>	Water Well Information System	Y	96	27	123
		Total:	104	30	134
Executive Summary: Site Report Summary – Project Property

Map Key	DB	Company/Site Name	Address	Page Number
1	WWIS		ON	22
2	WWIS		ON	22
<u>3</u>	WWIS		ON	23
<u>4</u>	FCS		Pikwakanagan (Golden Lake 39) ON	23
<u>4</u>	FCS		Pikwakanagan (Golden Lake 39) ON	24
<u>5</u>	WWIS		ON	24
<u>6</u>	WWIS		ON	25
Z	WWIS		ON	25
<u>8</u>	WWIS		ON	25
<u>9</u>	WWIS		ON	26
<u>10</u>	WWIS		ON	26
<u>11</u>	WWIS		ON	27
<u>12</u>	WWIS		ON	27
<u>13</u>	WWIS		ON	28
<u>14</u>	WWIS		ON	28
<u>15</u>	WWIS		ON	29
<u>16</u>	WWIS		ON	29

Map Key	DB	Company/Site Name	Address	Page Number
<u>17</u>	WWIS		ON	30
<u>18</u>	WWIS		ON	30
<u>19</u>	WWIS		ON	31
<u>20</u>	WWIS		ON	31
<u>21</u>	WWIS		ON	32
<u>22</u>	WWIS		ON	32
<u>23</u>	WWIS		ON	33
<u>24</u>	WWIS		ON	33
<u>25</u>	WWIS		ON	34
<u>26</u>	WWIS		ON	34
<u>27</u>	WWIS		ON	35
<u>28</u>	WWIS		ON	35
<u>29</u>	WWIS		ON	36
<u>30</u>	WWIS		ON	36
<u>31</u>	WWIS		ON	37
<u>32</u>	WWIS		ON	37
<u>33</u>	WWIS		ON	37
<u>34</u>	WWIS		ON	38
<u>35</u>	WWIS		ON	38

Map Key	DB	Company/Site Name	Address	Page Number
<u>36</u>	WWIS		ON	39
<u>37</u>	WWIS		ON	39
<u>39</u>	WWIS		ON	40
<u>40</u>	WWIS		ON	40
<u>41</u>	WWIS		ON	41
<u>42</u>	GEN	Public Health Agency of Canada	1643 Mishomis Inamo Golden Lake ON K0J 1X0	41
<u>42</u>	GEN	Health Canada-Algonquins of Golden Lake Health Cen	1643 Mishomis Inamo Golden Lake ON K0J 1X0	41
<u>42</u>	GEN	Health Canada-Algonquins of Golden Lake Health Cen	1643 Mishomis Inamo Golden Lake ON K0J 1X0	42
<u>42</u>	GEN	Health Canada-Algonquins of Golden Lake Health Cen	1643 Mishomis Inamo Golden Lake ON K0J 1X0	42
<u>43</u>	WWIS		ON	42
<u>44</u>	WWIS		ON	43
<u>45</u>	WWIS		ON	43
<u>46</u>	WWIS		ON	44
<u>47</u>	WWIS		ON	44
<u>48</u>	WWIS		ON	45
<u>49</u>	WWIS		ON	45
<u>50</u>	WWIS		ON	45
<u>51</u>	WWIS		ON	46
<u>52</u>	WWIS		ON	46

Мар Кеу	DB	Company/Site Name	Address	Page Number
<u>54</u>	WWIS		ON	47
<u>54</u>	WWIS		ON	47
<u>55</u>	WWIS		ON	48
<u>56</u>	WWIS		ON	48
<u>57</u>	WWIS		ON	49
<u>58</u>	WWIS		ON	49
<u>59</u>	WWIS		ON	49
<u>60</u>	WWIS		ON	50
<u>61</u>	WWIS		ON	50
<u>62</u>	WWIS		ON	51
<u>63</u>	WWIS		ON	51
<u>64</u>	WWIS		ON	52
<u>65</u>	WWIS		ON	52
<u>66</u>	WWIS		ON	52
<u>67</u>	WWIS		ON	53
<u>68</u>	WWIS		ON	53
<u>69</u>	WWIS		ON	54
<u>70</u>	WWIS		ON	54
<u>71</u>	WWIS		ON	55

Map Key	DB	Company/Site Name	Address	Page Number
<u>72</u>	WWIS		ON	55
<u>74</u>	WWIS		ON	56
<u>75</u>	WWIS		ON	56
<u>76</u>	EHS		1669 Mishomis Inamo Golden Lake ON K0J 1X0	57
<u>81</u>	WWIS		ON	57
<u>83</u>	WWIS		ON	58
<u>84</u>	WWIS		ON	58
<u>86</u>	WWIS		ON	59
<u>87</u>	WWIS		ON	59
<u>88</u>	WWIS		ON	59
<u>90</u>	WWIS		ON	60
<u>92</u>	WWIS		ON	60
<u>95</u>	WWIS		ON	61
<u>97</u>	WWIS		ON	61
<u>98</u>	WWIS		ON	62
<u>99</u>	WWIS		ON	62
<u>101</u>	WWIS		ON	63
<u>103</u>	WWIS		ON	63
<u>107</u>	WWIS		ON	64

Map Key	DB	Company/Site Name	Address	Page Number
<u>111</u>	WWIS		ON	64
<u>112</u>	WWIS		ON	64
<u>113</u>	WWIS		ON	65
<u>114</u>	WWIS		ON	66
<u>116</u>	WWIS		ON	66
<u>117</u>	ANDR	Golden Lk FN Dump 1979	Golden Lake ON K0J 1X0	66
<u>118</u>	WWIS		ON	67
<u>119</u>	WWIS		ON	67
<u>120</u>	WWIS		ON	68
<u>121</u>	WWIS		ON	68
<u>125</u>	WWIS		ON	69

Executive Summary: Site Report Summary – Surrounding Properties

33 www by the set of the set o	Map Key	DB	Company/Site Name	Address	Page Number
S2WWISON7073WWISON7174WWISON7175WWISON7176WWISON7177WWISON7282WWISON7384WWISON7385WWISON7386WWISON7487WWISON7488WWISON7491WWISON7492WWISON7493WWISON7494EXPKAREN WHALENSCNCOMIS INAMO COLDEN LAKE ON KOU 1XO COLDEN LAKE ON KOU 1XO7694EXPKAREN WHALENON7695ONON7696WWISON7697ONON7698WISON7699WWISON7690WWISON7691WWISON7692WWISON7693ON767694EXPKAREN WHALEN7695ON767696WWISON7697ON767698WWISON7699WWISON7690ON767691ON767692ON767693	<u>38</u>	WWIS		ON	69
23WWISNN72WWISNN73WWISNN74NN75NN76WWISNN76NN77NN78WWISNN79NN79NN79NN79NN79NN79NN79NN79NN79NN79NN79NN79NN79NN79NN79NN70NN71NN70NN71NN70NN71NN71NN71NN71NN72NN73NN74NN75NN76NN77NN76NN77NN78NN79NN79NN79NN79NN79NN79NN79NN79 </td <td><u>53</u></td> <td>WWIS</td> <td></td> <td>ON</td> <td>70</td>	<u>53</u>	WWIS		ON	70
72 WWIS ON 71 78 WWIS ON 71 79 WWIS ON 72 80 WWIS ON 72 81 WWIS ON 72 82 WWIS ON 73 82 WWIS ON 73 83 WWIS ON 73 84 WWIS ON 74 91 WWIS ON 74 92 WWIS ON 74 93 WWIS ON 74 94 EXP KAREN WHALEN ON 75 94 EXP KAREN WHALEN TS KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 96 WWIS ON 76 77 100 WWIS ON 77 110 WWIS ON 77 111 ON ON 77 112 ON ON 77 113 ON ON 78 114 ON 0N	<u>73</u>	WWIS		ON	70
74 WWIS ON 72 79 WWIS ON 72 80 WWIS ON 72 82 WWIS ON 73 84 WWIS ON 73 85 WWIS ON 73 89 WWIS ON 73 89 WWIS ON 74 91 WWIS ON 74 91 WWIS ON 74 92 WWIS ON 74 93 WWIS ON 74 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 95 WWIS ON 76 96 WWIS ON 76 97 ON 77 77 104 EHS ON 77 105 WWIS ON 77 106 WWIS ON 77 107 ON 77 108 WWIS ON 78 109 WWIS ON 78 109 WWIS ON 78 </td <td><u>77</u></td> <td>WWIS</td> <td></td> <td>ON</td> <td>71</td>	<u>77</u>	WWIS		ON	71
72 WWIS ON 72 80 WWIS ON 73 82 WWIS ON 73 82 WWIS ON 73 84 WWIS ON 73 89 WWIS ON 74 91 WWIS ON 74 91 WWIS ON 74 92 WWIS ON 74 93 WWIS ON 74 94 EXP KAREN WHALEN Sta KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 75 94 EXP KAREN WHALEN T53 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 94 EXP KAREN WHALEN T60 76 94 WWIS ON 77 100 WWIS ON 77 101 WWIS ON 77 102 WWIS ON 77 104 EHS ON 77 105 WWIS ON 78 108 ON 78	<u>78</u>	WWIS		ON	71
80 WWIS ON 73 82 WWIS ON 73 85 WWIS ON 73 86 WWIS ON 73 89 WWIS ON 74 91 WWIS ON 74 93 WWIS ON 74 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 75 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 96 WWIS ON 76 100 WWIS ON 76 102 WWIS ON 76 103 WWIS ON 77 104 EHS No address, property is lot 36-10 Golden Lake First Nations Territory ON 77 105 WWIS ON 77 106 WWIS ON 78 107 ON ON 77 108 WWIS ON 78 109 WWIS ON 78 109 WWIS ON 78 109 WWIS ON 78 109 WWIS ON 78	<u>79</u>	WWIS		ON	72
82 WWIS ON 73 85 WWIS ON 73 89 WWIS ON 74 91 WWIS ON 74 93 WWIS ON 74 93 WWIS ON 74 93 WWIS ON 74 93 WWIS ON 74 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 96 WWIS ON 76 77 100 WWIS ON 76 77 102 WWIS ON 77 77 104 EHS ON 77 77 105 WWIS ON 78 77 106 WWIS ON 78 77 107 ON 0N 78 77 108 WWIS ON 78 78 109 WWIS ON 78 <td><u>80</u></td> <td>WWIS</td> <td></td> <td>ON</td> <td>72</td>	<u>80</u>	WWIS		ON	72
85 WWIS ON 74 89 WWIS ON 74 91 WWIS ON 74 92 WWIS ON 74 93 WWIS ON 74 93 WWIS ON 75 94 EXP KAREN WHALEN 53 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1XO 76 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1XO 76 96 WWIS ON 76 100 WWIS ON 76 102 WWIS ON 77 104 EHS No address, property is lot 36-10 Golden Lake First Nations Territory ON 77 105 WWIS ON 78 106 WWIS ON 78 107 ON 78 108 WWIS ON 78 109 WWIS ON 79 109 WWIS ON 79 100 WWIS ON 79 1010 WWIS ON 7	<u>82</u>	WWIS		ON	73
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	<u>85</u>	WWIS		ON	73
91WWIS ON 7493WWIS ON 7594EXPKAREN WHALEN153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1XO7694EXPKAREN WHALEN153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1XO7696WWIS0N76100WWIS0N76101WWIS0N76102WWIS0N77103WWIS0N77104EHSON77105WWIS0N77106WWIS0N781070N0N78108WWIS0N79109WWIS0N79110WWIS0N79	<u>89</u>	WWIS		ON	74
93 WWIG ON 0N 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 75 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 96 WWIS ON 76 90 WWIS ON 76 100 WWIS ON 76 101 WWIS ON 77 102 WWIS ON 77 104 EHS ON 77 105 WWIS ON 77 106 WWIS ON 78 108 WWIS ON 78 109 WWIS ON 79 110 WWIS ON 79	03 <u>A1</u>	WW		ON	74
94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 96 WWIS ON 76 100 WWIS ON 76 101 WWIS ON 76 102 WWIS ON 76 103 WWIS ON 77 104 EHS ON 77 105 WWIS ON 77 106 WWIS ON 77 107 ON 77 78 108 WWIS ON 78 109 WWIS ON 78 109 WWIS ON 79 109 WWIS ON 79 110 WWIS ON 79 110 WWIS ON 79	<u>90</u>	000013		ON	75
94 EXP KAREN WHALEN 153 KOKOMIS INAMO GOLDEN LAKE ON KOJ 1X0 76 96 WWIS 0N 76 100 WWIS 0N 76 101 WWIS 0N 76 102 WWIS 0N 77 104 EHS 0N 77 105 WWIS 0N 77 106 WWIS 0N 78 108 WWIS 0N 78 109 WWIS 0N 79 109 WWIS 0N 79 100 WWIS 0N 79 101 WWIS 0N 79 102 WWIS 0N 79 103 WWIS 0N 79 104 WWIS 0N 79 105 WWIS 0N 79 106 WWIS 0N 79 107 0N 79 79 108 WWIS 0N 79 109 WWIS 0N 79	<u>94</u>	EXP	KAREN WHALEN	153 KOKOMIS INAMO GOLDEN LAKE ON K0J 1X0	75
96WWIS76100WWISON76102WWISON77104EHSON77105WWISON77106WWISON78108WWISON78109WWISON79110WWISON79	<u>94</u>	EXP	KAREN WHALEN	153 KOKOMIS INAMO GOLDEN LAKE ON K0J 1X0	76
100WWISON102WWISON104EHSNo address, property is lot 36-10 Golden Lake First Nations Territory ON77105WWISON106WWISON108WWISON109WWISON110WWISON109WWISON100WWISON100WWISON100WWISON100WWISON100WWISON100WWISON100WWISON100WWISON100WWISON	<u>96</u>	WWIS		ON	76
102WWIS77104EHSNo address, property is lot 36-10 Golden Lake First Nations Territory ON77105WWISON77106WWISON78108WWISON78109WWISON79110WWISON79	<u>100</u>	WWIS		ON	76
104EHSNo address, property is lot 36-10 Golden Lake First Nations Territory ON77105WWIS0N77106WWIS0N78108WWIS0N78109WWIS0N79110WWIS0N79	<u>102</u>	WWIS		ON	77
105 WWIS 77 106 WWIS 78 108 WWIS 78 109 WWIS 79 110 WWIS 79	<u>104</u>	EHS		No address, property is lot 36-10 Golden Lake First Nations Territory ON	77
106 WWIS ON 78 108 WWIS ON 78 109 WWIS ON 79 110 WWIS ON 79	<u>105</u>	WWIS		ON	77
108 WWIS ON 78 109 WWIS ON 79 110 WWIS ON 79	<u>106</u>	WWIS		ON	78
109 WWIS 79 0N 0N 79 110 WWIS 79	<u>108</u>	WWIS		ON	78
110 WWIS 79	<u>109</u>	WWIS		ON	79
	<u>110</u>	WWIS		ON	79

Map Key	DB	Company/Site Name	Address	Page Number
<u>115</u>	WWIS		ON	80
<u>122</u>	WWIS		ON	80
<u>122</u>	WWIS		ON	81
<u>123</u>	WWIS		ON	81
<u>123</u>	WWIS			82
<u>123</u>	WWIS			82
<u>124</u>	WWIS		UN	83
			ON	

Executive Summary: Summary By Data Source

ANDR - Anderson's Waste Disposal Sites

A search of the ANDR database, dated 1860s-Present has found that there are 1 ANDR site(s) within approximately 0.25 Kilometers of the project property.

Site	Address	<u>Map Key</u>
Golden Lk FN Dump 1979	Golden Lake ON K0J 1X0	117

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 2013 has found that there are 2 EHS site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u> Map Key</u>
	1669 Mishomis Inamo Golden Lake ON K0J 1X0	76
	No address, property is lot 36-10 Golden Lake First Nations Territory ON	104

EXP - List of TSSA Expired Facilities

A search of the EXP database, dated Current to May 2013 has found that there are 2 EXP site(s) within approximately 0.25 Kilometers of the project property.

Site	Address	<u>Map Key</u>
KAREN WHALEN	153 KOKOMIS INAMO GOLDEN LAKE ON K0J 1X0	94
KAREN WHALEN	153 KOKOMIS INAMO GOLDEN LAKE ON K0J 1X0	94

FCS - Contaminated Sites on Federal Land

A search of the FCS database, dated June 2000-Jan 2013 has found that there are 2 FCS site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	Address	<u>Map Key</u>
	Pikwakanagan (Golden Lake 39) ON	4
	Pikwakanagan (Golden Lake 39) ON	4

<u>GEN</u> - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jul 2013 has found that there are 4 GEN site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Map Key</u>
Health Canada-Algonquins of Golden Lake Health Cen	1643 Mishomis Inamo Golden Lake ON K0J 1X0	42
Health Canada-Algonquins of Golden Lake Health Cen	1643 Mishomis Inamo Golden Lake ON K0J 1X0	42
Public Health Agency of Canada	1643 Mishomis Inamo Golden Lake ON K0J 1X0	42
Health Canada-Algonquins of Golden Lake Health Cen	1643 Mishomis Inamo Golden Lake ON K0J 1X0	42

WWIS - Water Well Information System

A search of the WWIS database, dated 1955-May 2013 has found that there are 123 WWIS site(s) within approximately 0.25 Kilometers of the project property.

<u>Site</u> Address Map Key 1 ON 2 ON 3 ON 5 ON 6 ON 7 ON 8 ON 9 ON 10 ON 11 ON 12 ON 13 ON 14 ON

Address	<u>Map Key</u>
ON	15
ON	16
ON	17
ON	18
ON	19
ON	20
ON	21
ON	22
ON	23
ON	24
	25
ON .	26
ON	27
ON	28
ON	20
ON	29
ON	30
ON	31
ON	32
ON	33
ON	34
ON	35
ON	36
ON	37
	38
UN	

Address	<u>Map Key</u>
ON	39
ON	40
ON	41
ON	43
ON	44
ON	45
ON	46
ON	47
ON	48
ON	49
ON	50
ON	51
	52
ON ON	53
ON	54
ON	54
ON	55
ON	56
ON	57
ON	58
ON	59
ON	00
ON	60
ON	61
ON	62

<u>Address</u>	Map Key
ON	00
ON	64
ON	65
ON	66
ON	67
ON	68
ON	69
ON	70
ON	71
ON	72
ON	73
ON	74
ON	75
ON	77
ON	78
ON	79
ON	80
ON	81
ON	82
ON	83
ON	84
	85
	86
ON	87
ON	

<u>Address</u>	<u>Map Key</u>
ON	88
ON	89
ON	90
ON	91
ON	92
ON	93
ON	95
ON	96
ON	97
ON	98
ON	99
ON	100
	101
	102
ON	103
ON	105
ON	106
ON	107
ON	108
ON	109
ON	110
ON	
ON	111
ON	112
ON	113

<u>Address</u>	<u>Map Key</u>
ON	114
ON	115
ON	116
ON	118
ON	119
ON	120
	121
ON .	122
ON	122
ON	123
ON	120
ON	123
ON	123
ON	124
ON	125



Мар

Address: Inintig Inamo, Golden Lake, ON



Source: © 2012 DMTI Spatial Inc.



Aerial

Order No: 20131203044

Address: Inintig Inamo, Golden Lake, ON

Detail Report

Map Key Nun Rec	nber of ords	Elevation m	Site		DB
1 1 of	1	184.5	ON		<u>wwis</u>
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Methe Elevation (m): Depth to Bedrock: Water Type:	5502685 10 RENFREV 325079.7 18 Domestic 7 GPM od: Cable Too 182.17 6 FRESH	V		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	005 CON INDIAN RESERVE GOLDEN LAKE 39 5048213 margin of error : 30 m - 100 m 22-JUN-71 6 ft 9 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Details Thickness: Material Colour: + Thickness: Material Colour:	6 ft BROWN 24 ft GREY			Original Depth: Material: Original Depth: Material:	6 ft TOPSOIL 30 ft GRANITE
2 1 of	1	184.3	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Metho	5514930 10 RENFREV 325297.3 18 e: Domestic 5 GPM	V		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status:	002 CON INDIAN RESERVE GOLDEN LAKE 39 5048169 margin of error : 100 m - 300 m 13-SEP-02 5 ft 16 ft CLEAR Water Supply
Elevation (m): Depth to Bedrock: Water Type:	od: Rotary (Co 183.79 5 Not stated	onvent.)		Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	N Bedrock OPEN HOLE,STEEL
Elevation (m): Depth to Bedrock: Water Type: Details Thickness: Material Colour:	od: Rotary (Co 183.79 5 Not stated 5 ft BROWN	onvent.)		Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	N Bedrock OPEN HOLE,STEEL 5 ft GRAVEL
Elevation (m): Depth to Bedrock: Water Type: Details Thickness: Material Colour: + Thickness: Material Colour: +	od: Rotary (Co 183.79 5 Not stated 5 ft BROWN 5 ft RED	onvent.)		Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material:	N Bedrock OPEN HOLE,STEEL 5 ft GRAVEL 10 ft GRANITE

22 <u>erisinfo.com</u>| EcoLog ERIS Ltd. Golden Lake Phase I ESA Proposal Inintig Inamo Golden Lake ON

Map Key	Number Record	r of s	Elevation m	Site		E)B
+ Thickness Material C	: Colour:	77 ft WHITE			Original Depth: Material:	102 ft LIMESTONE	
3	1 of 1		178.0	ON		<u>v</u>	<u>vwis</u>
Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type.	: ter Use: Use: pacity: n Method: n): drock: ;	5516160 RENFREW 324844 18 Domestic 23 LPM Air Precuss 179.01 15 FRESH	sion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	010 INDIAN RESERVE GOLDI 5048663 23-AUG-05 73.2 m 4.3 m CLEAR Water Supply Bedrock OPEN HOLE.STEEL	EN LAKE 39
Details Thickness Material C + Thickness Material C + Thickness Material C + Thickness Material C	- Solour: Solour: Solour: Solour: Solour:	4.6 m BROWN 49.4 m RED 1.8 m RED 17.4 m WHITE			Original Depth: Material: Original Depth: Material: Original Depth: Material: Original Depth: Material:	4.6 m GRAVEL, TILL, PACKED 54 m GRANITE 55.8 m GRANITE 73.2 m GRANITE	
4	1 of 2		179.8	Pikwakana	ngan (Golden Lake 39) ON	E	<u>CS</u>

Site Id: Departmental Id: Property No.: Site Name: Location: Municipality: Census Division: Federal Electoral District: Nearest Populated Area: Longitude: Latitude: Reporting Organization: Reason for Involvement: Est m³ Contaminated: Est Ha Contaminated: Est Tons Contaminated: Site Management Strategy: Highest Step Completed: Action Plan: Additional Info:

00003720

0402392905

163 - Algonquins of Pikwakanagan - 06216 - PIKWAKANAGAN / 0402392905 Pikwakanagan (Golden Lake 39) Renfrew Renfrew--Nipissing--Pembroke -77.237723 45.563957 Aboriginal Affairs and Northern Development Canada (Indian and Inuit Affairs Program) A reserve as defined in the Indian Act 0 0 0

4 2 of 2 179.8 Provakanagan (Golden Lake 39) ON Site Id: 00006305 Departmental Id: 00006305 Property No.: 163 - Algonquins of Pikwakanagan - 06216 - PiKWAKANAGAN / 300040396 Lamachan and the set of th	Map Key	Number Record	r of s	Elevation m	Site		DB	
Site Id: 00006305 Departmental Id: 3000040396 Property No: IS3 - Algonquins of Pikwakanagan - 08216 - PiKWAKANAGAN / 3000040396 Location: Faintew Municipatity: Pikwakanagan (Golden Lake 39) Consult District: Rentrew Reporting Organization: Assission - T Advisor 77.237713 Latitude: -7.237713 Latitude: -7.237713 Latitude: -7.237713 Latitude: -7.237713 Latitude: - Aboriginal Matrix and Northern Development Canada (Indian and Inuit Affairs Program) Reserve as defined in the Indian Act Est mo Contaminated: 1 - Destaits Additional Info: - Other Galls Soil Contaminant: Soil Other Maturn: Soil Contaminant: Soil Medium: Soil Contaminant: Soil Medium: Soil Contaminant: Soil Medium: Soil Contaminant: Soil Minicipatity: Northing Ned83: Soil Contaminant: Minicipatity: Nother </td <td>4</td> <td>2 of 2</td> <td></td> <td>179.8</td> <td>Pikwakanaga</td> <td>an (Golden Lake 39) ON</td> <td><u>FCS</u></td> <td></td>	4	2 of 2		179.8	Pikwakanaga	an (Golden Lake 39) ON	<u>FCS</u>	
Property No.: Site Name: 163 - Algonquins of Pikwakanagan - 06216 - PiKWAKANAGAN / 3000040396 Location: Municipality: Pikwakanagan (Golden Lake 39) Canaus Division: Renfrew - NeipsingPembroke Nearest Populated Area: Longitude: -77 237713 Latitude: 45.663967 Latitude: -77 237713 Latitude: -77 11 Latitude: -77 11 Latitude: -77 11 Latitude: -77 11 Latitude: -7	Site Id: Department	tal Id:		00006305 3000040396				
LUcation, Lucation, Municipality::::::::::::::::::::::::::::::::::::	Property No Site Name:	D. <i>:</i>		163 - Algonquins	of Pikwakanaga	n - 06216 - PIKWAKANAG	GAN / 3000040396	
Federal Electoral District: Nearest Apoulated Area: Languide: Applicated Area: Applicated Area: Applicated Area: Applicated Area: Applicated Area: Applicated Area: Applicated Area: Applicated Area: Applicated Area: Areason of Involvement: A reserve as defined in the Indian Act Est m Contaminated: A reserve as defined in the Indian Act Est m Contaminated: A reserve as defined in the Indian Act Est m Contaminated: Areason of Involvement: A reserve as defined in the Indian Act Est m Contaminated: Areason of Involvement: Action Plan: Action Plan: Act	Municipality Census Div	r: rision:		Pikwakanagan (0 Renfrew	Golden Lake 39)			
Longitude: -77.237113 Latitude: 45.563867 Reporting Organization: Aboriginal Affairs and Northern Development Canada (Indian and Inuit Affairs Program) Reason for Involvement: A reserve as defined in the Indian Act Est m ² Contaminated: 0 Est Tons Contaminated: 0 Est Tons Contaminated: 0 Est Tons Contaminated: 0 Stile Management Strategy: Other Highest Step Completed: Classify Contaminated Site Using the CCME National Classification System Action Plan: Additional Info: Details Medium: Soil Contaminant: Heavy metals + Medium: Other 5 1 of 1 181.2 ////////////////////////////////////	Federal Ele Nearest Po	ctoral Distr pulated Are	ict: ea:	RenfrewNipissir	ngPembroke			
Reporting Organization: Aboriginal Affairs and Northern Development Canada (Indian and Inuit Affairs Program) Reason for Involvement: 1 Est m2 Contaminated: 0 St Ha Contaminated: 0 St Macontaminated: 0 Action Plan: Classify Contaminated Site Using the CCME National Classification System Action Plan: Soil Contaminant: Heavy metals + Medium: Soil Contaminant: Other Medium: Soil Concession Name: Contaminant: Other Vell Id: 5514329 Lot: 008 Concession: 10 Concession Name: CON Concession: 10 Concession Name: CON County: RENFREW Municipality: MIDIAIN RESERVE GOLDEN LAKE 39 Zone: 18 Um Reliability: Margin of error: 10 - 30 m Primary Water Use: Domestic Construction Date: 16-M	Longitude: Latitude:			-77.237713 45.563967				
Lest mr - Contaminated: 0 Est Ha Contaminated: 0 Est Tons Contaminated: 0 Site Management Strategy: Other Classify Contaminated Site Using the CCME National Classification System Action Plan: Additional Info: 	Reporting C Reason for	Drganization Involvemen	n: nt:	Aboriginal Affairs A reserve as defi	and Northern De	evelopment Canada (India Act	n and Inuit Affairs Program)	
Est Tons Contaminated: 0 Site Management Strategy: 0 Highest Step Completed: Additional Info: Details Medium: Soil Contaminant: Heavy metals + Medium: Soil Contaminant: Other 5 1 of 1 181.2 00 Well Id: 5514329 Lot: 008 Concession Name: CON Consession Name: CON Primary Water Use: Primary Water Use: Consession Name: Consession Name: Consesion Name: Consession Name: Consession Name: Consession Name: Cons	Est m ^s Con Est Ha Con	taminated: itaminated:		0				
Highest Step Completed: Classify Contaminated Site Using the CCME National Classification System Additional Info:	Est Tons Co Site Manag	ontaminate ement Stra	d: tegy:	0 Other				
Details Medium: Soil Contaminant: Heavy metails + Medium: Soil Contaminant: Soil 5 1 of 1 181.2 ON Vell Id: 5514329 Concession: 10 Concession Name: Concession Name: Concession: 008 Concession Name: Concession Name: Conversion: 008 Concession Name: Conversion: 008 Concession Name: Conversion: 008 Concession Name: Conversion: 20ne: B Lot: 008 Construction Date: 16-MAY-01 20ne: B Domestic Construction Date: 16-MAY-01 20ne: Domestic Construction Date: 16-MAY-01 Primary Water Use: Domestic Construction Date: 16-MAY-01 Pump Rate: 50 GPM Static Water Level: 26 ft Construction Method: Rotary (Convent.) Flow Mell Status: Naterial: Elevation (m): 181.2 Overburden/Bedrock: Bedrock Vater Type: Not stated Casing Material: OPEN HOLE, STEEL Details Thickness: 12 ft Material: SAND, GRAVEL, STONES * Thickness: 5 ft Original Depth: 32 ft	Highest Ste Action Plan Additional II	ep Complete : nfo:	əd:	Classify Contami	nated Site Using	the CCME National Class	ification System	
Interval Solid Contaminant: Heavy metals + Medium: Soil Other 5 1 of 1 181.2 ON Well Id: 5514329 Concession: 10 Concession: 10 Concession: 10 Concession: 10 Concession: 10 Concession: 10 Control: RENFREW Easting Nad83: 325413 Sone: 18 Um Reliability: margin of error: 10 - 30 m Primary Water Use: Domestic Sec. Water Use: Domestic Primary Water Use: Domestic Primary Water Use: Clear Cloudy: Clear R Static Water Level: Specific Capacity: Clear Cloudy: Clear R Static Water Supply Porture Nate: Sole Capacity: Poph to Bedrock: 12 Depth to Bedrock: 12 Depth to Bedrock: 12 ft Material Colour: BROWN	Details			Seil				
Medium: Contaminant:Soil Other51 of 1181.2IVIVIS51 of 1181.2ONWell Id:5514329Lot:008Concession:10Concession Name: Municipality:008Concession:10Concession Name: Municipality:008Concession:10Concession Name: Municipality:008Concession:10Concession Name: Municipality:008Concession:18Concession Name: Municipality:101AN RESERVE GOLDEN LAKE 39Zone:18Um Reliability: Well Depth:margin of error: 10 - 30 m Construction Date:16-MAY-01Primary Water Use:DomesticStatic Water Level:26 ft Clear/Cloudy:16-MAY-01Pow Rate: Specific Capacity: Construction (m):181.2Deteils: Plowing (V/n):NElevation (m):181.2Overburden/Bedrock: Casing Material:OPEN HOLE,STEEL Details Thickness:12 ft Material Colour:Original Depth: BROWN12 ft Material:* Thickness:20 ft Material Colour:GREY BROWNOriginal Depth: Material:32 ft Material:* Thickness:5 ft Material Colour:BROWNOriginal Depth: Material:37 ft Material:* Thickness:5 ft Material Colour:BROWNOriginal Depth: Material:37 ft Material:* Thickness:5 ft Material Colour:BROWNOriginal Depth: Material:37 ft Material:<	Contamin	ant:		Heavy metals				
5 1 of 1 181.2 DN Well Id: 5514329 Lot: 008 Concession: 10 Concession Name: CON County: RENFREW Municipality: INDIAN RESERVE GOLDEN LAKE 39 Basting Nad83: 325413 Software Concession Name: CON Primary Water Use: Domestic Construction Date: 16-MAY-01 static Water Level: 26 ft Pump Rate: 50 GPM Static Water Level: 26 ft Clear/Coudy: CLEAR Specific Capacity: Retary (Convent.) Flowing (y/n): N N Elevation (m): 181.2 Deverburden/Bedrock: Deverburden/Bedrock: Deverburden/Bedrock: Deverburden/Bedrock: Depth to Bedrock: 12 ft Material Colour: BROWN Material: SAND, GRAVEL, STONES * Thickness: 20 ft Material: SANDSTONE 21 ft Material Colour: GREY Material: SANDSTONE, DIRTY, SOFT * Thickness: 5 ft Original Depth: 37 ft Material Colour: BROWN Material: <t< td=""><td>Medium: Contamin</td><td>ant:</td><td></td><td>Soil Other</td><td></td><td></td><td></td><td></td></t<>	Medium: Contamin	ant:		Soil Other				
Well Id:5514329Lot:008Concession:10Concession Name:CONCounty:RENFREWMunicipality:INDIAN RESERVE GOLDEN LAKE 39Concession Mad83:325413Northing Nad83:5048235Zone:18Utrn Reliability:margin of error: 10 - 30 mPrimary Water Use:DomesticConstruction Date:16-MAY-01Pump Rate:50 GPMStatic Water Level:26 ftFlow Rate:Societic:Clear/Cloudy:CLEARSpecific Capacity:Rotary (Convent.)Flowing (y/n):NConstruction Method:181.2Overburden/Bedrock:BedrockPump Rate:12Overburden/Bedrock:BedrockPopt to Bedrock:12Overburden/Bedrock:BedrockPuter Type:No tsatedOriginal Depth:12 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+Thickness:5 ftOriginal Depth:37 ft+Thickness:5 ftOriginal Depth:37 ft </th <th>5</th> <th>1 of 1</th> <th></th> <th>181.2</th> <th>ΟΝ</th> <th></th> <th><u>WWIS</u></th> <th></th>	5	1 of 1		181.2	ΟΝ		<u>WWIS</u>	
Concession:10Concession Name:CONCounty:RENFREWMunicipality:INDIAN RESERVE GOLDEN LAKE 39Easting Nad83:325413Northing Nad83:5048235Zone:18Utm Reliability:margin of error : 10 - 30 mPrimary Water Use:DomesticConstruction Date:16-MAY-01Sec. Water Use:DomesticClear/Cloudy:CLEARPump Rate:50 GPMStatic Water Level:26 ftFlow Rate:Specific Capacity:Clear/Cloudy:CLEARSpecific Capacity:Final Well Status:Water SupplyConstruction Method:Rotary (Convent.)Flowing (y/n):NElevation (m):181.2Elevation Reliability:Depth to Bedrock:12Overburden/Bedrock:BedrockWater Type:Not statedCasing Material:OPEN HOLE,STEEL DetailsThickness:12 ftMaterial:Thickness:12 ftOriginal Depth:32 ftMaterial Colour:BROWNMaterial:SAND, GRAVEL, STONES+Thickness:5 ftOriginal Depth:37 ftThickness:5 ftOriginal Depth:37 ftHaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+Thickness:5 ftOriginal Depth:37 ftHThickness:17 stOriginal Depth:210 ft	Well Id:		551432	9		Lot:	008	
Easting Nadas:325413Northing Nadas:5048235Zone:18Utm Reliability:margin of error: 10 - 30 mPrimary Water Use:DomesticConstruction Date:16-MAY-01Sec. Water Use:Well Depth:37 ftPump Rate:50 GPMStatic Water Level:26 ftFlow Rate:Clear/Cloudy:CLEARSpecific Capacity:Final Well Status:Water SupplyConstruction Method:Rotary (Convent.)Flowing (y/n):NElevation (m):181.2Elevation Reliability:OPEN HOLE,STEELDepth to Bedrock:12Overburden/Bedrock:BedrockWater Type:Not statedCasing Material:OPEN HOLE,STEEL DetailsThickness:12 ftOriginal Depth:12 ftMaterial Colour:BROWNMaterial:SAND, GRAVEL, STONES+Thickness:5 ftOriginal Depth:32 ftMaterial Colour:GREYMaterial:LIMESTONE+Thickness:5 ftOriginal Depth:37 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+Thickness:5 ftOriginal Depth:37 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+Thickness:173 ftOriginal Depth:210 ft	Concession County:	1:	10 RENFR	EW		Concession Name: Municipality:	CON INDIAN RESERVE GOLDEN LAKE	39
Primary Water Use:DomesticConstruction Date:16-MAY-01Sec. Water Use:50 GPMWell Depth:37 ftPump Rate:50 GPMStatic Water Level:26 ftFlow Rate:Clear/Cloudy:CLEARSpecific Capacity:Final Well Status:Water SupplyConstruction Method:Rotary (Convent.)Flowing (y/n):NElevation (m):181.2Elevation Reliability:Depth:Depth to Bedrock:12Overburden/Bedrock:BedrockWater Type:Not statedCasing Material:OPEN HOLE,STEEL DetailsThickness:12 ftOriginal Depth:12 ftMaterial Colour:BROWNMaterial:SAND, GRAVEL, STONES+Thickness:20 ftOriginal Depth:32 ftMaterial Colour:GREYMaterial:S1 ftUIMESTONE+Thickness:5 ftOriginal Depth:37 ftThickness:173 ftOriginal Depth:210 ft	Zone:	a83:	325413 18			Utm Reliability:	5048235 margin of error : 10 - 30 m	
Pump Rate:50 GPMStatic Water Level:26 ftFlow Rate:Clear/Cloudy:CLEARSpecific Capacity:Final Well Status:Water SupplyConstruction Method:Rotary (Convent.)Flowing (y/n):NElevation (m):181.2Overburden/Bedrock:BedrockDepth to Bedrock:12Overburden/Bedrock:BedrockWater Type:Not statedCasing Material:OPEN HOLE,STEEL DetailsThickness:12 ftOriginal Depth:12 ftMaterial Colour:BROWNMaterial:SAND, GRAVEL, STONES+Thickness:20 ftOriginal Depth:32 ftMaterial Colour:GREYMaterial:32 ft+Thickness:5 ftOriginal Depth:37 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+Thickness:173 ftOriginal Depth:210 ft	Primary Wa Sec. Water	ater Use: Use:	Domest	lic		Construction Date: Well Depth:	16-MAY-01 37 ft	
Specific Capacity:Final Well Status:Water SupplyConstruction Method:Rotary (Convent.)Flowing (y/n):NElevation (m):181.2Elevation Reliability:BedrockDepth to Bedrock:12Overburden/Bedrock:BedrockWater Type:Not statedCasing Material:OPEN HOLE,STEEL DetailsThickness:12 ftOriginal Depth:12 ftMaterial Colour:BROWNMaterial:SAND, GRAVEL, STONES+Thickness:20 ftOriginal Depth:32 ftMaterial Colour:GREYMaterial:UIMESTONE+Thickness:5 ftOriginal Depth:37 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+Thickness:173 ftOriginal Depth:210 ft	Pump Rate Flow Rate:	:	50 GPN	1		Static Water Level: Clear/Cloudy:	26 ft CLEAR	
Elevation (m):181.2Elevation Reliability: Overburden/Bedrock:BedrockDepth to Bedrock:12Overburden/Bedrock: Casing Material:Bedrock OPEN HOLE,STEEL Details Thickness:12 ftOriginal Depth: Material Colour:12 ftMaterial Colour:BROWNMaterial:SAND, GRAVEL, STONES+ Thickness:20 ftOriginal Depth: Material Colour:32 ft+ Thickness:5 ftOriginal Depth: Material:37 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+ Thickness:5 ftOriginal Depth: Material:37 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+ Thickness:173 ftOriginal Depth: Material:210 ft	Specific Ca Constructio	pacity: n Method:	Rotary	(Convent.)		Final Well Status: Flowing (y/n):	Water Supply N	
Water Type:Not statedCasing Material:OPEN HOLE,STEEL Details Thickness:12 ftOriginal Depth: Material Colour:12 ftMaterial Colour:BROWNMaterial:SAND, GRAVEL, STONES+ Thickness:20 ftOriginal Depth: Material:32 ftMaterial Colour:GREYOriginal Depth: Material:37 ft+ Thickness:5 ftOriginal Depth: Material:37 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT+ Thickness:173 ftOriginal Depth: Material:210 ft	Elevation (n Depth to Be	n): edrock:	181.2 12			Elevation Reliability: Overburden/Bedrock:	Bedrock	
Details Thickness: 12 ft Original Depth: 12 ft Material Colour: BROWN Material: SAND, GRAVEL, STONES + Thickness: 20 ft Original Depth: 32 ft Material Colour: GREY Material: LIMESTONE + Thickness: 5 ft Original Depth: 37 ft Material Colour: BROWN Material: SANDSTONE, DIRTY, SOFT + Thickness: 173 ft Original Depth: 210 ft	Water Type) <u>;</u>	Not stat	ted		Casing Material:	OPEN HOLE,STEEL	
Material Colour:BROWNMaterial:SAND, GRAVEL, STONES+Thickness:20 ftOriginal Depth:32 ftMaterial Colour:GREYMaterial:LIMESTONE+Thickness:5 ftOriginal Depth:37 ftMaterial Colour:BROWNMaterial:SAND, GRAVEL, STONES+Thickness:173 ftOriginal Depth:210 ft	Details Thickness	 S:	12 ft			Oriainal Depth:	12 ft	
Thickness:20 ftOriginal Depth:32 ftMaterial Colour:GREYMaterial:LIMESTONE+Thickness:5 ftOriginal Depth:37 ftMaterial Colour:BROWNMaterial:SANDSTONE, DIRTY, SOFT++Thickness:173 ftOriginal Depth:210 ft	Material C +	Colour:	BROWI	N		Material:	SAND, GRAVEL, STONES	
+ Thickness: 5 ft Original Depth: 37 ft Material Colour: BROWN Material: SANDSTONE, DIRTY, SOFT + Thickness: 173 ft Original Depth: 210 ft	Thickness Material C	s: Colour:	20 ft GREY			Original Depth: Material:	32 ft LIMESTONE	
+ <i>Thickness:</i> 173 ft <i>Original Depth:</i> 210 ft	+ Thickness Material C	s: Colour:	5 ft BROWI	N		Original Depth: Material:	37 ft SANDSTONE, DIRTY, SOFT	
	+ Thickness	S.	173 ft			Original Depth:	210 ft	

Мар Кеу	Numbe Record	r of 's	Elevation m	Site		DB
Material (Colour:	GREY			Material:	LIMESTONE
, Thicknes	s:	7 ft			Original Depth:	217 ft
Material (Colour:	BLACK			Material:	GRANITE
6	1 of 1		180.0			<u>WWIS</u>
				ON		
Well Id:		7184485			Lot:	
Concession	ז:		1		Concession Name:	
Easting Na	483.	325519	I		Northing Nad83 [.]	INDIAN RESERVE GOLDEN LARE 39
Zone:	u00.	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Wa	ater Use:				Construction Date:	26-JUN-12
Sec. Water	Use:				Well Depth:	
Pump Rate	:				Static Water Level:	
Flow Rate:					Clear/Cloudy:	
Specific Ca	pacity:				Final Well Status:	
Construction	n Method:				Flowing (y/n):	
Depth to R	n). Arock				Dverburden/Bedrock:	
Water Type); ;				Casing Material:	
71					<u> </u>	
7	1 of 1		190.0			<u>WWIS</u>
				ON		
Well Id:		5515569			Lot:	006
Concession	ו:	10			Concession Name:	CON
County:		RENFREW	/		Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Na	d83:	324075			Northing Nad83:	5048390
Zone. Primary Wa	ator I loo	10 Domestic			Construction Date:	
Sec. Water	Use:	Domestic			Well Depth:	61 m
Pump Rate	:	27 LPM			Static Water Level:	3.5 m
Flow Rate:					Clear/Cloudy:	CLEAR
Specific Ca	pacity:				Final Well Status:	Water Supply
Constructio	on Method:	Air Precus	sion		Flowing (y/n):	
Elevation (i	n): - dro elu	188.51			Elevation Reliability:	Dedreek
Depth to Be	Эarock:	0 Not stated	Not stated		Overburden/Bedrock:	
	<i>.</i>	Not Stated,	NUL SIALEU		Casing Material.	OF ENHICLE, STELL
Detalls - Thicknes	 s:	1.8 m			Original Denth	1.8 m
Material (s. Colour:	GREY			Material:	BOULDERS
+						
Thicknes	s:	10.4 m			Original Depth:	12.2 m
Material (Colour:	GREY			Material:	GRANITE
+ Thistory	~	10.0			Original Darth	61 -
I NICKNES	S. Colour:	48.8 M			Original Depth: Matarial:	
	<i>Joiour.</i>	GRET			Material.	GRANITE
8	1 of 1		176.6			<u>WWIS</u>
				ON		
Well Id:		7194149			Lot:	
Concession	ז:		1		Concession Name:	
Easting No	d83 [.]	325083	I		Northing Nad83	5048850
		020000			1401011119140000.	
				_		

Map Key Number Records	of G	Elevation m	Site		DB	
Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	18			Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	margin of error : 30 m - 100 m 24-OCT-12	
9 1 of 1		186.0	ON		<u>wwis</u>	
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	5514830 10 RENFREW 324252.3 18 Domestic 5 GPM Air Precuss 186.14 8 Not stated	ion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	006 CON INDIAN RESERVE GOLDEN LA 5048706 margin of error : 100 m - 300 m 13-AUG-02 80 ft 21 ft Water Supply N Bedrock OPEN HOLE STEEL	AKE 39
Details Thickness: Material Colour:	8 ft BROWN			Original Depth: Material:	8 ft SAND, STONES	
+ Thickness: Material Colour: + -	72 ft GREY			Original Depth: Material:	80 ft GRANITE	
Thickness: Material Colour:	142 ft RED			Original Depth: Material:	GRANITE	
10 1 of 1		181.0	ON		<u>wwis</u>	
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	7162479 RENFREW 324482 18 Domestic 91 LPM Cable Tool Untested			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	INDIAN RESERVE GOLDEN LA 5048862 margin of error : 10 - 30 m 05-APR-11 44.9 m 2.39 m CLEAR Water Supply OPEN HOLE,STEEL	AKE 39
Details Thickness:	1.5 m			Original Depth:	1.5 m	

Map Key	Numbe Record	r of s	Elevation m	Site		DB						
Material C	olour:	GREY			Material:	CLAY, BOULDERS						
+ Thickness. Material C	: olour:	24.3 m GREY			Original Depth: Material:	25.8 m GRANITE, GRANITE, HARD						
+ Thickness. Material C	: olour:	2.1 m WHITE			Original Depth: Material:	27.9 m LIMESTONE, GRANITE, POROUS						
Thickness. Material C	: olour:	17 m GREY			Original Depth: Material:	44.9 m GRANITE						
11	1 of 1		190.4	ON		<u>WWIS</u>						
Well Id:		5515565			Lot:							
Concession: County: Easting Nad Zone: Primary Wat	183: ter I Ise:	RENFREV 324057 18 Not Used	V		Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date:	INDIAN RESERVE GOLDEN LAKE 39 5048459 margin of error : 100 m - 300 m 09- II IN-04						
Sec. Water I Pump Rate: Flow Rate: Specific Cap	Use: Dacity:	25 LPM			Well Depth: Static Water Level: Clear/Cloudy: Final Well Status:	79.3 m 2.3 m CLOUDY Water Supply						
Construction Elevation (m Depth to Beo Water Type:	n Method: n): drock:	Rotary (Co 191.06 35 Not stated	onvent.) ,Not stated		Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL						
Details Thickness Material C	- : olour:	10.7 m GREY			Original Depth: Material:	10.7 m CLAY, SAND, HARDPAN						
+ Thickness. Material C	: olour:	16.7 m RED			Original Depth: Material:	27.4 m GRANITE, SOFT						
т Thickness. Material C	: olour:	51.9 m RED			Original Depth: Material:	79.3 m GRANITE						
12	1 of 1		177.2	ON		<u>wwis</u>						
Well Id:		5502994			l ot:	006						
Concession: County: Easting Nad	183:	09 RENFREV 325557.7	V		Concession Name: Municipality: Northing Nad83:	CON INDIAN RESERVE GOLDEN LAKE 39 5048424						
Zone: Primary Wat Sec. Water I	ter Use: Use:	18 Domestic			<i>Utm Reliability:</i> Construction Date: Well Depth:	margin of error : 30 m - 100 m 05-DEC-72 96 ft						
Pump Rate: Flow Rate: Specific Cap	oacity:	24 GPM			Static Water Level: Clear/Cloudy: Final Well Status:	5 ft CLEAR Water Supply						
Construction Elevation (m Depth to Bee	n Method: n): drock:	Cable Toc 179.74 16	I		Flowing (y/n): Elevation Reliability: Overburden/Bedrock:	N Bedrock						
Water Type:		FRESH			Casing Material:	OPEN HOLE,STEEL						
Details Thickness Material C	- : :olour:	16 ft BROWN			Original Depth: Material:	16 ft SAND, BOULDERS						
27	<u>erisinfo</u> Golden	. <u>com</u> Eco Lake Pha	Log ERIS Lta ase I ESA Pro	27 <u>erisinfo.com</u> EcoLog ERIS Ltd. Order #: 20131203044 Golden Lake Phase LESA Proposal Iniptig Inamo Golden Lake ON								

Мар Кеу	Numbei Record	r of s	Elevation m	Site		DB
+ Thickness: Material Co	olour:	24 ft RED			Original Depth: Material:	40 ft SANDSTONE, SHALE
+ Thickness: Material Co	olour:	56 ft BROWN			Original Depth: Material:	96 ft SANDSTONE
+ Thickness: Material Co	olour:	9 ft BROWN			Original Depth: Material:	105 ft LIMESTONE
Thickness: Material Co	olour:	5 ft GREY			Original Depth: Material:	110 ft LIMESTONE, SHALE
13	1 of 1		175.0	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nada Zone: Primary Wat Sec. Water O Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bed Water Type: Details Thickness: Material Co + Thickness: Material Co + Thickness: Material Co	83: er Use: Jse: Jse: acity: Method:): drock: clrock: clour: clour: clour: clour:	5515874 10 RENFREW 325318 18 Domestic 41 LPM Rotary (Co 176.22 11 FRESH 3.35 m BROWN 3.65 m WHITE .3 m GREY 4.9 m WHITE	/ nvent.)		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material: Original Depth: Material: Original Depth: Material:	007 CON INDIAN RESERVE GOLDEN LAKE 39 5048791 margin of error : 10 - 30 m 19-NOV-04 7.3 m 5.47 m CLEAR Water Supply Bedrock OPEN HOLE 3.35 m SAND, COARSE GRAVEL, LOOSE 7 m DOLOMITE, SOFT 7.3 m DOLOMITE, FRACTURED 12.2 m DOLOMITE, , SOFT
14	1 of 1		186.0	ΟΝ		<u>WWIS</u>
Well Id: Concession: County: Easting Nada Zone: Primary Wat Sec. Water U Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bed	83: er Use: Use: nacity: Method: i): drock:	7168949 RENFREW 325640 18 Domestic 1.5 GPM Rotary (Co	/ nvent.)		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock:	INDIAN RESERVE GOLDEN LAKE 39 5048031 margin of error : 10 - 30 m 29-AUG-11 6 ft 34 ft CLEAR Water Supply Y

Map Key Number of Records		r of s	Elevation m	Site		DB
Water Type:		Not stated			Casing Material:	STEEL
Details Thickness: Material Co	olour:	6 ft BROWN			Original Depth: Material:	6 ft TOPSOIL, STONES, SAND
Material Co +	olour:	4 π BROWN			Original Depth: Material:	10 π GRAVEL, BOULDERS, HARD
Thickness: Material Co +	olour:	115 ft GREY			Original Depth: Material:	125 ft GRANITE
Thickness: Material Co	olour:	173 ft RED			Original Depth: Material:	298 ft GRANITE, , SOFT
15	1 of 1		176.7	ON		<u>WWIS</u>
		5500557			1 - 6	000
Concession: County: Easting Nada	83:	5502557 10 RENFREW 325519.7			Lot: Concession Name: Municipality: Northing Nad83: Utm Peliability:	CON INDIAN RESERVE GOLDEN LAKE 39 5048573
Primary Wate Sec. Water L	er Use: Jse:	Domestic			Construction Date: Well Depth:	13-JUN-70 14 ft
Flow Rate: Specific Cap	acity: Mothod:				Clear/Cloudy: Final Well Status:	CLEAR Water Supply
Elevation (m) Depth to Bec): lrock:	178.09 14			Elevation Reliability: Overburden/Bedrock:	Bedrock
Detaile		FRESH			Casing Material.	OPEN HOLE, STEEL
Thickness: Material Co	olour:	14 ft BROWN			Original Depth: Material:	14 ft TOPSOIL, MEDIUM SAND
Thickness: Material Co	olour:	108 ft GREY			Original Depth: Material:	122 ft GRANITE
16	1 of 1		187.0	ON		<u>wwis</u>
Well Id:		5503236			Lot:	010
Concession:		10			Concession Name:	CON
County:		RENFREW			Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Nada	83:	323947.6			Northing Nad83:	5048370
Zone:		18 Dama etia			Utm Reliability:	margin of error : 30 m - 100 m
Primary Wate	er Use:	Domestic			Construction Date:	25-SEP-73
Pump Rate: Flow Rate:	JSE.	18 GPM			Static Water Level: Clear/Cloudy:	13 ft CLEAR
Specific Cap	acity:				Final Well Status:	Water Supply
Construction	Method:	Cable Tool			Flowing (y/n):	Ν
Elevation (m)): trock:	185.65 10			Elevation Reliability:	Rodrock
Water Type:	IIOCK.	FRESH			Casing Material:	OPEN HOLE,STEEL
Details Thickness:		10 ft			Original Depth:	10 ft
						- · ·

Мар Кеу	Number Records	r of s	Elevation m	Site			DB
Material Co	olour:	BROWN			Material:	OVERBURDEN, GRAVE	EL, SAND
Thickness: Material Co	olour:	5 ft BLACK			Original Depth: Material:	15 ft GRANITE	
Thickness: Material Co	olour:	8 ft BROWN			Original Depth: Material:	23 ft SANDSTONE	
Thickness: Material Co	olour:	22 ft WHITE			Original Depth: Material:	45 ft SANDSTONE	
т Thickness: Material Co	olour:	76 ft WHITE			Original Depth: Material:	121 ft LIMESTONE	
17	1 of 1		182.6	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nada Zone: Primary Wata Sec. Water U Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Beco Water Type:	83: er Use: Jse: acity: Method:): Irock:	5507288 09 RENFREW 325671 18 Domestic 10 GPM Cable Tool 183.32 5 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	022 CON SOUTH ALGONA 5048175 margin of error : 10 - 30 04-NOV-83 5 ft 12 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL	m
Details Thickness: Material Co + Thickness: Material Co +	blour: blour:	5 ft BROWN 147 ft BLACK			Original Depth: Material: Original Depth: Material:	5 ft SAND, LOOSE 152 ft GRANITE, DENSE	
Thickness: Material Co	olour:	26 ft RED			Original Depth: Material:	178 ft GRANITE, HARD	
18	1 of 1		180.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nada	83 <i>:</i>	5516598 RENFREW 324121			Lot: Concession Name: Municipality: Northing Nad83:	006 INDIAN RESERVE GOL 5048721	DEN LAKE 39

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Air Precussion

18

Domestic

35 LPM

182.34

FRESH

15

Zone:

Primary Water Use:

Sec. Water Use:

Specific Capacity:

Depth to Bedrock:

Elevation (m):

Water Type:

Construction Method:

Pump Rate:

Flow Rate:

Inintig Inamo Golden Lake ON

Utm Reliability:

Well Depth:

Clear/Cloudy:

Flowing (y/n):

Construction Date:

Static Water Level:

Final Well Status:

Casing Material:

Elevation Reliability:

Overburden/Bedrock:

Order #: 20131203044

margin of error : 10 - 30 m

12-OCT-06

Water Supply

OPEN HOLE, STEEL

91.5 m

3.7 m

CLEAR

Bedrock

Мар Кеу	Number Records	r of S	Elevation m	Site			DB
Details Thickness: Material Co	olour:	4.6 m BROWN			Original Depth: Material:	4.6 m SAND, STONES	
+ Thickness: Material Co	olour:	18.6 m WHITE			Original Depth: Material:	23.2 m GRANITE	
Thickness: Material Co	olour:	37.8 m RED			Original Depth: Material:	61 m GRANITE	
Thickness: Material Co	olour:	30.5 m GREY			Original Depth: Material:	91.5 m GRANITE	
19	1 of 1		189.7	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nada Zone: Primary Wata Sec. Water U Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bec Water Type: Details Thickness: Material Co + Thickness: Material Co + Thickness: Material Co	83: er Use: Jse: Jse: acity: Method: Method: irock: blour: blour: blour:	5516180 05 RENFREW 323979 18 Domestic 21 LPM Air Precuss 189.53 22 6.7 m BROWN 81.7 m WHITE 9.2 m RED 24.4 m GREY	ion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material: Original Depth: Material: Original Depth: Material:	006 CON INDIAN RESERVE GOI 5048527 18-AUG-05 97.6 m 4.2 m CLEAR Water Supply Bedrock OPEN HOLE,STEEL 6.7 m SAND, TILL 88.4 m LIMESTONE 97.6 m GRANITE 122 m GRANITE	.DEN LAKE 39
20	1 of 1		187.1	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nade Zone: Primary Wate Sec. Water L Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bec	83: er Use: Jse: acity: Method:): Irock:	5504303 10 RENFREW 323929.6 18 Domestic 5 GPM Rotary (Air) 185.25 3			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock:	008 CON INDIAN RESERVE GOI 5048473 margin of error : 100 m 22-JUN-76 306 ft 16 ft Water Supply N Bedrock	-DEN LAKE 39 - 300 m

Мар Кеу	Number Record	r of s	Elevation m	Site		DB
Water Type:		FRESH			Casing Material:	STEEL
Details Thickness: Material Col	our:	3 ft RED			Original Depth: Material:	3 ft OVERBURDEN, STONES
+ Thickness: Material Col	our:	294 ft GREY			Original Depth: Material:	297 ft ROCK
+ Thickness: Material Col	our:	9 ft RED			Original Depth: Material:	306 ft ROCK
21	1 of 1		179.0	ON		<u>WWIS</u>
Well Id:		5516599			Lot:	006
Concession: County: Easting Nad8: Zone: Primary Water Sec. Water Us Pump Rate: Flow Rate:	3: r Use: se:	RENFREW 324109 18 Domestic 30 LPM			Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy:	INDIAN RESERVE GOLDEN LAKE 39 5048756 margin of error : 10 - 30 m 13-OCT-06 85.7 m 12.1 m CLEAR
Specific Capa Construction N Elevation (m): Depth to Bedr Water Type:	city: Method: ock:	Air Precuss 180.47 14	ion		Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL
Details Thickness: Material Col	our:	4.3 m BROWN			Original Depth: Material:	4.3 m SAND, STONES
+ Thickness: Material Col	our:	19.2 m RED			Original Depth: Material:	23.5 m GRANITE
+ Thickness: Material Col +	our:	62.2 m RED			Original Depth: Material:	85.7 m GRANITE
Thickness: Material Col	our:	-73.5 m WHITE			Original Depth: Material:	12.2 m DOLOMITE
22	1 of 1		173.0	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad83 Zone: Primary Water Sec. Water Us Pump Rate: Flow Rate: Specific Capa Construction M Elevation (m): Depth to Bedr	3: r Use: se: city: Method: ock:	5515537 10 RENFREW 325041 18 Domestic 45.5 LPM 174.36			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock:	CON INDIAN RESERVE GOLDEN LAKE 39 5049045 margin of error : 100 m - 300 m 05-APR-04 80.2 m 3.4 m Water Supply Overburden
Water Type:		FRESH			Casing Material:	OPEN HOLE,STEEL

Map Key	Map Key Number of Records		Elevation m	Site		DB
Details Thickness Material C	- :: Solour:	80.2 m			Original Depth: Material:	80.2 m PREV. DRILLED
23	1 of 1		174.6	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water V Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bed Water Type: Details Thickness Matorial C	: ter Use: Use: Dacity: n Method: n): drock: : -	5515567 10 RENFREW 325144 18 Domestic 25 LPM Air Precus: 174.97 7 Not stated, 2.1 m RROWN	/ sion Not stated		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	011 CON INDIAN RESERVE GOLDEN LAKE 39 5049019 margin of error : 100 m - 300 m 08-JUN-04 30.5 m 3.7 m CLEAR Water Supply Bedrock OPEN HOLE,STEEL 2.1 m
Haterial C + Thickness Material C + Thickness	:: Colour:	13.1 m GREY 15.3 m			Material. Original Depth: Material: Original Depth:	15.2 m LIMESTONE 30.5 m
Material C	Colour:	GREY			Material:	GRANITE
24	1 of 1		175.0	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water I Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Be Water Type:	: ter Use: Use: pacity: n Method: n): drock: :	5503569 10 RENFREW 325315.7 18 Domestic 4 GPM Rotary (Air 175.69 29 FRESH)		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	011 CON INDIAN RESERVE GOLDEN LAKE 39 5048962 margin of error : 30 m - 100 m 19-JUN-74 61 ft 19 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Thickness Material C +	: Colour:	29 ft RED			Original Depth: Material:	29 ft SAND, STONES
Thickness Material C +	: Colour:	32 ft BLACK			Original Depth: Material:	61 ft GRANITE
Thickness Material C	: Colour:	59 ft RED			Original Depth: Material:	120 ft GRANITE

Мар Кеу	Number Records	r of s	Elevation m	Site			DB
+ Thickness: Material Co	lour:	25 ft BROWN			Original Depth: Material:	145 ft SANDSTONE	
25	1 of 1		186.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nad8 Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction I Elevation (m). Depth to Bedi Water Type: Details Thickness: Material Co + Thickness:	13: er Use: lse: acity: Method: : rock: lour:	5516496 10 RENFREW 323954 18 Domestic 35 LPM Air Precuss 186.78 14 FRESH 4.3 m BROWN 25.3 m	ion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	005 CON INDIAN RESERVE GOL 5048707 margin of error : 10 - 30 01-AUG-06 61 m 6.43 m CLEAR Water Supply Bedrock OPEN HOLE,STEEL 4.3 m SAND, TILL, STONES 29.6 m	DEN LAKE 39 m
Material Co. + Thickness:	lour:	VHITE			Original Depth: Material: Original Depth:	29.0 m DOLOMITE 36.9 m	
Material Co. + Thickness: Material Co.	iour: lour:	24.1 m WHITE			Material: Original Depth: Material:	61 m DOLOMITE	
26	1 of 1		173.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nad8 Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m). Depth to Bedi Water Type: Details Thickness:	r3: 'se: 'se: acity: Method: : rock:	5502295 09 RENFREW 325549.7 18 Domestic 9 GPM Cable Tool 172.3 6 FRESH 6 ft			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	006 CON INDIAN RESERVE GOL 5048813 margin of error : 30 m - 7 25-JUL-69 80 ft 15 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL	DEN LAKE 39 100 m
Material Co + Thickness: Material Co +	lour: lour:	64 ft			Material: Original Depth: Material:	HARDPAN 70 ft ROCK	

Thickness: 10 ft Original Depth: 80 ft 27 1 of 1 179.8 Material: SHALE 27 1 of 1 179.8 0N 023 Well Id: 7114461 Concession Name: 023 Concession: RENRERW Monthingtage NORTH ALGONA Thickness: Domestic Construction Mathed: NORTH ALGONA Soc. Water Use: Domestic Construction Depth: 178.72 Soc. Water Use: Domestic Construction Reliability: Construction Depth: 178.72 Specific Capacity: 178.72 State Water Level: CLEAR CLEAR Flow Rate: Specific Capacity: FRESH, Untested, FRESH, Untested Clear Cloudy: Original Depth: 51 ft Material Colour: 6 ft Original Depth: 59 ft State Water Level: Clear R Thickness: 6 ft Original Depth: 59 ft Material: State State: Material Colour: 6 4 ft Original Depth: Material: GRANITE, MEDIUM GRAVEL * Thickness: 5 ft Material: GRANITE, MEDIUM GRAVEL * Thickness: 5 ft Material: GRANITE, SOFT * Thickness:	Map Key Number Records		r of s	Elevation m	Site		DB
27 1 of 1 178.8 WWS Well Id: Concession County: Sector Sector Purp Pate: 7114461 Cor. Concession Concession Sector Purp Pate: 023 The Pate: No PTF 14 LGON Sector Purp Pate:	Thickness Material C	: Colour:	10 ft GREEN			Original Depth: Material:	80 ft SHALE
Well dt: Concession: Conty: 7114461 Lot: Concession Name: Municipality: 023 Concession Name: Municipality: NORTH ALCONA Safado Safado Martinal Media: NORTH ALCONA Safado Safado Martinal Media: NORTH ALCONA Safado Safado Martinal Media: NORTH ALCONA Safado Martinal Media: Finang Water Use: Domestic Concession Name: Generot: Lowel Flow Rate: NORTH ALCONA Safado Martinal Media: NORTH ALCONA Safado Martinal Media: Specific Capacity: Construction Mediad Flow Rate: 10 GPM State Water Use: State Water Use: Franz Well Status: Franz Well Colour: S ft Status: Status: Franz Well Mellohity: Overburden/Bedrock: All Precussion Material Colour: S ft Status: Franz Well Mellohity: Well Colour: S ft Material Colour: Material S ft Original Depth: Material Colour: S ft Material Colour: Material S ft Material S ft Material S ft Material S ft Material S ft Material S ft Material Colour: Thickness: Thickness: S ft Material Colour: S ft <	27	1 of 1		179.8	ON		<u>WWIS</u>
Details Thickness: 5 ft Material Colour: GREY Original Depth:: 5 ft Material: 5 ft Material Colour: + Thickness: 5 4 ft Material Colour: Original Depth:: 5 9 ft Material: LIMESTONE, GRAVEL, FILL + Thickness: 5 ft Material Colour: WHITE Original Depth:: 64 ft Material: + Thickness: 3 8 ft Material Colour: Original Depth:: 102 ft Material: GRANITE, MEDIUM GRAVEL + Thickness: 3 8 ft Material Colour: GREY Material: GRANITE, MEDIUM GRAVEL + Thickness: 3 8 ft Material Colour: Original Depth:: 102 ft Material: GRANITE, MEDIUM GRAVEL + Thickness: 3 ft Material Colour: WHITE Material: GRANITE, MEDIUM GRAVEL + Thickness: 16 ft Original Depth:: 102 ft Material: MEDIUM GRAVEL 28 1 of 1 195.7 ON WWIS Well Id: 7109115 Lot: O10 Concession: 10 Concession Name: ON Concession: 18 Construction Date: 02-AU-07 Primary Water Use: Commerical Static Water Level: 5.1.3 m	Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type.	: ter Use: Use: pacity: n Method: n): drock: :	7114461 RENFREW 325846 18 Domestic 10 GPM Air Precuss 178.72 FRESH,Ur	/ sion itested,FRESH,	Untested	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	023 NORTH ALGONA 5047914 margin of error : 10 - 30 m 02-AUG-08 64 ft 17.6 ft CLEAR Water Supply OPEN HOLE,STEEL
Thickness: 5 ft Original Depth: 64 ft Material Colour: RED Material: GRANITE, , MEDIUM GRAVEL Thickness: 38 ft Original Depth: 102 ft Material Colour: GREY Material: GRANITE, , SOFT * Thickness: 3 ft Original Depth: 102 ft Material Colour: WHITE Material: GRANITE, , SOFT * Thickness: 3 ft Original Depth: 105 ft Material Colour: WHITE Material: MEDIUM GRAVEL * Thickness: 15 ft Original Depth: 120 ft Material Colour: GREY ON WWIS WWIS 28 1 of 1 195.7 ON CON Well Id: 7109115 Lot: 010 CON Concession: 10 Concession Name: CON CON Easting Nad83: 323710 Northing Nad83: 5048199 Sod8199 Zone: 18 Conservation Mates: 02-AUG-07 Static Water Level: 6.16 m Primay Water Use: <	Details Thickness Material C + Thickness Material C	- Solour: Solour: Solour:	5 ft GREY 54 ft WHITE			Original Depth: Material: Original Depth: Material:	5 ft STONES, GRAVEL, FILL 59 ft LIMESTONE, , MEDIUM GRAVEL
* Trickness: 38 ft Original Depth: 102 ft Material Colour: GREY Material: GRANITE,, SOFT * Trickness: 3 ft Original Depth: 105 ft Material Colour: WHITE Material: GRANITE,, SOFT * Trickness: 15 ft Material: MEDIUM GRAVEL * Trickness: 15 ft Original Depth: 120 ft Material Colour: GREY Material: GRANITE,, MEDIUM GRAVEL 28 1 of 1 195.7 Material: O10 Concession: 10 Concession Name: ON County: RENFREW Municipality: INDIAN RESERVE GOLDEN LAKE 39 Easting Nad83: 323710 Northing Nad83: 5048199 Zone: 18 Utm Reliability: margin of error : 10 - 30 m Primary Water Use: Commerical Construction Date: 02-40G-07 Sec. Water Use: Yell Depth: 51.3 m GrearCloudy: Pump Rate: 18 LPM Static Water Level: 6.16 m Flow Rate: 197.07 Elevation Reliability: OPEN HOLE,STEEL	+ Thickness Material C	: Colour:	5 ft RED			Original Depth: Material:	64 ft GRANITE, , MEDIUM GRAVEL
Thickness: Material Colour:3 ft WHITEOriginal Depth: Material:105 ft MEDIUM GRAVEL* Thickness: Material Colour:15 ft GREYOriginal Depth: Material:120 ft GRANITE, , MEDIUM GRAVEL281 of 1195.7 ConImage: Concession Name: Concession Name:010 Concession Name: CONWell Id: Concession: County: Easting Nad83: Zone:7109115 323710Lot: Concession Name: CON010 Concession Name: CON010 Concession Name: CONPrimary Water Use: Sec, Water Use: Specific Capacity: Construction Method: Depth to Bedrock: Water Type:18 LPMLot: Cable Tool Final Well Status: Final Well Status: Overburden/Bedrock: Overburden/Bedrock: Overburden/Bedrock: Water Type:010 Concession Construction Method: Cable Tool 197.07Concession Name: Construction Construction Sec, Water Type: Details Thickness:1.2 m0riginal Depth: 1.2 m1.2 m	+ Thickness Material C +	: Colour:	38 ft GREY			Original Depth: Material:	102 ft GRANITE, , SOFT
Thickness: Material Colour:15 ft GREYOriginal Depth: Material:120 ft GRANITE,, MEDIUM GRAVEL281 of 1195.7Image: Construction Concession Name: Concession:010 Concession Name: CON010 Concession Name: CONWell Id: Concession: County: Easting Nad83: Sone:7109115 323710Lot: Concession Name: ON010 Concession Name: CON010 Concession Name: CONWell Value: County: County: Construction Nathod: Sec. Water Use: Specific Capacity: Construction Method: Elevation (m):18 LPMLot: Contendence Contendence Construction Method: Clear/Cloudy: Final Well Status: Vater Type:010 Construction Date: Clear/Cloudy: Clear/C	Thickness Material C +	: Colour:	3 ft WHITE			Original Depth: Material:	105 ft MEDIUM GRAVEL
28 1 of 1 195.7 Image: concession of the conces in the concess	Thickness Material C	: Colour:	15 ft GREY			Original Depth: Material:	120 ft GRANITE, , MEDIUM GRAVEL
Well Id:7109115Lot:010Concession:10Concession Name:CONCounty:RENFREWMunicipality:INDIAN RESERVE GOLDEN LAKE 39Easting Nad83:323710Northing Nad83:5048199Zone:18Utm Reliability:margin of error : 10 - 30 mPrimary Water Use:CommericalConstruction Date:02-AUG-07Sec. Water Use:Well Depth:51.3 mPump Rate:18 LPMStatic Water Level:6.16 mFlow Rate:Specific Capacity:Clear/Cloudy:CLEARSpecific Capacity:Cable ToolFlowing (y/n):Elevation (m):197.07Elevation Reliability:Water SupplyDepth to Bedrock:Overburden/Bedrock:OPEN HOLE,STEEL Details Thickness:1.2 mOriginal Depth:1.2 m	28	1 of 1		195.7	ON		<u>wwis</u>
Thickness: 1.2 m Original Depth: 1.2 m	Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type.	: ter Use: Use: pacity: n Method: n): drock: :	7109115 10 RENFREW 323710 18 Commerica 18 LPM Cable Too 197.07	/ al		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	010 CON INDIAN RESERVE GOLDEN LAKE 39 5048199 margin of error : 10 - 30 m 02-AUG-07 51.3 m 6.16 m CLEAR Water Supply OPEN HOLE,STEEL
	Thickness	:	1.2 m		_	Original Depth:	1.2 m

Golden Lake Phase I ESA Proposal Inintig Inamo Golden Lake ON

20 131203 uer #:

Map Key Number Record		r of Elevation s m		Site	DB		
Material C	olour:	BROWN			Material:	SAND, GRAVEL, LOOSE	
+ Thickness Material C	: olour:	2.4 m			Original Depth: Material:	3.6 m ROCK, FRACTURED	
+ Thickness Material C +	: Solour:	37.6 m WHITE			Original Depth: Material:	41.2 m LIMESTONE, HARD, POROUS	
Thickness Material C	: Colour:	3.7 m BLACK			Original Depth: Material:	44.9 m GRANITE, , HARD	
Thickness Material C	: Colour:	6.4 m WHITE			Original Depth: Material:	51.3 m LIMESTONE, HARD, POROUS	
29	1 of 1		173.8	ON		<u>wwis</u>	
				•			
Well Id: Concession: County: Easting Nad Zono:	: 183:	5502559 10 RENFREW 325089.7			Lot: Concession Name: Municipality: Northing Nad83: Utm Poliobility:	006 CON INDIAN RESERVE GOLDEN LAKE 39 5049183 marrin of orror : 20 m - 100 m	
Primary Wat Sec. Water Pump Rate:	ter Use: Use:	Domestic 20 GPM			Construction Date: Well Depth: Static Water Level:	25-JUN-70 7 ft 20 ft	
Flow Rate: Specific Cap Construction Flevation (m	oacity: n Method: n):	Cable Tool			Clear/Cloudy: Final Well Status: Flowing (y/n): Flevation Reliability:	CLEAR Water Supply N	
Depth to Be Water Type:	drock:	7 FRESH			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL	
Details Thickness Material C	- : : : : olour:	7 ft BROWN			Original Depth: Material:	7 ft MEDIUM SAND	
Thickness Material C	: Colour:	168 ft GREY			Original Depth: Material:	175 ft GRANITE	
30	1 of 1		182.3	ON		<u>wwis</u>	
Well Id:		5515570			Lot:		
County: Easting Nad	183:	RENFREW 323777			Municipality: Northing Nad83:	INDIAN RESERVE GOLDEN LAKE 39 5048586	
Zone: Primary Wat Sec. Water I	ter Use: Use:	18 Domestic			Utm Reliability: Construction Date: Well Depth:	margin of error : 100 m - 300 m 04-JUN-04 4 3 m	
Pump Rate: Flow Rate:		45 LPM			Static Water Level: Clear/Cloudy:	3.7 m CLEAR	
Construction	n Method: n):	Air Precuss 180.28	ion		Flowing (y/n): Elevation Reliability:	water Suppry	
Depth to Bee Water Type:	drock:	14 Not stated			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL	
Details Thickness	-	4.3 m			Original Depth:	4.3 m	
Material C	olour:	BROWN			Material:	SAND, STONES, PACKED	

Map Key	Numbel Record	r of s	Elevation m	Site		DB
+ Thickness. Material C	: olour:	7 m RED			Original Depth: Material:	11.3 m GRANITE, SOFT
+ Thickness. Material C	: olour:	7 m RED			Original Depth: Material:	18.3 m GRANITE
31	1 of 1		175.5	ΟΝ		<u>wwis</u>
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water I Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bee Water Type: Details Thickness. Material C + Thickness. Material C + Thickness. Material C +	83: Yer Use: Use: Dacity: Method: Method: olour: colour: colour: colour: colour: colour:	5503237 10 RENFREW 325033.7 18 Domestic 8 GPM Cable Tool 175.31 17 FRESH 17 ft BROWN 61 ft GREY 112 ft BROWN 10 ft GREY			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material: Original Depth: Material:	012 CON INDIAN RESERVE GOLDEN LAKE 39 5049215 margin of error : 30 m - 100 m 15-SEP-73 78 ft 15 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 17 ft OVERBURDEN, BOULDERS, SAND 78 ft LIMESTONE 190 ft SANDSTONE 200 ft GRANITE
32	1 of 1		175.0	01		<u>wwis</u>
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water 0 Pump Rate: Flow Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bee Water Type:	83: Fer Use: Use: Dacity: Method: D): drock:	5515396 10 RENFREW 325226.2 18 Not Used Not Known 175.45		UN	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	011 CON INDIAN RESERVE GOLDEN LAKE 39 5049158 margin of error : 100 m - 300 m 18-SEP-03 Abandoned-Other No formation data
33	1 of 1		186.0	ON		<u>wwis</u>

Map Key	Number Records	r of S	Elevation m	Site		DB
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type:	33: er Use: lse: lse: acity: Method: ' rock:	5505390 10 RENFREW 323829.6 18 Domestic 12 GPM Rotary (Air) 187.89 15 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	006 CON INDIAN RESERVE GOLDEN LAKE 39 5048723 margin of error : 100 m - 300 m 17-OCT-78 168 ft 38 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Thickness: Material Co	olour:	15 ft BROWN			Original Depth: Material:	15 ft SAND, BOULDERS, LOOSE
Thickness: Material Co	olour:	153 ft			Original Depth: Material:	168 ft CONGLOMERATE, GRANITE, HARD
34	1 of 1		182.7	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type: Details	33: lse: lse: Method: l: lrock:	5503581 10 RENFREW 324027.6 18 Domestic 8 GPM Air Precuss 182.91 4 FRESH	ion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	007 CON INDIAN RESERVE GOLDEN LAKE 39 5048964 margin of error : 30 m - 100 m 15-AUG-74 4 ft 13 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Thickness: Material Co + Thickness: Material Co + Thickness: Material Co + Thickness:	olour: olour: olour:	4 ft BROWN 157 ft RED 36 ft WHITE 28 ft			Original Depth: Material: Original Depth: Material: Original Depth: Material: Original Depth:	4 ft FILL, STONES, SAND 161 ft GRANITE 197 ft SANDSTONE 225 ft
35	1 of 1		172.3	01	watenai.	SANDSTONE <u>WWIS</u>
Well Id: Concession: County:		5515400 10 RENFREW			Lot: Concession Name: Municipality:	010 CON INDIAN RESERVE GOLDEN LAKE 39

Map Key Number o Records		r of s	Elevation m	Site		DB
Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate:	33: er Use: Ise:	324838.7 18 Not Used			Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy:	5049262 margin of error : 100 m - 300 m 19-SEP-03
Specific Capa Construction Elevation (m) Depth to Bed Water Type:	acity: Method:): Irock:	Not Known 173.16			Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	Abandoned-Other No formation data
36	1 of 1		186.0	ON		<u>wwis</u>
Well Id:		5516159			Lot:	005
Concession. County: Easting Nad&	33:	RENFREW 323790			Municipality: Northing Nad83:	INDIAN RESERVE GOLDEN LAKE 39 5048678
Primary Wate Sec. Water U Pump Pata:	er Use: Ise:	Domestic			Construction Date: Well Depth:	22-AUG-05 95.7 m
Flow Rate: Specific Capa Construction	acity: Method:	Air Precuss	ion		Clear/Cloudy: Final Well Status: Flowing (y/n):	CLEAR Water Supply
Depth to Bed Water Type:	r. Irock:	3			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL
Details		1 m			Original Dopth:	1 m
Material Co	olour:	BROWN			Material:	TOPSOIL
Thickness: Material Co	olour:	84.4 m WHITE			Original Depth: Material:	85.4 m GRANITE
Thickness: Material Co	olour:	10.3 m RED			Original Depth: Material:	95.7 m GRANITE
Thickness: Material Cc	olour:	26.3 m RED			Original Depth: Material:	122 m GRANITE
37	1 of 1		178.0	ON		<u>wwis</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate:	33: er Use: Ise:	5515564 10 RENFREW 324222 18 Not Used			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level:	006 CON INDIAN RESERVE GOLDEN LAKE 39 5049116 margin of error : 100 m - 300 m 08-JUN-04
Flow Rate: Specific Capa Construction Elevation (m)	acity: Method:): Irock:	Not Known 178.36			Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock:	Abandoned-Other
	100K.				Overburgen/Dedrock.	

Мар Кеу	Number Record	r of s	Elevation m	Site			DB
Water Type:					Casing Material:		
39	1 of 1		177.7	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type:	33: Jse: Jse: Acity: Method:): Irock:	5515568 10 RENFREW 324210 18 Domestic 45 LPM Air Precuss 178.35 5 Not stated	ion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	006 CON INDIAN RESERVE GOU 5049112 margin of error : 100 m 07-JUN-04 79.3 m 6.6 m CLEAR Water Supply Bedrock OPEN HOLE,STEEL	LDEN LAKE 39 - 300 m
Details Thickness: Material Co + Thickness: Material Co	blour: blour:	1.5 m BROWN 6.1 m RED			Original Depth: Material: Original Depth: Material:	1.5 m SAND 7.6 m LIMESTONE	
+ Thickness: Material Cc + Thickness:	blour:	25.9 m WHITE 36.6 m			Original Depth: Material: Original Depth:	33.5 m LIMESTONE, SOFT 70.1 m	
Material Cc + Thickness: Material Cc	blour: blour:	GREY 9.2 m RED			Material: Original Depth: Material:	LIMESTONE 79.3 m GRANITE	
40	1 of 1		188.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type: Details Thickness: Material Co + Thickness:	33: er Use: Jse: acity: Method:): Irock:	5502562 10 RENFREW 323679.6 18 Domestic 5 GPM Cable Tool 189.17 3 FRESH 3 ft BROWN 57 ft	,		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	010 CON INDIAN RESERVE GOU 5048423 margin of error : 30 m - 03-JUL-70 94 ft 10 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 3 ft TOPSOIL 60 ft	LDEN LAKE 39
40	orioinfo					Order #. 201	24202044
Material Colou + Thickness: Material Colou + Thickness: Material Colou 41 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use Pump Rate: Flow Rate: Specific Capacin Construction Me Elevation (m): Depth to Bedroo Water Type:	ur: GRI ur: GRI ur: REI ur: GRI ur: GRI tur: GRI 5500 10 REN 324 18 Use: Don 2: ity: ethod: Cab 174 ck: 11 FPE	EY t EY 172.9 3073 NFREW 792.7 nestic	ON	Material: Original Depth: Material: Original Depth: Material: Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	GRANITE 94 ft GRANITE 143 ft GRANITE		
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 + Thickness: Material Colou + Thickness: Material Colou 41 41	34 f ur: REI 49 f ur: GRI 550 10 REN 324 18 Use: Don 2: ity: ethod: Cab 174 ck: 11 FPE	t EY 172.9 3073 NFREW 792.7 hestic	ΟΝ	Original Depth: Material: Original Depth: Material: Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	94 ft GRANITE 143 ft GRANITE 011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Thickness: Material Colou + Thickness: Material Colou 41 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use Pump Rate: Flow Rate: Specific Capacin Construction Me Elevation (m): Depth to Bedroo Water Type:	34 f ur: REI 49 f ur: GRI 550 10 REN 324 18 Use: Don 2: ity: ethod: Cab 174 ck: 11 FPE	t EY 172.9 3073 NFREW 792.7 hestic	ON	Original Depth: Material: Original Depth: Material: Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	94 ft GRANITE 143 ft GRANITE 011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Material Colou + Thickness: Material Colou 41 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use Pump Rate: Flow Rate: Specific Capacia Construction Me Elevation (m): Depth to Bedroo Water Type:	ur: REL 49 f ur: GRI 550 10 8 550 10 8 10 8 10 8 10 8 10 8 1	772.9 172.9 3073 NFREW 792.7 hestic	ON	Material: Original Depth: Material: Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	GRANITE 143 ft GRANITE WW/S 011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
+ Thickness: Material Colou 41 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use Pump Rate: Spec. Water Use Pump Rate: Flow Rate: Specific Capacia Construction Me Elevation (m): Depth to Bedroo Water Type:	49 f GRI 550 10 8 0f 1 550 10 8 REN 324 18 Use: Don 2: 5 5 5 5 6 7 7 4 5 5 0 10 8 10 8 10 8 10 8 10 8 10 8 10	t EY 172.9 3073 NFREW 792.7 nestic	ON	Original Depth: Material: Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	143 ft GRANITE UWWIS 011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Thickness: Material Colou 41 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capacia Construction Me Elevation (m): Depth to Bedroc Water Type:	49 f ur: GRI 5500 10 REN 324 18 Use: Don 2: ity: ethod: Cab 174 ck: 11 FPE	172.9 172.9 3073 NFREW 792.7 hestic	ON	Original Depth: Material: Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	143 ft GRANITE 011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Material Colou 41 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capacia Construction Me Elevation (m): Depth to Bedroc Water Type:	ur: GRI 550 10 REN 324 18 Use: Don e: ity: ethod: Cab 174 ck: 11 FPE	172.9 3073 NFREW 792.7 hestic	ON	Material: Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	GRANITE WW/S 011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
41 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capacia Construction Me Elevation (m): Depth to Bedroo Water Type:	550 10 REN 324 18 Use: Don 2: ity: ethod: Cab 174 ck: 11 FPE	172.9 3073 NFREW 792.7 nestic	ΟΝ	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	WW/S 011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Well Id: Concession: County: Easting Nad83: Zone: Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capacia Construction Me Elevation (m): Depth to Bedroc Water Type:	550 10 REN 324 18 Use: Don e: ty: ethod: Cab 174 ck: 11	3073 NFREW 792.7 nestic	ΟΝ	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Well Id: Concession: County: Easting Nad83: Zone: Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capaci Construction Me Elevation (m): Depth to Bedroc Water Type:	550 10 REN 324 18 Use: Don s: ity: ethod: Cab 174 ck: 11 FPE	3073 IFREW 792.7 nestic		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	011 CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Concession: County: Easting Nad83: Zone: Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capaci Construction Me Elevation (m): Depth to Bedroc Water Type:	10 REN 324 18 Use: Don e: ity: ethod: Cab 174 ck: 11 FPE	NFREW 792.7 nestic		Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	CON INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
County: Easting Nad83: Zone: Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capaci Construction Me Elevation (m): Depth to Bedroc Water Type:	REN 324 18 Use: Don e: ity: ethod: Cab 174 ck: 11 FPE	NFREW 792.7 nestic		Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth:	INDIAN RESERVE GOLDEN LAKE 3 5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Easting Nad83: Zone: Primary Water Use Pump Rate: Flow Rate: Specific Capaci Construction Me Elevation (m): Depth to Bedroc Water Type:	324 18 Use: Don e: ity: ethod: Cab 174 ck: 11	792.7 nestic		Northing Nad83: Utm Reliability: Construction Date: Well Depth:	5049275 margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Zone: Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capacia Specific Capacia Construction Me Elevation (m): Depth to Bedroc Water Type:	18 Use: Don e: ity: ethod: Cab 174 ck: 11	nestic		Utm Reliability: Construction Date: Well Depth:	margin of error : 30 m - 100 m 20-SEP-72 75 ft		
Primary Water L Sec. Water Use Pump Rate: Flow Rate: Specific Capacia Construction Me Elevation (m): Depth to Bedroc Water Type:	Use: Don e: ethod: Cab 174 ck: 11	le Tool		Construction Date: Well Depth:	20-SEP-72 75 ft		
Sec. Water Use Pump Rate: Flow Rate: Specific Capacin Construction Me Elevation (m): Depth to Bedroc Water Type:	ty: ethod: Cab 174 ck: 11			Well Depth:	75 ft		
Pump Rate: Flow Rate: Specific Capacio Construction Me Elevation (m): Depth to Bedroc Water Tvpe:	ity: ethod: Cab 174 ck: 11	le Tool			-		
Flow Rate: Specific Capaci Construction Me Elevation (m): Depth to Bedroc Water Type:	ity: ethod: Cab 174 ck: 11	le Tool		Static Water Level:	16 ft		
Specific Capacia Construction Me Elevation (m): Depth to Bedroo Water Type:	ty: ethod: Cab 174 ck: 11			Clear/Cloudy:	CLEAR		
Construction Me Elevation (m): Depth to Bedroc Water Type:	ethod: Cab 174 ck: 11			Final Well Status:	Water Supply		
Elevation (m): Depth to Bedroc Water Type:	174 ck: 11 FRE			Flowing (y/n):	Ν		
Deptn to Bearoc Water Type:	CK: 11 FRF	.17		Elevation Reliability:	De des els		
71		SH		Casing Material:	OPEN HOLE,STEEL		
Details							
Thickness:	11 f	t		Original Depth:	11 ft		
Material Colou +	ur: BRC	OWN		Material:	SAND, BOULDERS, TOPSOIL		
Thickness:	47 f	t		Original Depth:	58 ft		
Material Colou	ur: BLA	CK		Material:	GRANITE		
+ Thickness:	17 f	t		Original Depth:	75 ft		
Material Colou	ur: WH	ITE		Material:	LIMESTONE, DOLOMITE		
+ Thickness:	61 f	t		Original Depth:	136 ft		
Material Colou	ur: BLA	CK		Material:	GRANITE		
4 2 1	of 4	175.0	Public He	alth Agency of Canada	GEN		
			1643 Mish Golden La	nomis Inamo ake ON K0J 1X0			
SIC Code:		621110					
SIC Description	n:	Offices of Phys	sicians				
Generator #: Approval Yrs:		ON8728331 2010					
Details							
Waste Code:		312					
Waste Descrip	ption:	PATHOLOGIC	AL WASTES				
12 2	of 4	175.0	Health Ca 1643 Mish	nada-Algonquins of Golden	Lake Health Cen <u>GEN</u>		
			Golden La	ake ON K0J 1X0			
SIC Code:		623999					
SIC Description	n:	All Other Resid	dential Care Fac	ilities			
Generator #:		ON8659461					

Мар Кеу	Number Record	r of Elevation s m	Site			DB
Approval Yr	s:	2010				
Details Waste Co Waste De	- de: scription:	312 PATHOLOGICAL	WASTES			
42	3 of 4	175.0	Health Canad 1643 Mishom Golden Lake	a-Algonquins of Golden is Inamo ON K0J 1X0	Lake Health Cen	<u>GEN</u>
SIC Code: SIC Descrip Generator # Approval Yr	tion: :: s:	623999 All Other Resider ON8659461 2011	ntial Care Facilitie	S		
Details Waste Co Waste De	- de: scription:	312 PATHOLOGICAL	WASTES			
42	4 of 4	175.0	Health Canad 1643 Mishom Golden Lake	a-Algonquins of Golden is Inamo ON K0J 1X0	Lake Health Cen	<u>GEN</u>
SIC Code: SIC Descrip Generator # Approval Yr	tion: :: s:	ON8659461 As of July 2013				
Details Waste Co Waste De	- de: scription:	312 Pathological was	tes			
43	1 of 1	175.0	ON			<u>wwis</u>
Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type.	: ter Use: Use: pacity: n Method: n): drock: ;	5501802 10 RENFREW 325269.7 18 Public 10 GPM Cable Tool 177.49 5 FRESH		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	011 CON INDIAN RESERVE GC 5049183 margin of error : 100 m 09-MAR-65 75 ft 20 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL	DLDEN LAKE 39 n - 300 m
Details Thickness Material C +	- :: Colour:	5 ft		Original Depth: Material:	5 ft MEDIUM SAND	
Thickness Material C + Thickness	: Colour:	40 ft GREY 30 ft		Original Depth: Material: Original Depth:	45 ft GRANITE 75 ft	
Material C	Colour:	00 K		Material:	LIMESTONE	

Мар Кеу	Number Records	r of S	Elevation m	Site		DB
Thickness: Material Co +	lour:	46 ft GREY			Original Depth: Material:	121 ft GRANITE
Thickness: Material Co	lour:	1 ft			Original Depth: Material:	122 ft ROCK
44	1 of 1		178.3	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad8 Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type: Details Thickness: Material Co + Thickness: Material Co	83: er Use: lse: lse: macity: Method: : Method: : frock: lour:	5505366 RENFREW 323728.6 18 20 GPM Rotary (Air) 177.71 46 FRESH 46 ft BROWN 21 ft RED 261 ft			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material:	CON INDIAN RESERVE GOLDEN LAKE 39 5048622 margin of error : 100 m - 300 m 18-OCT-78 67 ft 6 ft CLEAR Test Hole N Bedrock OPEN HOLE,STEEL 46 ft SAND, BOULDERS, GRAVEL 67 ft GRANITE, QUARTZ, HARD 328 ft CONGLOMERATE, GRANITE, QUARTZ
45	1 of 1		182.0	ON		<u>wwis</u>
Well Id: Concession: County: Easting Nad8 Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type:	33: er Use: lse: acity: Method: : rock:	5504022 11 RENFREW 324029.6 18 Domestic 8 GPM Cable Tool 182.87 4 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	007 CON INDIAN RESERVE GOLDEN LAKE 39 5049023 margin of error : 100 m - 300 m 10-SEP-75 75 ft 22 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
I hickness: Material Co + Thickness: Material Co +	lour: lour:	4 tt BROWN 9 ft GREY			Original Depth: Material: Original Depth: Material:	4 π SAND, TOPSOIL 13 ft SHALE

Мар Кеу	Number Records	r of s	Elevation m	Site			DB
Thickness: Material Co	olour:	62 ft RED			Original Depth: Material:	75 ft GRANITE, HARD	
46	1 of 1		188.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water L Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Beo Water Type: Details Thickness: Material Co + Thickness: Material Co	33: er Use: Jse: acity: Method:): Irock: blour:	5504305 RENFREW 323628.6 18 Domestic 5 GPM Rotary (Air) 187.34 119 SALTY 5 ft RED 114 ft GREY			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	010 CON INDIAN RESERVE GOLE 5048422 margin of error : 100 m - 3 26-JUN-76 5 ft 9 ft CLEAR Water Supply N Mixed in a Layer OPEN HOLE,STEEL 5 ft OVERBURDEN, STONES 119 ft STONES, GRANITE	DEN LAKE 39 300 m S, BOULDERS
+ Thickness: Material Co	olour:	7 ft BROWN			Original Depth: Material:	126 ft STONES, SANDSTONE	
47	1 of 1		176.5	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nade Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Beo Water Type:	33: er Use: Jse: acity: Method:): Irock:	5502221 10 RENFREW 324209.7 18 Domestic 30 GPM Cable Tool 179.23 9 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	007 CON INDIAN RESERVE GOLD 5049173 margin of error : 100 m - 3 05-MAR-69 9 ft 23 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL)EN LAKE 39 300 m

Original Depth: Material:

Original Depth:

Original Depth:

Material:

Material:

HARDPAN

GRANITE

LIMESTONE

9 ft

18 ft

118 ft

44 erisinfo.com EcoLog ERIS Ltd.		Or
Golden Lake Phase I ESA Proposal	Inintig Inamo Golden Lake ON	

9 ft

9 ft

GREY

100 ft

--- Details ---

+

+

Thickness:

Thickness:

Thickness:

Material Colour:

Material Colour:

Material Colour:

Мар Кеу	Number Records	of S	Elevation m	Site		DB
48	1 of 1		181.3	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Beo Water Type:	33: er Use: lse: lse: acity: Method: ': rock:	5502354 10 RENFREW 324029.6 18 Domestic 10 GPM Cable Tool 182.27 9 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	006 CON INDIAN RESERVE GOLDEN LAKE 39 5049053 margin of error : 30 m - 100 m 22-SEP-69 9 ft 10 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Details Thickness: Material Co +	olour:	9 ft			Original Depth: Material:	9 ft TOPSOIL, MEDIUM SAND
Thickness: Material Co	olour:	92 ft			Original Depth: Material:	101 ft ROCK
49	1 of 1		179.0	ON		<u>wwis</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water L Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Beo Water Type: Details Thickness: Material Co + Thickness: Material Co	33: er Use: lse: acity: Method: : lrock: plour:	5502220 10 RENFREW 324429.7 18 Domestic 4 GPM Cable Tool 179.09 36 FRESH 25 ft 11 ft			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	009 CON INDIAN RESERVE GOLDEN LAKE 39 5049273 margin of error : 100 m - 300 m 28-FEB-69 36 ft 12 ft CLOUDY Water Supply N Bedrock OPEN HOLE,STEEL 25 ft HARDPAN, BOULDERS 36 ft QUICKSAND
+ Thickness: Material Co	olour:	90 ft GREY			Original Depth: Material:	126 ft GRANITE
50	1 of 1		174.5	ON		<u>wwis</u>
Well Id: Concession: County: Easting Nad&	33:	5502379 09 RENFREW 325429.7			Lot: Concession Name: Municipality: Northing Nad83:	006 CON INDIAN RESERVE GOLDEN LAKE 39 5049153

Map Key Number of Records		Elevation m	Site			DB	
Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type:	er Use: Ise: acity: Method:): Irock:	18 Domestic 15 GPM Cable Tool 174.13 12 FRESH			Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	margin of error : 30 m - 05-DEC-69 123 ft 6 ft CLEAR Water Supply N Bedrock OPEN HOLE	100 m
Details Thickness: Material Cc +	olour:	12 ft			Original Depth: Material:	12 ft MEDIUM SAND	
Thickness: Material Cc	olour:	111 ft			Original Depth: Material:	123 ft ROCK	
51	1 of 1		176.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nade Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type: Details Thickness: Material Co + Thickness: Material Co	33: er Use: Jse: acity: Method:): Irock: blour:	5504023 11 RENFREW 324179.7 18 Domestic 12 GPM Cable Tool 178.92 2 FRESH 2 ft BROWN 78 ft RED			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material:	007 CON INDIAN RESERVE GO 5049173 margin of error : 100 m 24-SEP-75 80 ft 7 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 2 ft SAND, TOPSOIL 80 ft GRANITE	LDEN LAKE 39 - 300 m
52	1 of 1		200.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type:	33: er Use: Jse: acity: Method:): Irock:	7163222 RENFREW 323572 18 Public Commerica 15 GPM Air Precuss Untested	l		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	INDIAN RESERVE GO 5048067 margin of error : 10 - 30 13-APR-11 280 ft 67.5 ft CLEAR Water Supply OPEN HOLE,STEEL	LDEN LAKE 39) m

Map Key	Numbe Record	r of 's	Elevation m	Site		DB
Details						
Thickness: Material Co	olour:	2 ft BROWN			Original Depth: Material:	2 ft TOPSOIL
+ Thickness: Material Co	olour:	159 ft WHITE			Original Depth: Material:	161 ft DOLOMITE, , SOFT
+ Thickness: Material Co	olour.	77 ft GREY			Original Depth: Material	238 ft GRANITE
+	biour.	40.4				
Material Co	olour:	42 ft GREY			Original Depth: Material:	280 π GRANITE
54	1 of 2		178.1	ON		<u>WWIS</u>
Well Id:		5504761			Lot:	008
Concession:		10			Concession Name:	CON
County:		RENFREW			Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Nada	83:	324079.7			Northing Nad83:	5049123 margin of orror : 100 m - 200 m
Primary Wate	er Use [.]	Domestic			Construction Date	21-SEP-77
Sec. Water L	Jse:	Domootio			Well Depth:	9 ft
Pump Rate:		150 GPM			Static Water Level:	30 ft
Flow Rate:					Clear/Cloudy:	CLEAR
Specific Cap	acity:				Final Well Status:	Water Supply
Construction	Method:	Rotary (Air)			Flowing (y/n):	Ν
Depth to Bec). drock [.]	226			Overburden/Bedrock	Mixed in a Laver
Water Type:	noon.	FRESH			Casing Material:	OPEN HOLE,STEEL
Details						
Thickness: Material Co	olour:	9 ft BROWN			Original Depth: Material:	9 ft OVERBURDEN, SANDY, LOOSE
+ Thickness:		131 ft			Original Depth:	140 ft
Material Co	olour:	BLACK			Material:	STONES, GRANITE
+ Thickness:		57 ft			Original Depth:	197 ft
Material Co	olour:	RED			Material:	STONES, GRANITE
+ Thickness:		12 ft			Original Depth:	209 ft
Material Co	olour:	BLACK			Material:	STONES, GRANITE
Thickness:		17 ft			Original Depth:	226 ft
Material Co	olour:	BROWN			Material:	STONES, SANDSTONE
+ Thickpoor		22.4			Original Donth:	250 #
Material Co	olour:	RED			Material:	STONES, GRANITE
54	2 of 2		178.1			WWIS
				ON		
Well Id:		5502563			Lot:	006
Concession:		10			Concession Name:	CON
County:	00.	RENFREW			Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Nada	53:	324079.7 18			Northing Nad83:	5049123 margin of error : 30 m - 100 m
Zone. Primarv Wate	er Use:	To Domestic			Construction Date	100 margin of enor . 50 m - 100 m 22-JUL-70
	onicial-			t d	conclusion Date.	
- 47	Golden	Lake Phas	LOG ERIS L Se I ESA P	.u. roposal Inint	ig Inamo Golden Lake	Order #: 20131203044

Map Key	Number Records	r of S	Elevation m	Site			DB
Sec. Water L Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bec Water Type:	Jse: acity: Method:): Irock:	10 GPM Cable Tool 179.19 14 FRESH			Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	238 ft 28 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL	
Details Thickness: Material Co + Thickness: Material Co	olour: olour:	14 ft BROWN 224 ft GREY			Original Depth: Material: Original Depth: Material:	14 ft TOPSOIL 238 ft GRANITE	
55	1 of 1		178.0	ON			<u>wwis</u>
Well Id: Concession: County: Easting Nada Zone: Primary Wata Sec. Water L Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bec Water Type: Details Thickness: Material Co + Thickness: Material Co	83: er Use: Jse: acity: Method:): frock: blour:	5502687 RENFREW 324409.7 18 Public 20 GPM Cable Tool 177.95 30 FRESH 30 ft BROWN 115 ft GREY			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	008 IR39 5049303 unknown UTM 08-MAY-71 30 ft 7 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 30 ft OVERBURDEN 145 ft GRANITE	
56	1 of 1		172.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nade Zone: Primary Wate Sec. Water L Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bec Water Type:	83: er Use: Jse: acity: Method:): Irock:	7194148 RENFREW 325652 18			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	INDIAN RESERVE GOL 5049014 margin of error : 30 m - 23-OCT-12	.DEN LAKE 39 100 m

Мар Кеу	Number Records	r of S	Elevation m	Site		DB
57	1 of 1		184.9	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad8: Zone: Primary Water Sec. Water Us Pump Rate: Flow Rate: Specific Capa Construction I Elevation (m): Depth to Bedr Water Type:	3: r Use: se: ncity: Method: rock:	5504762 10 RENFREW 323879.6 18 Domestic 100 GPM Rotary (Air) 184.86 8 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	009 CON INDIAN RESERVE GOLDEN LAKE 39 5048973 margin of error : 100 m - 300 m 21-SEP-77 8 ft 26 ft CLEAR Water Supply N Mixed in a Layer OPEN HOLE,STEEL
Details Thickness: Material Col	lour:	8 ft BROWN			Original Depth: Material:	8 ft OVERBURDEN, STONES, SANDY
Thickness: Material Col	lour:	218 ft BLACK			Original Depth: Material:	226 ft STONES, GRANITE
58	1 of 1		178.0	ΟΝ		<u>WWIS</u>
Well Id: Concession: County: Easting Nad8: Zone: Primary Water Sec. Water Us Pump Rate: Flow Rate: Specific Capa Construction I Elevation (m): Depth to Bedr Water Type: Details Thickness:	3: r Use: se: city: Method: rock:	5502995 10 RENFREW 324413.7 18 Municipal 24 GPM Cable Tool 177.76 18 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	008 CON INDIAN RESERVE GOLDEN LAKE 39 5049311 margin of error : 30 m - 100 m 18-NOV-72 18 ft 2 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 18 ft
Material Col + Thickness: Material Col + Thickness:	lour: lour:	BROWN 82 ft GREY 20 ft			Material: Original Depth: Material: Original Depth:	SAND, BOULDERS 100 ft SANDSTONE 120 ft
Material Col + Thickness: Material Col	lour: lour:	BROWN 24 ft BLACK			Original Depth: Material: Material:	SANDSTONE 144 ft GRANITE
59	1 of 1		181.6	ON		<u>WWIS</u>
Well Id:		7134682			Lot:	
49	<mark>erisinfo</mark> Golden	. <u>com</u> EcoL Lake Phas	og ERIS Lt	d. oposal Inir	ntig Inamo Golden Lake	Order #: 20131203044 ON

Мар Кеу	Numbel Record	r of s	Elevation m	Site		DB
Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type.	: ter Use: Use: Dacity: n Method: n): drock:	RENFREW 323736 18 Domestic 63.7 LPM Cable Tool 182.29 Untested	, ,		Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	INDIAN RESERVE GOLDEN LAKE 39 5048792 margin of error : 30 m - 100 m 17-NOV-09 34 m 4.4 m CLEAR Water Supply OPEN HOLE,STEEL
Details Thickness Material C + Thickness Material C	- : : : : : : :	3.6 m 17.6 m GREY			Original Depth: Material: Original Depth: Material:	3.6 m SAND, BOULDERS 21.2 m GRANITE, , HARD
+ Thickness Material C + Thickness Material C	: Colour: : Colour:	1.5 m RED 11.3 m GREY			Original Depth: Material: Original Depth: Material:	22.7 m GRANITE, , HARD 34 m GRANITE, , HARD
60	1 of 1		180.0	ON		<u>wwis</u>
Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type. Details Thickness Material C + Thickness Material C	: l83: ter Use: Use: n Method: n): drock: : colour: : colour:	5502355 10 RENFREW 324029.7 18 Domestic 5 GPM Cable Tool 181.07 4 FRESH 4 ft 121 ft	,		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material:	010 CON INDIAN RESERVE GOLDEN LAKE 39 5049113 margin of error : 30 m - 100 m 26-SEP-69 4 ft 30 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 4 ft TOPSOIL, MEDIUM SAND 125 ft ROCK
61	1 of 1		174.6	ON		<u>WWIS</u>
Well Id: Concession County: Easting Nac Zone:	: 183:	5514929 10 RENFREW 324507.3 18			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability:	009 CON INDIAN RESERVE GOLDEN LAKE 39 5049338 margin of error : 100 m - 300 m
50	originfo		og ERIS I td			Ordor #: 20121202044

Golden Lake Phase I ESA Proposal Inintig Inamo Golden Lake ON

Мар Кеу	Number Records	of	Elevation m	Site			DB
Primary Wate	r Use:	Domestic			Construction Date:	16-SEP-02	
Sec. Water U	se:				Well Depth:	60 ft	
Pump Rate:		6 GPM			Static Water Level:	21 ft	
Flow Rate:	.,				Clear/Cloudy:	CLEAR	
Specific Capa	acity:				Final Well Status:	Water Supply	
Construction I	Methoa:	Rotary (Cor	ivent.)		Flowing (y/n):	N	
Elevation (m):	roolu	175.79			Elevation Reliability:	Dodrook	
Water Type:	UCK.	Not stated			Casing Material:	OPEN HOLE, STEEL	
Details							
Thickness:		34 ft			Original Depth:	34 ft	
Material Co	lour:	BROWN			Material:	SAND, CLAY, PACKED	
+							
Thickness:		26 ft			Original Depth:	60 ft	
Material Co.	lour:	RED			Material:	GRANITE	
+							
Thickness:		70 ft			Original Depth:	130 ft	
Material Co.	lour:	GREY			Material:	LIMESTONE	
+							
Thickness:		115 ft			Original Depth:	245 ft	
Material Co	lour:	GREY			Material:	GRANITE	
+		00.4			Oniaria al Dans (h.)	004.4	
I NICKNESS:	1	36 II			Original Depth:		
Material Co	iour:	GREY			Material:	GRANITE	
			(00.0				
62	1 of 1		180.0				<u>wwis</u>
				ON			
Well Id:		5515398			Lot:	006	
Concession:		10			Concession Name:	CON	
County:		RENFREW			Municipality:	INDIAN RESERVE GOL	DEN LAKE 39
Easting Nad8	3:	324028			Northing Nad83:	5049118	
Zone:		18			Utm Reliability:	margin of error : 100 m -	300 m
Primary Wate	er Use:	Not Used			Construction Date:	19-SEP-03	
Sec. Water U	se:				Well Depth:		
Pump Rate:					Static Water Level:		
Flow Rate:	•.				Clear/Cloudy:		
Specific Capa	acity:				Final Well Status:	Abandoned-Other	
Construction I	Method:	Not Known			Flowing (y/n):		
Elevation (m):	: rook:	181.03			Elevation Reliability:	No formation data	
Water Type	OCK.				Overburgen/Bedrock.	No formation data	
Water Type.					ousing material.		
63	1 of 1		177.7				<u>WWIS</u>
				ON			
Well Id:		5500633			l ot:	000	
Concession		10			Loi. Concession Name	CON	
County:		RENEREW			Municipality	INDIAN RESERVE GOL	DEN LAKE 39
Fasting Nad8	3:	324429.7			Northing Nad83:	5049323	
Zone:	0.	18			Utm Reliability:	unknown UTM	
Primary Wate	r Use:	Public			Construction Date:	05-SEP-58	
Sec. Water U	se:				Well Depth:	90 ft	
Pump Rate:		3 GPM			Static Water Level:	30 ft	
Flow Rate:					Clear/Cloudy:	CLEAR	
Specific Capa	acity:				Final Well Status:	Water Supply	
Construction	Method:	Cable Tool			Flowing (y/n):	Ν	
Elevation (m)	:	177.67			Elevation Reliability:		
51	erisinfo.	com EcoL	og ERIS Ltd	1		Order #: 201	31203044

Golden Lake Phase I ESA Proposal Inintig Inamo Golden Lake ON

Мар Кеу	Number Records	r of s	Elevation m	Site		DB
Depth to Bec Water Type:	lrock:	32 FRESH			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL
Details Thickness: Material Co	olour:	32 ft BROWN			Original Depth: Material:	32 ft TOPSOIL
+ Thickness: Material Co	olour:	58 ft GREY			Original Depth: Material:	90 ft LIMESTONE
64	1 of 1		174.3	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nada Zone: Primary Wata Sec. Water L Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bec Water Type:	83: er Use: Jse: acity: Method:): Irock:	5514928 10 RENFREW 324511.3 18 Not Used Not Known 175.44			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	009 CON INDIAN RESERVE GOLDEN LAKE 39 5049346 margin of error : 100 m - 300 m 18-SEP-02 Abandoned-Quality No formation data
65	1 of 1		178.0	ON		<u>wwis</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water L Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bec Water Type:	83: er Use: Jse: acity: Method:): Irock:	5514926 09 RENFREW 324402.3 18 Not Used Not Known 177.46			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	008 CON INDIAN RESERVE GOLDEN LAKE 39 5049317 margin of error : 100 m - 300 m 09-OCT-02 Abandoned-Other No formation data
66	1 of 1		193.5			<u>wwis</u>
Well Id: Concession: County: Easting Nada Zone: Primary Wata Sec. Water L Pump Rate: Flow Rate:	83: er Use: Jse:	5505922 10 RENFREW 323529.6 18 Domestic 9 GPM		ON	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy:	011 CON INDIAN RESERVE GOLDEN LAKE 39 5048173 margin of error : 100 m - 300 m 15-OCT-79 9 ft CLEAR

Мар Кеу	Number Records	r of s	Elevation m	Site		DB
Specific Cap Construction Elevation (m	acity: Method:):	Rotary (Air) 194.51			Final Well Status: Flowing (y/n): Elevation Reliability:	Water Supply N
Depth to Bec	frock:	14			Overburden/Bedrock:	Bedrock
Water Type:		FRESH			Casing Material:	OPEN HOLE,STEEL
Details						
Thickness:		9 ft			Original Depth:	9 ft
Material Co	olour:	BROWN			Material:	SAND, STONES, LOOSE
+						· · ·
Thickness:		5 ft			Original Depth:	14 ft
Material Co	olour:	BROWN			Material:	HARDPAN, PACKED
+						
Thickness:		14 ft			Original Depth:	28 ft
Material Co	olour:	BLACK			Material:	GRANITE, SANDSTONE, HARD
+						
Thickness:		43 ft			Original Depth:	71 ft
Material Co	olour:	RED			Material:	GRANITE, HARD
+						
Thickness:		117 ft			Original Depth:	188 ft
Material Co	olour:	BLACK			Material:	GRANITE, HARD
67	1 of 1		200.0			<u>wwis</u>

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Well Id:	5505923
Concession:	10
County:	RENFREW
Easting Nad83:	323529.6
Zone:	18
Primary Water Use:	Domestic
Sec. Water Use:	
Pump Rate:	20 GPM
Flow Rate:	
Specific Capacity:	
Construction Method:	Rotary (Air)
Elevation (m):	200.21
Depth to Bedrock:	18
Water Type:	FRESH

68

<u>WWIS</u>

Well Id:	5504024		Lot:	007
68 1 of 1	178.2	ON		WWIS
Thickness: Material Colour:	60 ft BLACK		Original Depth: Material:	168 ft GRANITE, HARD
Thickness: Material Colour: +	18 ft WHITE		Original Depth: Material:	108 ft DOLOMITE, LIMESTONE, HARD
+ Thickness: Material Colour: +	72 ft BLACK		Original Depth: Material:	90 ft GRANITE, HARD
+ Thickness: Material Colour:	10 ft BROWN		Original Depth: Material:	18 ft HARDPAN, PACKED
Details Thickness: Material Colour:	8 ft BROWN		Original Depth: Material:	8 ft SAND, TOPSOIL, STONES
Elevation (m): Depth to Bedrock: Water Type:	200.21 18 FRESH		Elevation Reliability: Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL
Pump Rate: Flow Rate: Specific Capacity: Construction Mothod:	20 GPM		Static Water Level: Clear/Cloudy: Final Well Status:	CLEAR Water Supply
Easting Nad83: Zone: Primary Water Use: Sec. Water Use:	323529.6 18 Domestic		<i>Northing Nad83: Utm Reliability: Construction Date: Well Depth:</i>	5048023 margin of error : 100 m - 300 m 06-DEC-79 90 ft
Well Id: Concession: County:	5505923 10 RENFREW		Lot: Concession Name: Municipality:	011 CON INDIAN RESERVE GOLDEN LAKE 39

Golden Lake Phase I ESA Proposal Inintig Inamo Golden Lake ON

Order #: 20131203044

Map Key Numbe Record	r of 's	Elevation m	Site		DB
Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Flevation (m):	11 RENFREW 324079.7 18 Domestic 12 GPM Cable Tool 178.96			Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability:	CON INDIAN RESERVE GOLDEN LAKE 39 5049173 margin of error : 100 m - 300 m 09-OCT-75 80 ft 7 ft CLEAR Water Supply N
Depth to Bedrock: Water Type:	3 FRESH			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL
Details Thickness: Material Colour: +	3 ft BROWN			Original Depth: Material:	3 ft SAND, TOPSOIL
Thickness: Material Colour: +	50 ft RED			Original Depth: Material:	53 ft GRANITE
Thickness: Material Colour:	27 ft BLACK			Original Depth: Material:	80 ft GRANITE
69 1 of 1		175.9	ON		<u>WWIS</u>
69 1 of 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	5503235 10 RENFREW 324477.7 18 Domestic 5 GPM Cable Tool 176.15 65 FRESH	175.9	ON	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	WWIS 008 CON INDIAN RESERVE GOLDEN LAKE 39 5049351 margin of error : 30 m - 100 m 11-AUG-73 98 ft 13 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
69 1 of 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type: Details Thickness: Material Colour: +	5503235 10 RENFREW 324477.7 18 Domestic 5 GPM Cable Tool 176.15 65 FRESH 65 ft BROWN	175.9	ON	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	WWIS 008 CON INDIAN RESERVE GOLDEN LAKE 39 5049351 margin of error : 30 m - 100 m 11-AUG-73 98 ft 13 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 65 ft QUICKSAND, BOULDERS
69 1 of 1 Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type: Details Thickness: Material Colour: + Thickness: Material Colour: +	5503235 10 RENFREW 324477.7 18 Domestic 5 GPM Cable Tool 176.15 65 FRESH 65 ft BROWN 4 ft BLACK	175.9	ON	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material:	WWIS 008 CON INDIAN RESERVE GOLDEN LAKE 39 5049351 margin of error : 30 m - 100 m 11-AUG-73 98 ft 13 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 65 ft QUICKSAND, BOULDERS 69 ft ROCK

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177.5

ΟΝ

BROWN

GREEN

5514927

09

13 ft

Material Colour:

Material Colour:

1 of 1

Thickness:

+

70

Well Id:

Concession:

54

al Inintig Inamo Golden Lake ON

Concession Name:

Material:

Material:

Lot:

Original Depth:

Order #: 20131203044

<u>WWIS</u>

SANDSTONE

111 ft

080 CON

GRANITE

Мар Кеу	Number Records	r of S	Elevation m	Site		DB	
County: Easting Nad& Zone: Primary Wate Sec. Water L Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bed	83: er Use: Jse: acity: Method:): lrock:	RENFREW 324400.3 18 Domestic 12 GPM Rotary (Con 177.21 15	nvent.)		Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock:	INDIAN RESERVE GOLDEN L 5049329 margin of error : 100 m - 300 m 10-OCT-02 15 ft 24 ft CLEAR Water Supply N Bedrock	AKE 39
Water Type: Details		Not stated			Casing Material:	OPEN HOLE,STEEL	
Thickness: Material Co +	olour:	15 ft BROWN			Original Depth: Material:	15 ft SAND, STONES, HARDPAN	
Thickness: Material Co	olour:	127 ft WHITE			Original Depth: Material:	142 ft LIMESTONE	
71	1 of 1		197.7	ON		<u>wwis</u>	Ì
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water L Pump Rate: Flow Rate: Specific Cap Construction Elevation (m, Depth to Bed Water Type: Details Thickness: Material Co + Thickness: Material Co + Thickness:	83: er Use: Jse: Jse: acity: Method:): frock: blour: blour:	7156991 RENFREW 323517 18 Domestic 10 GPM Rotary (Con Untested 4 ft BROWN 151 ft GREY 35 ft GREY	nvent.)		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material: Original Depth: Material:	SOUTH ALGONA 5048111 margin of error : 10 - 30 m 22-OCT-10 4 ft 64 ft CLEAR Water Supply STEEL 4 ft SAND, GRAVEL 155 ft GRANITE, MARBLE 190 ft GRANITE	
72	1 of 1		180.0	ON		<u>wwis</u>	1
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water L Pump Rate: Flow Rate:	83: er Use: Jse:	5515397 10 RENFREW 324041.5 18 Not Used			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy:	006 CON INDIAN RESERVE GOLDEN L 5049155 margin of error : 100 m - 300 m 18-SEP-03	AKE 39

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Мар Кеу	Number Record	r of s	Elevation m	Site		DB
Specific Cap Construction Elevation (m Depth to Bed Water Type:	pacity: h Method: h): drock:	Not Known 180.26			Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	Abandoned-Other No formation data
74	1 of 1		177.0	ON		WWIS
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water O Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bed Water Type: Details Thickness. Material C + Thickness. Material C + Thickness. Material C + Thickness. Material C +	83: er Use: Jse: Jse: acity: Method:): drock: colour: colour: colour: colour:	5504763 11 RENFREW 324329.7 18 Domestic 8 GPM Rotary (Air) 177.92 12 FRESH 12 ft BROWN 114 ft BLACK 32 ft WHITE 76 ft BLACK 55 ft CDEX			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material: Original Depth: Material: Original Depth: Material: Original Depth: Material:	008 CON INDIAN RESERVE GOLDEN LAKE 39 5049323 margin of error : 100 m - 300 m 22-SEP-77 346 ft 12 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 12 ft SAND, GRAVEL, LOOSE 126 ft GRANITE, SANDSTONE, HARD 158 ft QUARTZITE, LIMESTONE, HARD 234 ft GRANITE, HARD
+ Thickness Material C	olour:	57 ft BLACK			Original Depth: Material:	346 ft GRANITE, HARD
75	1 of 1		200.0	ON		<u>wwis</u>
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water I Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bed	83: er Use: Use: Dacity: Method:): drock:	7166111 RENFREW 323506 18 Domestic 10 GPM Air Precuss	ion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock:	INDIAN RESERVE GOLDEN LAKE 39 5048009 margin of error : 10 - 30 m 27-JUN-11 6 ft 69.8 ft CLEAR Water Supply N

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Мар Кеу	Number Record	r of s	Elevation m	Site			DB
Water Type:		Untested			Casing Material:	OPEN HOLE, STEEL	
Details Thickness Material C	- : : olour:	6 ft BROWN			Original Depth: Material:	6 ft SAND, STONES, FILL	
+ Thickness Material C	: olour:	162 ft WHITE			Original Depth: Material:	168 ft GRANITE	
+ Thickness Material C	: olour:	27 ft GREY			Original Depth: Material:	195 ft GRANITE	
+ Thickness Material C	: olour:	45 ft GREY			Original Depth: Material:	240 ft GRANITE	
76	1 of 1		177.0	1669 Mishomis Golden Lake C	inamo DN K0J 1X0		<u>EHS</u>
Order No.: Report Date Report Type Search Rad Addit. Info C	: :: ius (km):)rdered:	20 4/ Si 0. Ad	0090422007 ′30/2009 tandard Report 25 erials Photos				
81	1 of 1		180.0	ON			<u>WWIS</u>
Weil Id: Concession: County: Easting Nao Zone: Primary Wai Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Ber Water Type: Details Thickness Material C + Thickness Material C + Thickness Material C + Thickness Material C + Thickness Material C +	is in the set of the s	 Prove Provide a constraint of the second s			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material: Original Depth: Material: Original Depth: Material: Original Depth: Material:	 3-9 NORTH ALGONA 5048870 margin of error : 10 - 30 18-JUN-08 47.3 m 6.9 m CLEAR Water Supply N STEEL 2.7 m CLAY, BOULDERS, PAR 13.7 m GRANITE, , HARD 16.7 m GRANITE, , HARD 37.6 m GRANITE, , HARD 37.6 m GRANITE, , HARD 44.8 m LIMESTONE, POROUS 	m CKED
+ Thickness	:	2.5 m			Original Depth:	47.3 m	
57	erisinfo Golden	<u>.com</u> Eco Lake Pha	Log ERIS Ltd se I ESA Prop	oosal Inintig I	namo Golden Lake	Order #: 201 ON	31203044

Map Key	Numbe Record	r of s	Elevation m	Site		DB
Material C	Colour:	RED			Material:	LIMESTONE, , HARD
83	1 of 1		180.0	ON		<u>WWIS</u>
Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type	: ter Use: Use: n Method: n): drock: :	5504027 11 RENFREW 324004.7 18 Domestic 12 GPM Cable Tool 180.48 11 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	007 CON INDIAN RESERVE GOLDEN LAKE 39 5049198 margin of error : 100 m - 300 m 13-NOV-75 97 ft 19 ft Water Supply N Bedrock OPEN HOLE,STEEL
Details Thickness Material C +	: Colour:	11 ft BROWN			Original Depth: Material:	11 ft SAND, BOULDERS, COARSE GRAVEL
Thickness Material C	: Colour:	86 ft WHITE			Original Depth: Material:	97 ft DOLOMITE
+ Thickness Material C	: Colour:	53 ft BLACK			Original Depth: Material:	150 ft GRANITE, HARD
+ Thickness Material C	: Colour:	155 ft WHITE			Original Depth: Material:	305 ft DOLOMITE
84	1 of 1		180.0	ON		<u>WWIS</u>
Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type.	: ter Use: Use: pacity: n Method: n): drock: :	5504026 11 RENFREW 324029.7 18 Domestic 3 GPM Rotary (Air) 179.84 12 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	007 CON INDIAN RESERVE GOLDEN LAKE 39 5049223 margin of error : 100 m - 300 m 10-NOV-75 97 ft 21 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Details Thickness Material C	- :: Colour:	12 ft BROWN			Original Depth: Material:	12 ft SAND, STONES, GRAVEL
+ Thickness Material C	: Colour:	85 ft WHITE			Original Depth: Material:	97 ft DOLOMITE
+ Thickness		44 ft			Original Depth:	141 ft

Мар Кеу	Number Record	r of s	Elevation m	Site		DB
Material Co	olour:	BLACK			Material:	GRANITE
' Thickness: Material Co	olour:	164 ft WHITE			Original Depth: Material:	305 ft DOLOMITE
86	1 of 1		171.1	ON		WWIS
				ON		
Well Id: Concession: County: Easting Nada Zone: Primary Wate Sec. Water L Pump Rate:	83: er Use: Jse:	5515395 10 RENFREW 326068 18 Not Used			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level:	024 CON INDIAN RESERVE GOLDEN LAKE 5048542 margin of error : 100 m - 300 m 22-SEP-03
Flow Rate: Specific Cap Construction Elevation (m Depth to Bec Nater Type:	acity: Method:): drock:	Not Known 172.02			Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	Abandoned-Other No formation data
37	1 of 1		180.0			wwis
				ON		
Vell Id: Concession: County: Easting Nada Zone: Primary Wata Sec. Water U Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bec Water Type:	83: er Use: Jse: acity: Method:): drock:	5503568 10 RENFREW 324005.7 18 Domestic 5 GPM Air Precuss 180.03 28 FRESH	ion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	007 CON INDIAN RESERVE GOLDEN LAKE 5049222 margin of error : 30 m - 100 m 20-JUN-74 96 ft 17 ft CLEAR Water Supply N Mixed in a Layer OPEN HOLE,STEEL
Details		20.4			Original Danth	20 #
Material Co	olour:	RED			Material:	SAND, STONES, BOULDERS
+ Thickness: Material Co	olour:	68 ft RED			Original Depth: Material:	96 ft QUICKSAND, GRANITE
+ Thickness: Material Co	olour:	85 ft BLACK			Original Depth: Material:	181 ft GRANITE
т Thickness: Material Co	olour:	44 ft RED			Original Depth: Material:	225 ft GRANITE
38	1 of 1		175.4	ΟΝ		<u>wwis</u>
Well Id:		5502219			Lot:	005
59	erisinfo	.com Ecol		td.	tig Inamo Goldon Lako	Order #: 20131203044

Мар Кеу	Number Records	of G	Elevation m	Site		DB
Concession:		10	_		Concession Name:	CON
County:		RENFREW			Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Nad&	33:	324259.7			Northing Nad83:	5049373
Zone:		18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Wate	er Use:	Domestic			Construction Date:	21-FEB-69
Sec. Water U	lse:				Well Depth:	25 ft
Pump Rate:		5 GPM			Static Water Level:	25 ft
Flow Rate:					Clear/Cloudy:	CLEAR
Specific Capa	acity:				Final Well Status:	Water Supply
Construction	Method:	Cable Tool			Flowing (y/n):	N
Elevation (m)):	175.55			Elevation Reliability:	
Depth to Bed	lrock:	25			Overburden/Bedrock:	Bedrock
Water Type:		FRESH			Casing Material:	OPEN HOLE,STEEL
Details						
Thickness:		25 ft			Original Depth:	25 ft
Material Co	olour:				Material:	HARDPAN, BOULDERS
+						
Thickness:		91 ft			Original Depth:	116 ft
Material Co	olour:				Material:	LIMESTONE

90 1 of 1	200.6				<u>WWIS</u>
		ON			
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	5503570 10 RENFREW 323468.6 18 Domestic 15 GPM Air Precussion 200.7 3 FRESH		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	009 CON INDIAN RESERVE GOL 5047750 margin of error : 30 m - 19-JUN-74 65 ft 16 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL	DEN LAKE 39
Details Thickness: Material Colour:	3 ft RED		Original Depth: Material:	3 ft SAND, TOPSOIL	
+ Thickness: Material Colour: +	62 ft BLACK		Original Depth: Material:	65 ft GRANITE	
Thickness: Material Colour: +	76 ft RED		Original Depth: Material:	141 ft GRANITE	
Thickness: Material Colour: +	35 ft WHITE		Original Depth: Material:	176 ft DOLOMITE	
Thickness: Material Colour:	9 ft BLACK		Original Depth: Material:	185 ft GRANITE	
92 1 of 1	170.4	01			<u>WWIS</u>

92	1 of 1	170.4	ON			<u>wwis</u>
Well Id: Concession:	5502298 10			Lot: Concession Name:	009 CON	
60	erisinfo coml Eco	l og ERIS I td				Order #: 20131203044

Map Key Number Records	s S	Elevation m	Site		DB
County:	RENFREW	1		Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Nad83:	324129.7			Northing Nad83:	5049343
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	14-AUG-69
Sec. Water Use:				Well Depth:	125 ft
Pump Rate:	30 GPM			Static Water Level:	4 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Tool			Flowing (v/n) :	N
Elevation (m):	172.64			Elevation Reliability:	
Depth to Bedrock:	12			Overburden/Bedrock:	Bedrock
Water Type:	FRESH			Casing Material:	OPEN HOLE,STEEL
Details					
Thickness:	12 ft			Original Depth:	12 ft
Material Colour:				Material:	HARDPAN
+					
Thickness:	113 ft			Original Depth:	125 ft
Material Colour:				Material:	ROCK

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95	1 of 1		176.8			<u>WWIS</u>
				ON		
Well Id:		5502293			Lot:	006
Concessio	n:	10			Concession Name:	CON
County:		RENFREW			Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Na	ad83:	324029.7			Northing Nad83:	5049293
Zone:		18			Utm Reliability:	margin of error : 30 m - 100 m
Primary W	ater Use:	Domestic			Construction Date:	16-JUL-69
Sec. Wate	r Use:				Well Depth:	160 ft
Pump Rate	ə:	10 GPM			Static Water Level:	20 ft
Flow Rate:					Clear/Cloudy:	CLEAR
Specific Ca	apacity:				Final Well Status:	Water Supply
Constructio	on Method:	Cable Tool			Flowing (y/n):	N
Elevation ((m):	177.51			Elevation Reliability:	
Depth to B	edrock:	12			Overburden/Bedrock:	Bedrock
Water Typ	e:	FRESH			Casing Material:	OPEN HOLE,STEEL
Details						
Thicknes	ss:	12 ft			Original Depth:	12 ft
Material	Colour:				Material:	HARDPAN, BOULDERS
+						
Thicknes	ss:	148 ft			Original Depth:	160 ft
Material	Colour:				Material:	ROCK

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ON

Well Id:	5502222	Lot:
Concession:	10	Concession Name:
County:	RENFREW	Municipality:
Easting Nad83:	324179.7	Northing Nad83:
Zone:	18	Utm Reliability:
Primary Water Use:	Domestic	Construction Date:
Sec. Water Use:		Well Depth:
Pump Rate:	3 GPM	Static Water Level:
Flow Rate:		Clear/Cloudy:
Specific Capacity:		Final Well Status:
Construction Method:	Cable Tool	Flowing (y/n):
Elevation (m):	169.54	Elevation Reliability:

169.0

<u>WWIS</u>

006 CON INDIAN RESERVE GOLDEN LAKE 39 5049383 margin of error : 100 m - 300 m 17-MAR-69 44 ft 25 ft CLEAR Water Supply N

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Golden Lake Phase I ESA Proposal Inintig Inamo Golden Lake ON

Map Key	Number Records	of	Elevation m	Site			DB
Depth to Bed	rock:	20 EDESH			Overburden/Bedrock:	Overburden below Bedro	ock
Details		FRESH			Casing Material.	OPEN HOLE, STEEL	
Thickness:	1	20 ft			Original Depth:	20 ft	
+	iour:				Material:	HARDPAN, BOULDERS)
Thickness:		23 ft			Original Depth:	43 ft	
Material Co +	olour:	GREY			Material:	GRANITE	
Thickness:		1 ft			Original Depth:	44 ft	
Material Co +	lour:				Material:	HARDPAN	
Thickness:		126 ft			Original Depth:	170 ft	
Material Co +	lour:	WHITE			Material:	LIMESTONE	
Thickness:		12 ft			Original Depth:	182 ft	
Material Co	olour:	GREY			Material:	GRANITE	

1 of 1

98

Well Id:

62

198.1

5515566

		ON			
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity:	5509612 10 RENFREW 323384.6 18 Domestic 3 GPM		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Einal Wall Status:	011 CON SOUTH ALGONA 5048048 unknown UTM 18-JUL-89 89 ft 12 ft CLEAR Water Supply	
Construction Method:	Rotary (Air) 198 3		Flowing (y/n):	N	
Depth to Bedrock: Water Type:	7 FRESH		Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL	
Details					
Thickness: Material Colour:	7 ft BROWN		Original Depth: Material:	7 ft HARDPAN	
т Thickness: Material Colour:	23 ft GREY		Original Depth: Material:	30 ft LIMESTONE	
т Thickness: Material Colour:	23 ft GREY		Original Depth: Material:	53 ft GRANITE	
+ Thickness: Material Colour:	14 ft GREY		Original Depth: Material:	67 ft GRANITE	
+ Thickness: Material Colour:	22 ft GREY		Original Depth: Material:	89 ft LIMESTONE	
+ Thickness: Material Colour:	16 ft GREY		Original Depth: Material:	105 ft GRANITE	
99 1 of 1	200.0	ON			<u>WWIS</u>

Lot:

<u>WWIS</u>

Map Key	Number Record	r of s	Elevation m	Site		DB
Concession: County: Easting Nad Zone: Primary Wat Sec. Water U Pump Rate: Elow Pate:	83: ter Use: Use:	10 RENFREW 323389 18 Not Used			Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy:	CON INDIAN RESERVE GOLDEN LAKE 39 5047984 margin of error : 100 m - 300 m 08-JUN-04
Specific Cap Construction Elevation (m Depth to Be Water Type:	oacity: n Method: n): drock:	Not Known 200.52			Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	Abandoned-Other No formation data
101	1 of 1		178.3	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water U Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bed Water Type:	83: ier Use: Use: nacity: n Method: n): drock:	5502561 10 RENFREW 323849.6 18 Domestic 8 GPM Cable Tool 178.11 24 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	005 CON INDIAN RESERVE GOLDEN LAKE 39 5049223 margin of error : 30 m - 100 m 02-JUN-70 24 ft 14 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Thickness. Material C + Thickness.	: olour: :	24 ft 86 ft			Original Depth: Material: Original Depth:	24 ft HARDPAN, BOULDERS 110 ft
Material C + Thickness. Material C	olour: : olour:	GREY 40 ft RED			Material: Original Depth: Material:	GRANITE 150 ft GRANITE
103	1 of 1		185.2	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad	83:	5506284 RENFREW 323328.6			Lot: Concession Name: Municipality: Northing Nad83:	CON INDIAN RESERVE GOLDEN LAKE 39 5048322

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Air Precussion

18

Domestic

15 GPM

185.44

FRESH

70

Zone:

Primary Water Use:

Sec. Water Use:

Specific Capacity:

Depth to Bedrock:

Elevation (m):

Water Type:

Construction Method:

Pump Rate:

Flow Rate:

Inintig Inamo Golden Lake ON

Casing Material:

Utm Reliability:

Well Depth:

Clear/Cloudy:

Flowing (y/n):

Construction Date:

Static Water Level:

Final Well Status:

Elevation Reliability:

Overburden/Bedrock:

Order #: 20131203044

margin of error : 100 m - 300 m

23-SEP-80

Water Supply

OPEN HOLE, STEEL

70 ft

27 ft

Ν

CLEAR

Bedrock

Мар Кеу	Numbe Record	r of s	Elevation m	Site		DB
Details Thickness Material C	 S: Colour:	70 ft BROWN			Original Depth: Material:	70 ft OVERBURDEN, BOULDERS, SAND
+ Thickness Material C	s: Colour:	90 ft BLACK			Original Depth: Material:	160 ft GRANITE, DENSE, HARD
+ Thickness Material C	s: Colour:	26 ft WHITE			Original Depth: Material:	186 ft LIMESTONE, QUARTZ, HARD
107	1 of 1		175.0	ON		<u>WWIS</u>
Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (n Depth to Be Water Type: Details Thickness Material C + Thickness	: d83: ter Use: Use: pacity: n Method: n): edrock: colour: S: Colour:	5502556 10 RENFREW 323519.6 18 Public 15 GPM Cable Tool 174.29 9 FRESH 9 ft BROWN 71 ft GREY 20 ft			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material: Original Depth: Material:	003 CON INDIAN RESERVE GOLDEN LAKE 39 5049023 margin of error : 30 m - 100 m 05-JUN-70 9 ft 11 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 9 ft TOPSOIL 80 ft GRANITE
Material C	Colour:	RED			Material:	GRANITE
111	1 of 1		175.0	ON		<u>WWIS</u>
Well Id: Concession County: Easting Nac Zone: Primary Wa Sec. Water Pump Rate: Flow Rate: Specific Cal Construction Elevation (n Depth to Be Water Type:	r: d83: Use: Secity: n Method: n): edrock: :	7192914 RENFREW 326404 18			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	INDIAN RESERVE GOLDEN LAKE 39 5048301 margin of error : 100 m - 300 m 19-NOV-12
112	1 of 1		176.3	ON		<u>WWIS</u>
64	erisinfo Golden	. <u>com</u> Ecol Lake Pha	Log ERIS Lto se I ESA Pro	d. oposal Inii	ntig Inamo Golden Lake	Order #: 20131203044 ON

Мар Кеу	Number Records	r of S	Elevation m	Site		DB
Well Id: Concession. County: Easting Nao Zone: Primary Wat Sec. Water Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Be Water Type:	l83: ter Use: Use: pacity: n Method: n): drock:	5503559 10 RENFREW 323188.6 18 Domestic 6 GPM Air Precuss 176.34 6 FRESH	ion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	009 CON INDIAN RESERVE GOLDEN LAKE 39 5048488 margin of error : 30 m - 100 m 22-AUG-74 81 ft 20 ft CLEAR Water Supply N Overburden below Bedrock OPEN HOLE,STEEL
Details Thickness Material C + Thickness Material C	- : : : :olour:	6 ft BROWN 75 ft BLACK			Original Depth: Material: Original Depth: Material:	6 ft SAND, STONES 81 ft GRANITE
+ Thickness Material C	: olour:	84 ft			Original Depth: Material:	165 ft STONES, MEDIUM SAND, CLAY
+ Thickness Material C +	: olour:	26 ft WHITE			Original Depth: Material:	191 ft SANDSTONE
Thickness Material C +	: olour:	15 ft BROWN			Original Depth: Material:	206 ft SANDSTONE
Thickness Material C +	: colour:	52 ft WHITE			Original Depth: Material:	258 ft SANDSTONE
Thickness Material C	: colour:	7 ft BLACK			Original Depth: Material:	265 ft SANDSTONE
113	1 of 1		193.0	ON		WWIS
Well Id: Concession County:	:	5516600 10 RENFREW			Lot: Concession Name: Municipality:	080 CON INDIAN RESERVE GOLDEN LAKE 39

Easting Nad83: 323123 Northing Nad83: 5048045 Utm Reliability: Zone: 18 margin of error : 10 - 30 m Primary Water Use: Construction Date: 17-OCT-06 Domestic Sec. Water Use: Well Depth: 7.3 m Pump Rate: 35 LPM Static Water Level: 13.6 m Flow Rate: Clear/Cloudy: CLEAR Specific Capacity: Final Well Status: Water Supply Construction Method: Rotary (Convent.) Flowing (y/n): Elevation (m): 194.7 Elevation Reliability: Overburden/Bedrock: Depth to Bedrock: 24 Bedrock FRESH **OPEN HOLE, STEEL** Water Type: Casing Material: --- Details ---Thickness: Original Depth: 7.3 m 7.3 m BROWN STONES, SAND, GRAVEL Material Colour: Material: + Thickness: 41.5 m Original Depth: 48.8 m 65

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Inintig Inamo Golden Lake ON

Map Key	Number Record	r of s	Elevation m	Site		DB
Material Co	olour:	WHITE			Material:	GRANITE
114	1 of 1		210.0	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water U Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Beo Water Type: Details Thickness: Material Co +	83: er Use: Jse: nacity: Method:): drock:	5512843 10 RENFREW 323149 18 Domestic 20 GPM Rotary (Air) 210.91 12 FRESH 2 ft BROWN			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	011 CON SOUTH ALGONA 5047699 margin of error : 10 - 30 m 14-OCT-96 67 ft 46 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 2 ft TOPSOIL
+ Thickness: Material Co + Thickness: Material Co	olour: olour:	10 ft BROWN 55 ft RED			Original Depth: Material: Original Depth: Material:	12 ft MEDIUM GRAVEL, DRY 67 ft GRANITE, LAYERED
+ Thickness: Material Co	olour:	197 ft GREY			Original Depth: Material:	264 ft GRANITE, LAYERED
116	1 of 1		172.9	ΟΝ		<u>wwis</u>
Well Id: Concession: County: Easting Nada Zone: Primary Wat Sec. Water U Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bed Water Type: Details Thickness: Material Co + Thickness:	83: er Use: Jse: Jse: Method:): drock: olour:	5507499 11 RENFREW 323329.6 18 Domestic 2 GPM Cable Tool 172.89 27 FRESH 27 ft BROWN 45 ft WHITE			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	010 CON INDIAN RESERVE GOLDEN LAKE 39 5049023 margin of error : 100 m - 300 m 12-JUL-76 72 ft 5 ft CLEAR Water Supply N Bedrock STEEL 27 ft SAND, GRAVEL, LOOSE 72 ft LIMESTONE
117	1 of 1		180.5	Golden Lk FN	I Dump 1979	ANDR

Golden Lake ON K0J 1X0

Legal Description: Location Description: Municipality: Current Municipality: RM: Facility: Date Active: Date Begun: Date Complete:	Golden Lake FN [IR39] N Algona 50m S of CNR R-O-W, 50m to Bonnechere R trib., Golden Lake FN [IR39] Golden Lake FN [IR39] Renfrew County Dump 1979
Area (Ha):	0.75
Landfill Type:	Sanitary landfill
Group Name:	Bonnechere River
Sorial:	PEN2 1070
	NENZ 1979 21611
Diamotor (m):	100
Waste Type:	100
UTM X Nad 27	326525
UTM Y Nad 27:	5047800
UTM Zone:	18
Historical Summary:	Golden Lk FN Dump 1979 1984 NTS Map 31F11 Dump marked, approx. 75m x 100m, 50m S of CNR R-O-W, 50m to Bonnechere R trib., [1984 NTS 1:50,000 Map Golden Lake ON edition 3 (air photos 1979, culture check 1981, publication 1984)].

118	1 of 1	2	03.2 C	DN .		<u>wwis</u>	
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water O Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Bed Water Type:	183: ter Use: Use: pacity: n Method: n): drock:	5509503 10 RENFREW 323034.1 18 Domestic 5 GPM Rotary (Air) 204.05 33 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	012 CON SOUTH ALGONA 5047853 unknown UTM 01-JUN-89 33 ft 8 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL	
Details Thickness	-	20 ft			Original Depth:	20 ft	
Material C +	olour:	BROWN			Material:	SAND, GRAVEL, WATER-BEARING	G
Thickness Material C	: olour:	13 ft GREY			Original Depth: Material:	33 ft CLAY, GRAVEL, PACKED	
Thickness Material C	: olour:	92 ft GREY			Original Depth: Material:	125 ft BASALT, BASALT, GRANITE	
119	1 of 1	1	81.0 O)N		<u>WWIS</u>	
Well Id: Concession:		5516497 10			Lot: Concession Name:	003 CON	
67	erisinfo	.com EcoLo	g ERIS Ltd.	al Indiation I		Order #: 20131203044	1
	Golden	Lake Phase	ELESA Proposa	ai inintig li	namo Golden Lake	UN	

Map Key	Numbel Record	r of s	Elevation m	Site		DB
County:	20.	RENFREW	1		Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Nade	33:	323429			Northing Nad83:	5049288
ZONE: Drimon Wote	or Lloo:	18 Domostio			Ottin Reliability:	margin of error : 10 - 30 m
Soc Water L	51 USE. Iso	Domestic			Well Denth:	54.9 m
Pump Rate:	JSC.	27 I PM			Static Water Level	10.4 m
Flow Rate:					Clear/Cloudy:	CLEAR
Specific Capa	acity:				Final Well Status:	Water Supply
Construction	Method:	Air Precuss	sion		Flowing (y/n):	
Elevation (m)):	180.15			Elevation Reliability:	
Depth to Bed	lrock:	1			Overburden/Bedrock:	Bedrock
Water Type:					Casing Material:	OPEN HOLE,STEEL
Details						
Thickness:		.3 m			Original Depth:	.3 m
Material Co	olour:	BROWN			Material:	TOPSOIL
+						
Thickness:	,	10.1 m			Original Depth:	10.4 m
Material Co	olour:	WHILE			Material:	DOLOMITE
Thickness:		16.7 m			Original Depth:	27.1 m
Material Co	olour:	GREY			Material:	GRANITE
+						
Thickness:		6.7 m			Original Depth:	33.8 m
Material Co	olour:	GREY			Material:	GRANITE
+ Thickness		2.5 m			Original Depth:	36 3 m
Material Co	olour.	2.5 m WHITE			Material	GRANITE
+	nour.	VVI II I L			material.	ORANITE
Thickness:		18.6 m			Original Depth:	54.9 m
Material Co	olour:	GREY			Material:	GRANITE
120	1 of 1		203.1			WWIS
				ON		
Mall Id:		5515200			L of:	099
Concession:		10			Lui. Concession Name:	
County:			1		Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Fasting Nade	33:	322939.1			Northing Nad83:	5047889
Zone:		18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Wate	er Use:	Not Used			Construction Date:	18-SEP-03
Sec. Water U	lse:				Well Depth:	
Pump Rate:					Static Water Level:	
Flow Rate:					Clear/Cloudy:	
Specific Capa	acity:				Final Well Status:	Abandoned-Other
Construction	Method:	Not Known			Flowing (y/n):	
Elevation (m)): Inc. e.l.:	203.63			Elevation Reliability:	No formation data
Depth to Bea	IFOCK:				Overburden/Bedrock:	No formation data
water Type.					Casing Material.	
121	1 of 1		172 4			M/M/S
121	1011		172.4	ON		<u></u>
Malle		EE1E101			Lot	010
vveli la:		5515401 10			LUT: Concession Name:	
County:			1		Concession Name: Municipality:	
Easting Nade	3.3.	326768.2	1		Northing Nad83	5047967
Zone:		18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Wate	er Use:	Not Used			Construction Date:	23-SEP-03
		•				
68	erisinfo Golden	<u>.com</u> Ecol Lake Pha	Log ERIS L [:] se I ESA Pr	td. oposal Inini	tig Inamo Golden Lake	Order #: 20131203044 ON

Map Key Numbe Record	r of Is	Elevation m	Site		DB
Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	Not Known 172.6			Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	Abandoned-Other No formation data
125 1 of 1		171.0	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	7194150 RENFREW 327160 18	1		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	INDIAN RESERVE GOLDEN LAKE 39 5047784 margin of error : 30 m - 100 m 22-OCT-12
38 1 of 1		177.0	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type: Details	5500634 10 RENFREW 324994.7 18 Public Domestic 3 GPM Cable Tool 176 5 FRESH	1		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	007 CON INDIAN RESERVE GOLDEN LAKE 39 5049248 margin of error : 100 m - 300 m 04-FEB-63 5 ft 20 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Thickness: Material Colour: +	5 ft			Original Depth: Material:	5 ft TOPSOIL
Thickness: Material Colour: +	125 ft			Original Depth: Material:	130 ft LIMESTONE
Thickness: Material Colour:	63 ft GREY			Original Depth: Material:	193 ft GRANITE

Map Key Number Record		of Elevation m		Site		DB
53	1 of 1		170.0	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad8 Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bedl Water Type:	33: er Use: lse: acity: Method: : lrock:	5502993 10 RENFREW 324795.7 18 Domestic 12 GPM Cable Tool 170.48 6 FRESH	J		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	011 CON INDIAN RESERVE GOLDEN LAKE 39 5049341 margin of error : 30 m - 100 m 04-DEC-72 9 ft 15 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Details					eachig material	
Thickness: Material Co	olour:	6 ft BROWN			Original Depth: Material:	6 ft SAND, TOPSOIL
+ Thickness: Material Co	olour:	3 ft RED			Original Depth: Material:	9 ft SANDSTONE, SHALE
+ Thickness: Material Co	olour:	36 ft BROWN			Original Depth: Material:	45 ft SANDSTONE
+ Thickness: Material Co	olour:	20 ft GREY			Original Depth: Material:	65 ft LIMESTONE, SANDSTONE
+ Thickness: Material Co	olour:	18 ft BLACK			Original Depth: Material:	83 ft GRANITE
+ Thickness: Material Co	olour:	37 ft GREY			Original Depth: Material:	120 ft SANDSTONE

1 of 1 73

ΟΝ

172.9

Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	5502297 10 RENFREW 325359.7 18 Domestic 4 GPM Cable Tool 171.34 8 FRESH	Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	006 CON INDIAN RESERVE GOLDEN LAKE 39 5049273 margin of error : 100 m - 300 m 08-AUG-69 8 ft 4 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL
Details Thickness:	8 ft	Original Depth:	8 ft

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<u>WWIS</u>

Map Key	Numbe Record	r of s	Elevation m	Site			DB
Material C	Colour:				Material:	HARDPAN	
+							
Thickness	:	17 ft			Original Depth:	25 ft	
Material C	Colour:				Material:	LIMESTONE	
+							
Thickness	2	134 ft			Original Depth:	159 ft	
Material C	Colour:	GREY			Material:	GRANITE	
77	1 of 1		172.0	01			<u>WWIS</u>
				ON			
Well Id:		5502294			Lot:	010	
Concession	:	11 DENEDEV			Concession Name:		
Easting Nac	183:	325379.7	v		Northing Nad83:	5049273	LDEN LARE 39
Zone:		18			Utm Reliability:	margin of error : 30 m -	100 m
Primary Wa	ter Use:	Domestic			Construction Date:	21-JUL-69	
Sec. Water	Use:	8 GPM			vvell Deptn: Static Water Level	14 π 7 ft	
Flow Rate:					Clear/Cloudy:	CLEAR	
Specific Ca	pacity:	o			Final Well Status:	Water Supply	
Construction	n Method:	Cable 100	I		Flowing (y/n): Elevation Reliability:	Ν	
Depth to Be	drock:	14			Overburden/Bedrock:	Bedrock	
Water Type	:	FRESH			Casing Material:	OPEN HOLE, STEEL	
Details	-						
Thickness		14 ft			Original Depth:	14 ft	
Material C +	olour:				Material:	HARDPAN	
Thickness		95 ft			Original Depth:	109 ft	
Material C	colour:				Material:	ROCK	
78	1 of 1		173.1	ON			<u>WWIS</u>
				en			
Well Id:		5514831			Lot: Concossion Nama:	003 CON	
Concession County:	•	RENFREV	V		Municipality:	INDIAN RESERVE GO	LDEN LAKE 39
Easting Nac	183:	324505.3			Northing Nad83:	5049391	
Zone:	tor Lloo:	18 Domostia			Utm Reliability:	margin of error : 100 m	- 300 m
Sec. Water	Use:	Domestic			Well Depth:	48 ft	
Pump Rate:		3 GPM			Static Water Level:	19 ft	
Flow Rate:					Clear/Cloudy:	CLEAR	
Construction	n Method [.]	Air Precus	sion		Final Well Status: Flowing (v/n)	N	
Elevation (n	n):	174.29			Elevation Reliability:		
Depth to Be Water Type	drock: :	48			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL	
Details	-						
Thickness	2	30 ft			Original Depth:	30 ft	
Material C	Colour:	BROWN			Material:	SAND, STONES	
+ Thickness	:	18 ft			Original Depth:	48 ft	

Мар Кеу	Numbe Record	r of s	Elevation m	Site		DB
Material C	Colour:	BROWN			Material:	SAND, TILL, HARDPAN
+ Thicknoss	. .	102 ft			Original Donth:	150 ft
Matarial). Dolouw				Oliginal Depth. Motoriali	
+	,01001.	GRET			Material.	GRANITE
Thickness	52	10 ft			Original Depth:	160 ft
Material C	Colour:	GREY			Material:	GRANITE
79	1 of 1		168.1	ON		<u>WWIS</u>
						242
Well Id:		5502560			Lot: Concession Nome:	
Concession County:		RENEREV	V		Municipality	INDIAN RESERVE GOLDEN LAKE 39
Easting Nac	183:	324689.7	•		Northing Nad83:	5049423
Zone:		18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Wa	ter Use:	Domestic			Construction Date:	22-JUN-70
Sec. Water	Use:	2 GPM			Well Depth: Static Water Level:	85 Π 9 ft
Flow Rate:		2 01 10			Clear/Cloudy:	CLEAR
Specific Ca	oacity:				Final Well Status:	Water Supply
Construction	n Method:	Cable Too	I		Flowing (y/n):	Ν
Elevation (n	n): drock:	167.66			Elevation Reliability:	Bodrock
Water Type	: :	FRESH			Casing Material:	OPEN HOLE,STEEL
Details	-					
Thickness	5 <i>:</i>	6 ft			Original Depth:	6 ft
Material C	Colour:	BROWN			Material:	MEDIUM SAND
+						
Thickness); ;	79 ft			Original Depth:	85 ft
Material C	Colour:	GREY			Material:	GRANITE
+		105 (242.6
Thickness); 	125 ft			Original Depth:	210 ft
Material C	Colour:	RED			Material:	GRANITE
' Thickness): 	30 ft			Original Depth:	240 ft
Material C	Colour:	GREY			Material:	GRANITE
80	1 of 1		169.1			<u>WWIS</u>
				ON		
Well Id:		5504394			Lot:	007
Concession	:	10			Concession Name:	
County: Easting Nor	183.	KENFREV 32/620 7	V		Municipality: Northing Mad83:	INDIAN RESERVE GOLDEN LAKE 39
Zone:	103.	324029.7 18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Wa	ter Use:	Domestic			Construction Date:	06-OCT-76
Sec. Water	Use:				Well Depth:	286 ft
Pump Rate:		3 GPM			Static Water Level:	19 ft
Flow Rate: Specific Ca	oacity:				Final Well Status:	Water Supply

Water Supply Ν

Flowing (y/n): Elevation Reliability:

Overburden/Bedrock:

Casing Material:

Bedrock

OPEN HOLE, STEEL

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Rotary (Air)

167.99 21

FRESH

Construction Method:

72

Elevation (m): Depth to Bedrock:

Water Type:

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Map Key Numbe Record	r of Is	Elevation m	Site		DB
Details Thickness:	21 ft			Original Depth:	21 ft
Material Colour:	BROWN			Material:	OVERBURDEN, BOULDERS, SANDY
Thickness:	121 ft			Original Depth:	142 ft
Material Colour:	WHITE			Material:	SANDSTONE
Thickness:	139 ft			Original Depth:	281 ft
Material Colour:	BLACK			Material:	GRANITE
+	- 4				
Thickness: Material Colour:	5 ft CREV			Original Depth: Material:	286 tt
	GRET			material.	GRANITE
82 1 of 1		171.4	01		<u>WWIS</u>
			ON		
Well Id:	5502558			Lot:	008
Concession:	10 RENEREV	N/		Concession Name: Municipality:	CON INDIAN RESERVE GOLDEN LAKE 39
Easting Nad83:	324509.7	v		Northing Nad83:	5049423
Zone:	18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	17-JUN-70
Sec. Water Use:	20 CDM			Well Depth: Static Water Level:	82 ft
Flow Rate:	20 01 10			Clear/Cloudy:	CLEAR
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Too	bl		Flowing (y/n):	Ν
Elevation (m):	172.41 60			Elevation Reliability:	Bedrock
Water Type:	FRESH			Casing Material:	OPEN HOLE,STEEL
Details					
Thickness:	60 ft			Original Depth:	60 ft
Material Colour:	BROWN			Material:	HARDPAN
Thickness:	22 ft			Original Depth:	82 ft
Material Colour:	GREY			Material:	GRANITE
85 1 of 1		169.0			WWIS
			ON		
Well Id:	5502688			Lot:	006
Concession:	10	.,		Concession Name:	CON
County:	RENEREV	V		Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Zone:	324004.7 18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Water Use:	Domestic			Construction Date:	15-JUN-71
Sec. Water Use:				Well Depth:	4 ft
Pump Rate:	4 GPM			Static Water Level:	19 tt
Specific Capacity:				Final Well Status:	Water Supply
Construction Method:	Cable Too)		Flowing (y/n):	N
Elevation (m):	167.84			Elevation Reliability:	
Deptn to Bedrock: Water Type:	4 FRESH			Overburden/Bedrock: Casing Material:	Bearock OPEN HOLE,STEEL

Мар Кеу	Numbe Record	r of s	Elevation m	Site		DB
Details -						
Thicknes	s:	4 ft			Original Depth:	4 ft
Matorial (Colour:				Material:	
Material	<i>Solour.</i>	BROWN			Malenai.	TOFSOL
+						
Thicknes	s:	20 ft			Original Depth:	24 ft
Material C	Colour:				Material:	LIMESTONE
+						
Thicknos	o <i>.</i>	160 #			Original Dopth:	194 ft
	s.					
Material C	Colour:	GREY			Material:	GRANITE
89	1 of 1		173.6	ON		<u>WWIS</u>
Well Id:		5500635			Lot:	010
Concessior	า:	10			Concession Name:	CON
County:		RENFREV	V		Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Na	d83:	324429.7			Northing Nad83:	5049433
Zone:		18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Wa	ater Use:	Public			Construction Date:	20-SEP-63
Sec. Water	· Use:				Well Depth:	50 ft
Pump Rate	2	6 GPM			Static Water Level:	17 ft
How Rate:	•.				Clear/Cloudy:	CLEAR
Specific Ca	pacity:	<u> </u>			Final Well Status:	Water Supply
Constructio	on Method:	Cable I oo	1		Flowing (y/n):	Ν
Elevation (r	m):	174.02			Elevation Reliability:	
Water Type	edrock: e:	50 FRESH			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL
Details -						
Thicknes	s:	43 ft			Original Depth:	43 ft
Material (Colour:				Material:	HARDPAN, BOULDERS
+ Thicknes	s:	7 ft			Original Depth:	50 ft
Material (Colour:				Material:	GRAVEL STONES
	o o lo di .				material	
+ Thicknes:	s:	50 ft			Original Depth:	100 ft
Material (Colour:				Material:	GRANITE, DOLOMITE
91	1 of 1		169.0			<u>wwis</u>
				ON		
Well Id:		5502684			Lot:	007
Concessior	า:	10			Concession Name:	CON
County:		RENFREV	V		Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Na	d83:	324529.7			Northing Nad83:	5049473
Zone:		18			Utm Reliability:	margin of error : 30 m - 100 m
Primary Wa	ater Use:	Domestic			Construction Date:	30-JUN-71
Sec. Water	·Use:				Well Depth:	40 ft
Pump Rate):	3 GPM			Static Water Level:	12 ft
Flow Rate:					Clear/Cloudy:	CLEAR
Specific Ca	pacity:				Final Well Status:	Water Supply
Constructio	on Method:	Cable Too	1		Flowing (y/n):	Ν
Elevation (r	m):	168.93			Elevation Reliability:	

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4 FRESH

Depth to Bedrock: Water Type:

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Overburden/Bedrock: Casing Material:

Bedrock

OPEN HOLE, STEEL

Мар Кеу	Number Records	r of s	Elevation m	Site		DB
Details						
Thickness:		4 ft			Original Depth:	
	olour:	BROWN			Material.	TOPSOIL
Thickness		36 ft			Original Depth:	40 ft
Material C	olour:	RED			Material:	GRANITE
+						
Thickness:	;	119 ft			Original Depth:	159 ft
Material C	olour:	GREY			Material:	GRANITE
93	1 of 1		170.0	ON		<u>WWIS</u>
Well Id: Concession: County: Easting Nad Zone: Primary Wat Sec. Water U Pump Rate: Flow Rate: Specific Cap Construction Elevation (m Depth to Beo Water Type:	83: Jse: Jse: Dacity: Method:): drock:	5516501 10 RENFRE 325631 18 Domestic 40 LPM Air Precu 171.38 49 FRESH	EW c ussion		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	012 CON INDIAN RESERVE GOLDEN LAKE 39 5049228 margin of error : 10 - 30 m 03-AUG-06 48.8 m 2 m CLEAR Water Supply Bedrock OPEN HOLE,STEEL
Details						
Thickness:	;	12.5 m			Original Depth:	12.5 m
Material C	olour:	BROWN			Material:	SAND, TILL, BOULDERS
+		0.4			Original Density	11.0
I NICKNESS		2.4 m			Original Depth:	
	olour.	DROWN			Malenal.	SAND, GRAVEL
Thickness		13.1 m			Original Denth:	28 m
Material C	olour:	WHITE			Material:	DOLOMITE
+						
Thickness:	·	20.8 m			Original Depth:	48.8 m
Material C	olour:	GREY			Material:	GRANITE
94	1 of 2		174.6	KAREN WHALI 153 KOKOMIS GOLDEN LAKE	EN INAMO E ON K0J 1X0	EXP
Instance ID: TSSA Progra Maximum Ha Instance Nui Instance Typ Status: Description:	am Area: azard Rani mber: be:	k:	11600952 FS Liquid Fuel Ta EXPIRED	nk		

Map Key Number Records		of Elevation s m	Site	Site				
94	2 of 2	174.6	KAREN WH 153 KOKON GOLDEN LA	IALEN MIS INAMO AKE ON KOJ 1X0	EXP			
Instance ID TSSA Prog Maximum F Instance Nu Instance Ty Status: Description	: ram Area: łazard Ran umber: rpe: :	k: 10285623 FS Facility EXPIRED						
96	1 of 1	174.3	ΟΝ		<u>WWIS</u>			
Well Id: Concession County: Easting Nate Zone: Primary Wa Sec. Water Pump Rate Flow Rate: Specific Ca Constructio Elevation (n Depth to Be Water Type Details Thickness Material C	n: d83: uter Use: Use: : pacity: n Method: n): edrock: e: :: :: :: :: :: ::	5503571 10 RENFREW 324284.7 18 Domestic 10 GPM Air Precussion 174.49 21 FRESH 21 ft RED		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	007 CON INDIAN RESERVE GOLDEN LAKE 39 5049424 margin of error : 30 m - 100 m 18-JUN-74 72 ft 10 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 21 ft OVERBURDEN, STONES, SAND			
+ Thickness Material (+	s: Colour:	51 ft RED		Original Depth: Material:	72 ft GRANITE			
i nickness Material (s: Colour:	53 π WHITE		Original Depth: Material:	125 π SANDSTONE			
100	1 of 1	171.2	ΟΝ		<u>WWIS</u>			
Well Id: Concession	ŋ <i>.</i>	5502564 10		Lot: Concession Name:	006 CON			

	000200.				
Concession:	10	Concession Name:	CON		
County:	RENFREW	Municipality:	INDIAN RESERVE GOLDEN LAKE 39		
Easting Nad83:	324279.7	Northing Nad83:	5049473		
Zone:	18	Utm Reliability:	margin of error : 30 m - 100 m		
Primary Water Use:	Domestic	Construction Date:	24-JUL-70		
Sec. Water Use:		Well Depth:	61 ft		
Pump Rate:	7 GPM	Static Water Level:	7 ft		
Flow Rate:		Clear/Cloudy:	CLEAR		
Specific Capacity:		Final Well Status:	Water Supply		
Construction Method:	Cable Tool	Flowing (y/n):	N		
Elevation (m):	172.54	Elevation Reliability:			
Depth to Bedrock:	61	Overburden/Bedrock:	Bedrock		
Water Type:	FRESH	Casing Material:	OPEN HOLE,STEEL		
Мар Кеу	Numbe Record	r of Elevation s m	Site		DB
--	--	---	--------------------------------	--	--
Details - Thicknes Material (s: Colour:	61 ft		Original Depth: Material:	61 ft CLAY
Thicknes Material (s: Colour:	110 ft		Original Depth: Material:	171 ft GRANITE
102	1 of 1	171.0	ON		<u>WWIS</u>
Well Id: Concession County: Easting Na Zone: Primary Wa Sec. Water Pump Rate Flow Rate: Specific Ca Constructio Elevation (I Depth to Be Water Type Details - Thickness Material (n: d83: Use: Use: pacity: n Method: n): edrock: edrock: o: s: S: Colour:	5501801 10 RENFREW 324279.7 18 Domestic 3 GPM Cable Tool 171.87 67 FRESH 10 ft		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth: Material:	008 CON INDIAN RESERVE GOLDEN LAKE 39 5049498 margin of error : 100 m - 300 m 31-JUL-67 67 ft 8 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 10 ft GRAVEL
Thicknes Material (s: Colour:	57 ft		Original Depth: Material:	67 ft HARDPAN, BOULDERS
т Thicknes Material (s: Colour:	63 ft WHITE		Original Depth: Material:	130 ft LIMESTONE
104	1 of 1	202.9	No address, p Golden Lake F	roperty is lot 36-10 First Nations Territory C	<u>EHS</u>
Order No.: Report Date Report Typ Search Rac Addit. Info	e: e: dius (km): Ordered:	20090630046 7/10/2009 Custom Report 0.25 Aerial Photos			
105	1 of 1	171.6	ON		<u>WWIS</u>
Well Id: Concessior County: Easting Na Zone: Primary Wa Sec. Water Pump Rate	n: d83: ater Use: Use: :	5502218 10 RENFREW 323859.6 18 Domestic 2 GPM		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level:	005 CON INDIAN RESERVE GOLDEN LAKE 39 5049323 margin of error : 100 m - 300 m 17-FEB-69 8 ft 15 ft
77	7 erisinfo Golden	. <u>.com</u> EcoLog ERIS Lto Lake Phase I ESA Pro	d. posal Inintig	Inamo Golden Lake	Order #: 20131203044 ON

Map Key	Numbe Record	r of 's	Elevation m	Site		DB
Flow Rate: Specific Ca Constructio Elevation (r	pacity: n Method: n):	Cable Tool			Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability:	CLEAR Water Supply N
Depth to Be Water Type	edrock: e:	8 FRESH			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL
Details						
Thickness	S: Colouru	8 ft			Original Depth:	
+	<i>Joiour.</i>				Malerial.	HARDPAN, BOULDERS
Thickness	s:	192 ft			Original Depth:	200 ft
Material C	Colour:				Material:	LIMESTONE
106	1 of 1		171.0			<u>WWIS</u>
				ON		
Well Id:		5516152			Lot:	005
Concession County:	1.	RENEREW			Municipality	NORTH ALGONA
Easting Nac	d83:	324445			Northing Nad83:	5049609
Zone:		18			Utm Reliability:	
Primary Wa	ater Use:	Domestic			Construction Date: Well Denth:	18-AUG-05 4.5 m
Pump Rate	:	36 LPM			Static Water Level:	3.37 m
Flow Rate:					Clear/Cloudy:	CLEAR
Specific Ca	pacity:	Cable Tool			Final Well Status:	Water Supply
Elevation (n	n):	171.87			Elevation Reliability:	
Depth to Èe Water Type	edrock: e:	9			Overburden/Bedrock: Casing Material:	Bedrock OPEN HOLE,STEEL
Details						
Thickness	S <i>:</i>	2.7 m			Original Depth:	2.7 m
Material C +	Colour:				Material:	CLAY, BOULDERS, PACKED
Thickness	s:	1.8 m			Original Depth:	4.5 m
Material C +	Colour:	GREY			Material:	GRANITE, , HARD
Thickness	S <i>:</i>	5.5 m			Original Depth:	10 m
Material C +	Colour:	WHITE			Material:	LIMESTONE, GRANITE, HARD
Thickness	s:	2.7 m			Original Depth:	12.7 m
Material C	Colour:	RED			Material:	GRANITE, , HARD
Thickness	S <i>:</i>	9.4 m			Original Depth:	22.1 m
Material C	Colour:	GREY			Material:	LIMESTONE
108	1 of 1		172.7			<u>WWIS</u>
				ON		
Well Id:		5502686			Lot:	009
Concession	n:				Concession Name:	
County: Fasting Na	d83:	323769 6			wunicipality: Northing Nad83	INDIAN RESERVE GOLDEN LAKE 39 5049323
Zone:		18			Utm Reliability:	margin of error : 30 m - 100 m
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Map Key Numl Reco	ber of rds	Elevation m	Site			DB
Primary Water Use:	Domestic			Construction Date:	09-JUN-71	
Sec. Water Use:				Well Depth:	5 ft	
Pump Rate:	6 GPM			Static Water Level:	10 ft	
Flow Rate:				Clear/Cloudy:	CLEAR	
Specific Capacity:				Final Well Status:	Water Supply	
Construction Method	d: Cable Tool			Flowing (y/n):	Ν	
Elevation (m):	171.98			Elevation Reliability:		
Depth to Bedrock:	5			Overburden/Bedrock:	Bedrock	
Water Type:	FRESH			Casing Material:	OPEN HOLE, STEEL	
Details						
Thickness:	5 ft			Original Depth:	5 ft	
Material Colour:	BROWN			Material:	TOPSOIL	
+						
Thickness:	170 ft			Original Depth:	175 ft	
Material Colour:	GREY			Material:	GRANITE	

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<u>WWIS</u>

Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate: Specific Capacity: Construction Method: Elevation (m): Depth to Bedrock: Water Type:	5505365 10 RENFREW 323429.6 18 15 GPM Rotary (Air) 204.58 18 FRESH		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	011 CON INDIAN RESERVE GOLDEN LAKE 39 5047323 margin of error : 100 m - 300 m 16-OCT-78 36 ft 30 ft CLEAR Test Hole N Bedrock OPEN HOLE,STEEL
Details Thickness: Material Colour: + Thickness: Material Colour: + Thickness: Material Colour:	18 ft BROWN 18 ft RED 172 ft RED		Original Depth: Material: Original Depth: Material: Original Depth: Material:	18 ft SAND, GRAVEL, BOULDERS 36 ft GRANITE, QUARTZ, FELDSPAR 208 ft DOLOMITE, GRANITE, QUARTZ
110 1 of 1	169.1	ON		<u>wwis</u>
Well Id: Concession: County: Easting Nad83: Zone: Primary Water Use: Sec. Water Use: Pump Rate: Flow Rate:	5502296 10 RENFREW 323829.6 18 Domestic 10 GPM		Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy:	005 CON INDIAN RESERVE GOLDEN LAKE 39 5049403 margin of error : 30 m - 100 m 01-AUG-69 169 ft 5 ft CLEAR

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205.0

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Order #: 20131203044

Мар Кеу	Number Records	r of S	Elevation m	Site			DB
Specific Capa Construction Elevation (m) Depth to Bed Water Type:	acity: Method:): Irock:	Cable Tool 169.75 15 FRESH			Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	Water Supply N Bedrock OPEN HOLE,STEEL	
Details Thickness: Material Co	olour:	15 ft			Original Depth: Material:	15 ft HARDPAN	
+ Thickness: Material Cc	blour:	154 ft			Original Depth: Material:	169 ft ROCK	
115	1 of 1		170.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type:	33: Jse: Jse: Method:): Irock:	5502683 10 RENFREW 323639.6 18 Domestic 20 GPM Cable Tool 169.47 15 FRESH			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material:	009 CON SOUTH ALGONA 5049388 margin of error : 30 m - 17-JUN-71 70 ft 4 ft CLEAR Water Supply N Bedrock OPEN HOLE	100 m
Details Thickness: Material Cc +	olour:	15 ft BROWN			Original Depth: Material:	15 ft OVERBURDEN	
Thickness: Material Cc	olour:	55 ft RED			Original Depth: Material:	70 ft GRANITE	
122	1 of 2	:	215.0	ON			<u>WWIS</u>
Well Id: Concession: County: Easting Nad& Zone: Primary Wate Sec. Water U Pump Rate: Flow Rate: Specific Capa Construction Elevation (m) Depth to Bed Water Type: Details Thickness:	33: Ise: Ise: Method: ; rock:	5505392 09 RENFREW 322928.6 18 Domestic 8 GPM Rotary (Air) 215.72 12 FRESH 12 ft			Lot: Concession Name: Municipality: Northing Nad83: Utm Reliability: Construction Date: Well Depth: Static Water Level: Clear/Cloudy: Final Well Status: Flowing (y/n): Elevation Reliability: Overburden/Bedrock: Casing Material: Original Depth:	013 CON SOUTH ALGONA 5047222 margin of error : 100 m 18-OCT-78 268 ft 15 ft CLEAR Water Supply N Bedrock OPEN HOLE,STEEL 12 ft	· 300 m
80	erisinfo Golden	. <u>com</u> Ecol Lake Pha	Log ERIS Ltd. se I ESA Prop	osal Inintig I	namo Golden Lake	Order #: 201 ON	31203044

Мар Кеу	Number Records	r of S	Elevation m	Site		DB
Material Co	olour:	BROWN			Material:	SAND, STONES, LOOSE
' Thickness:		246 ft			Original Depth:	258 ft
Material Co	olour:	BLACK			Material:	GRANITE, SANDSTONE, HARD
+						
Thickness:		10 ft			Original Depth:	268 ft
Material Co	olour:	RED			Material:	GRANITE, HARD
122	2 of 2		215.0			<u>WWIS</u>
				ON		
Well Id:		5505391			Lot:	013
Concession:			1		Concession Name:	
Easting Nad	83·	322928 6	I		Nunicipality: Northing Nad83	500TH ALGONA 5047222
Zone:	00.	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Wate	er Use:	Domestic			Construction Date:	17-OCT-78
Sec. Water L	Jse:				Well Depth:	368 ft
Fump Rate.		3 GPIN			Clear/Cloudy:	CLEAR
Specific Cap	acity:				Final Well Status:	Water Supply
Construction	Method:	Rotary (Air)		Flowing (y/n):	N
Elevation (m)): drool <i>u</i>	215.72			Elevation Reliability:	Dedrook
Water Type:	JIOCK.	FRESH			Casing Material:	OPEN HOLE,STEEL
Details						
Thickness:		19 ft			Original Depth:	19 ft
Material Co	olour:	BROWN			Material:	SAND, TOPSOIL, BOULDERS
+						
Thickness:		349 ft			Original Depth:	368 ft
Material Co	olour:	RED			Material:	GRANITE, HARD
123	1 of 3		198.0			WWIS
				ON		
Well Id:		5506280			Lot:	013
Concession:		10			Concession Name:	CON
County: Easting Nad	83.	322728 6	1		Municipality: Northing Nad83:	SOUTH ALGONA
Zone:	00.	18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Wate	er Use:	Domestic			Construction Date:	17-SEP-80
Sec. Water L	Jse:				Well Depth:	56 ft
Pump Rate:		10 GPM			Static Water Level: Clear/Cloudy:	4π CLEAR
Specific Cap	acity:				Final Well Status:	Water Supply
Construction	Method:	Air Precus	sion		Flowing (y/n):	N
Elevation (m): dra a la	198.59			Elevation Reliability:	Dedreek
Water Type:	IFOCK:	5 FRESH			Casing Material:	OPEN HOLE,STEEL
Details					-	
Thickness		5 ft			Original Denth	5 ft
Material Co	olour:	BROWN			Material:	SAND. TOPSOIL LOOSE
+		2				
Thickness:		9 ft			Original Depth:	14 ft

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Мар Кеу	Number Records	r of S	Elevation m	Site		DB
Material Co	olour:	WHITE			Material:	DOLOMITE, FRACTURED
+ Thickness:		12 ft			Original Depth:	56 ft
Material Co	alour				Matorial	
	Jiour.	RED			Malenai.	GRANITE, HARD
Thickness		71 ft			Original Denth:	127 ft
Material Co	olour:	7110			Material:	CONGLOMERATE, GRANITE,
						SANDSTONE
123	2 of 3		198.0			<u>WWIS</u>
				ON		
Well Id:		5506282			Lot:	013
Concession:		10			Concession Name:	CON
County:		RENFREW	/		Municipality:	SOUTH ALGONA
Easting Nada	83:	322728.6			Northing Nad83:	5047822
Zone: Primary Wat	er l Ise	18 Domestic			Construction Date:	18-SEP-80
Sec. Water L	Jse:	Domostio			Well Depth:	7 ft
Pump Rate:		10 GPM			Static Water Level:	19 ft
Flow Rate:					Clear/Cloudy:	CLEAR
Specific Cap	acity:	Dotory (Air	A		Final Well Status:	Water Supply
Elevation (m).	108 50)		Flowing (y/n). Elevation Reliability:	IN
Depth to Bec). drock:	146			Overburden/Bedrock:	Mixed in a Layer
Water Type:		FRESH			Casing Material:	OPEN HOLE, STEEL
Details						
Thickness:		7 ft			Original Depth:	7 ft
Material Co	olour:	BROWN			Material:	SAND, STONES, TOPSOIL
+						
Thickness:		122 ft			Original Depth:	129 ft
Material Co	olour:	BLACK			Material:	STONES, GRANITE
+		47.4			Onining I Days the	4.40.5
I NICKNESS:	alour	17 It			Original Depth: Motorial:	146 II STONES CRANITE
	51001.	RED			Malenal.	STONES, GRANITE
' Thickness'		22 ft			Original Depth:	168 ft
Material Co	olour:	BLACK			Material:	STONES, GRANITE
123	3 of 3		198.0	01		<u>WWIS</u>
						
Well Id:		5506281			Lot:	013
Concession:		10	,		Concession Name:	CON
County: Fasting Nad	83·	322728 6	<i>V</i>		wunicipality: Northing Nad83	500TH ALGUNA 5047822
Zone:		18			Utm Reliability:	margin of error : 100 m - 300 m
Primary Wate	er Use:	Domestic			Construction Date:	16-SEP-80
Sec. Water L	Jse:				Well Depth:	92 ft
Pump Rate:		100 GPM			Static Water Level:	20 ft
FIOW Rate:	acity:				Clear/Cloudy:	ULEAK Water Supply
Construction	Method	Air Precus	sion		Final Weil Status. Flowing (v/n):	N
Elevation (m):	198.59			Elevation Reliability:	
Depth to Bec	drock:	15			Overburden/Bedrock:	Bedrock

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Order #: 20131203044

Map Key	Number of Records	Elevation m	Site		DB
Water Type:	FRESH			Casing Material:	OPEN HOLE,STEEL
Details					
Thickness:	15 ft			Original Depth:	15 ft
Material Co	olour: BROWN			Material:	SAND, STONES, LOOSE
+					
Thickness:	31 ft			Original Depth:	46 ft
Material Co	olour: WHITE			Material:	DOLOMITE, HARD
+					
Thickness:	46 ft			Original Depth:	92 ft
Material Co	olour: GREY			Material:	GRANITE, HARD
+					
Thickness:	76 ft			Original Depth:	168 ft
Material Co	olour: RED			Material:	GRANITE, HARD

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			ON		
Well Id:		5506187		Lot:	012
Concessio	n:	10		Concession Name:	CON
County:		RENFREW		Municipality:	INDIAN RESERVE GOLDEN LAKE 39
Easting Na	ad83:	322629.6		Northing Nad83:	5048373
Zone:		18		Utm Reliability:	margin of error : 100 m - 300 m
Primary Wa	ater Use:	Domestic		Construction Date:	09-JUL-80
Sec. Water	r Use:			Well Depth:	4 ft
Pump Rate	ə:	100 GPM		Static Water Level:	8 ft
Flow Rate:				Clear/Cloudy:	CLEAR
Specific Ca	apacity:			Final Well Status:	Water Supply
Constructio	on Method:	Rotary (Air)		Flowing (y/n):	N
Elevation (m):	169.94		Elevation Reliability:	
Depth to B	edrock:			Overburden/Bedrock:	
water Type	e:	FRESH		Casing Material:	OPEN HOLE, STEEL
Details					
Thicknes	ss:	4 ft		Original Depth:	4 ft
Material	Colour:	BROWN		Material:	TOPSOIL
+					
Thicknes	ss:	133 ft		Original Depth:	137 ft
Material	Colour:	GREEN		Material:	LIMESTONE

Unplottable Summary

DB

Company Name/Site Name A

Address

Zip

City

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd 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 Ecolog 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.

AAGR Sept 2002* Provincial Abandoned Aggregate Inventory: The MAAP Program maintains a database of all abandoned pits and guarries. 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.*

Aggregate Inventory: Up to Aug 2012 Provincial AGR The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. Please note that the database is only referenced by lot\concession and city/town location. The database provides information regarding the registered owner/operator, location, status, licence type, and maximum tonnage.

Abandoned Mine Information System: 1800-Feb 2013 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.

1860s-Present Private ANDR Anderson's Waste Disposal Sites: 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 authoritive. The information was collected for research purposes only.

2001-Jun 2010 Private AUWR Automobile Wrecking & Supplies: This database provides an inventory of all 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.

Borehole:

1875-Aug 2011 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.

BORE

Provincial

<u>Certificates of Approval:</u> This database contains the following types of approvals: A Waste Management Systems and Renewable Energy App emissions to the atmosphere, discharges contaminants to stores, transports or disposes of waste, must have a Certif approval number, business name, address, approval date, updated, as CofA's have been replaced by either Environm Compliance Approval (ECA). Please refer to those individu	1985-Oct 30, 2011* ir & Noise, Industrial Sewage, Mu rovals. The MOE in Ontario state ground or surface water, provides icate of Approval before it can op approval type and status. This c nental Activity and Sector Registr ual databases for any information	Provincial unicipal & Private S s that any facility th s potable water sup perate lawfully. Fiel database will no lor y (EASR) or Enviro a after Oct.31, 2017	CA Sewage, hat releases oplies, or ds include nger be onmental 1.
<u>Commercial Fuel Oil Tanks:</u> Since May 2002, Ontario developed a new act where it be Technical Standards & Safety Authority (TSSA). This data Ontario with fields such as location, registration number, ta	1948-Apr 2013 came mandatory for fuel oil tanks would include all commercial un nk material, age of tank and tank	Provincial to be registered w derground fuel oil t size.	CFOT vith tanks in
<u>Chemical Register:</u> This database includes information from both a one time st facilities that manufacture or distribute chemicals. The pro chemical reactions and/or chemical separation processes	1992, 1999-Jun 2010 ady conducted in 1992 and priva duction of these chemical substa (i.e. fractionation, solvent extracti	Private te source and is a nces may involve o on, crystallization,	CHEM listing of one or more etc.).
Inventory of Coal Gasification Plants and Coal Tar Sites: This inventory includes both the "Inventory of Coal Gasifica of Industrial Sites Producing or Using Coal Tar and Related identifies industrial sites that produced and continue to pro- is available and includes: facility type, size, land use, inform operators/occupants, site description, potential environment inventory.*	Apr 1987 and Nov 1988* ation Plant Waste Sites in Ontario d Tars in Ontario-November 1988 duce or use coal tar and other re nation on adjoining properties, so ntal impacts and historic maps av	Provincial o-April 1987" and th 3) collected by the lated tars. Detailed oil condition, site ailable. This was a	COAL ne Inventory MOE. It I information a one-time
<u>Compliance and Convictions:</u> This database summarizes the fines and convictions hander and individuals named here have been found guilty of envi	1989-Jun 2013 ed down by the Ontario courts be ronmental offenses in Ontario co	Provincial ginning in 1989. C urts of law.	<u>CONV</u> Companies
<u>Certificates of Property Use:</u> This is a subset taken from Ontario's Environmental Regist such as (EPA s. 168.6) - Certificate of Property Use.	1994-Jul 2013 try (EBR) database. It will include	Provincial e all CPU's on the	CPU registry
Drill Hole Database: The Ontario Drill Hole Database contains information on m drill holes from assessment files on record with the departm available for southern Ontario, as it was the last area to be submitted to the Ministry were converted in the Assessmen degree of accuracy (coordinates) as to the exact location of to the MNDM. Levels of accuracy used to locate holes are 1:50,000 map; a detailed company map; or from submitted	1886-Jun 2013 ore than 113,000 percussion, over nent of Mines and Minerals. Pleat completed. The database was on the File Research Image Database of drill holes is dependent upon the e: centering on the mining claim; a "Report of Work".	Provincial erburden, sonic an ase note that limite created when surve e (AFRI) project. H e source document a sketch of the mir	DRL d diamond d data is eys lowever, the at submitted hing claim; a

Environmental Activity and Sector Registry: Oct 31 2011-Jul 2013 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.

<u>Environmental Registry:</u> The Environmental Registry lists proposals, decisions and that could significantly affect the environment. Through the upcoming proposals and invite their comments. For examp certificate of approval to release substances into the air or Approval for discharge into the natural environment other to OWRA s. 53(1), and EPA s. 27 - Approval for a waste disp (PTTW), Certificate of Property Use (CPU) and (ORD) Ord	1994-Jul 2013 exceptions regarding policies, A Registry, thirteen provincial mir ble, if a local business is requesti water; these are notified on the han water (i.e. Air) - EPA s. 9, A osal site. For information regard lers please refer to those individu	Provincial cts, instruments, or istries notify the pu ng a permit, license registry. Data inclue pproval for sewage ding Permit to Take ual databases.	EBR regulations blic of e, or des: works - Water
Environmental Compliance Approval: On October 31, 2011, a smarter, faster environmental app business had to apply for multiple approvals (known as cer equipment. Today, a business either registers itself, or app conducts. Businesses whose activities aren't subject to the business's emissions, discharges and wastes. Separate ap database will also include Renewable Energy Approvals. F database. For all Waste Disposal Sites please refer to the	Oct 31, 2011-Jul 2013 rovals system came into effect ir rtificates of approval) for individu blies for a single approval, depen e EASR may apply for an ECA. A pprovals for air, noise and waste for CofA's prior to Nov 1st, 2011 WDS database.	Provincial Ontario. In the pase al processes and p ding on the types of single ECA addres are no longer requ , please refer to the	ECA st, a ieces of of activities it sses all of a ired. This e CA
Environmental Effects Monitoring: The Environmental Effects Monitoring program assesses to fish habitat and human usage of fisheries resources. Since EEM studies under the Pulp and Paper Effluent Regulation geographical location and sub-lethal toxicity data.	1992-2007* he effects of effluent from indust e 1992, pulp and paper mills hav ns. This database provides infor	Federal rial or other sources ve been required to mation on the mill r	EEM s on fish, conduct name,
ERIS Historical Searches: EcoLog ERIS has compiled a database of all environmenta this database include: site location, date of report, type of a database can be referenced on both the map and "Statistic	1999-Mar 2013 al risk reports completed since M report, and search radius. As per cal Profile" page.	Private Iarch 1999. Availat r all other database	EHS ole fields for s, the ERIS
Environmental Issues Inventory System: The Environmental Issues Inventory System was developed Remediation Plan. This plan was established to determine First Nation reserves, and where necessary, to remediate future environmental problems. The EIIS provides information name of site, environmental issue, site action (Remediation	1992-2001* ed through the implementation of the location and severity of con those that posed a risk to health tion on the reserve under invest n, Site Assessment), and date in	Federal the Environmental taminated sites on and safety; and to igation, inventory n vestigation comple	EIIS Issues and inhabited prevent umber, ted.

List of TSSA Expired Facilities:Current to May 2013ProvincialEXPThis is a list of all expired facilities that fall under the TSSA (TSSA Act & Safety Regulations), including the six regulationsthat exist under the Fuels Safety Division. It will include facilities such as private fuel outlets, bulk plants, fuel oil tanks,gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc.These tanks have been removedand automatically fall under the expired facilities inventory held by TSSA.

Federal Convictions:1988-Jun 2007*FederalFCONEnvironment 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.Information is provided on the company

1950-Aug 2003*

Federal IAFT

fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline,

Ontario Regulation 347 Waste Generators Summary: 1986-Jul 2013 Provincial 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,

Fuel Storage Tank - Historic: Pre-Jan 2010* Provincial **FSTH** 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.

2010-May 2013 Provincial FST date, tank type, tank capacity, fuel type, installation year and facility type.

owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

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.

June 2000-Jan 2013

The Federal Contaminated Sites Inventory includes information on all known federal contaminated sites under the

Fisheries & Oceans Fuel Tanks: 1964-Sept 2003 Federal FOFT Fisheries & Oceans Canada maintains an inventory of all aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank

Fuel Storage Tank: 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

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. 2006-June 2009 Provincial HINC TSSA Historic Incidents: 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

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.

Indian & Northern Affairs Fuel Tanks:

Contaminated Sites on Federal Land:

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of all 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.

FCS

GEN

Federal

TSSA Incidents: TSSA's Fuels Safety Program administers the Technical S services associated with the safe transportation, storage, H natural gas and hydrogen. Under this Act, TSSA regulates contractors and equipment or appliances that use fuels. In and explosions. This database will include spills and leaks hydrogen recorded by the TSSA.	June 2009-Apr 2013 tandards & Safety Act 2000, pro nandling and use of fuels such a fuel suppliers, storage facilities cludes incidents from fuel-relate from diesel, fuel oil, gasoline, n	Provincial oviding fuel-related s is gasoline, diesel, p , transport trucks, pi ed hazards such as s atural gas, propane	INC safety propane, pelines, spills, fires and
Landfill Inventory Management Ontario: The Landfill Inventory Management Ontario (LIMO) database updated information. The inventory will include small and operators of the larger landfills complete a landfill data coll the following information from the previous operating year. amount of total waste received, landfill capacity, estimated reporting and monitoring details, size of location, service a contaminant attenuation zone and more. The small landfills certificate of approval # and status.	2012 use is updated every year, as the arge landfills. Additionally, each ection form that will be used to u This will include additional infor total remaining landfill capacity rea, approved waste types, leac s will include information such a	Provincial e ministry compiles in year the ministry w update LIMO and wi mation such as estin , fill rates, engineering thate of site treatments s site owner, site loc	LIMO new and ill request Il include mated ng designs, nt, cation and
Canadian Mine Locations: This information is collected from the Canadian & America that provides over 290 listings on mines (listed as public co rocks. Listed are mines that are currently in operation, clo projects). Their locations are provided as geographic coo pertaining to Canadian smelters and refineries has been a	1998-2009 n Mines Handbook. The Mines ompanies) dealing primarily with sed, suspended, or are still bein rdinates (x, y and/or longitude, I ppended to this database.	Private database is a nation precious metals an g developed (advan atitude). As of 2002	MINE nal database d hard iced 2, data
<u>Mineral Occurrences:</u> In the early 70's, the Ministry of Northern Development and occurrences in Ontario, in regard to metallic and industrial aggregate deposits. Please note that the "Horizontal Positi elements for each record were derived from field sketches	1846-Apr 2013 d Mines created an inventory of minerals, as well as some inforu- tional Accuracy" is approximatel using pace or chain/tape measure	Provincial approximately 19,00 mation on building si y +/- 200 m. Many i urements against cli	MNR 00 mineral tones and reference aim 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 planimetric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

<u>National Analysis of Trends in Emergencies System</u> 1974-1994* Federal <u>NATE</u> (<u>NATES):</u>

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.

Non-Compliance Reports:1992(water only), 1994-2010ProvincialNCPLThe Ministry of the Environment provides information about non-compliant discharges of contaminants to air and waterthat exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failuremay be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

National Defence & Canadian Forces Fuel Tanks: Up to May 2001* Federal NDFT The Department of National Defence 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.

National Defence & Canadian Forces Spills: Mar 1999-Aug 2010 Federal NDSP The Department of National Defence 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.

National Defence & Canadian Forces Waste Disposal 2001-Apr 2007* Federal NDWD Sites:

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.

National Environmental Emergencies System 1974-2003* Federal NEES (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 all 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.

National PCB Inventory: 1988-2008* Federal NPCB Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. All federal out-of-service PCB containing equipment and all 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.

National Pollutant Release Inventory:

1993-2011 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.

Oil and Gas Wells:

1988-Jun 2013 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.

Ontario Oil and Gas Wells: In 1998, the MNR handed over to the Ontario Oil, Gas and database of oil and gas wells drilled in Ontario. The OGSR available for all wells in the ERIS database include well own no., status, depth and the primary target (rock unit) of the w plus all water table information is also provide for each well	1800-Jul 2013 Salt Resources Corporation, the Library has over 20,000+ wells ner/operator, location, permit isso vell being drilled. All geology/stra record.	Provincial responsibility of ma in their database. In ue date, well cap da atigraphy table infor	OOGW aintaining a nformation ate, licence mation,		
Inventory of PCB Storage Sites: The Ontario Ministry of Environment, Waste Management F province. Ontario Regulation 11/82 (Waste Management - under the Ontario EPA requires the registration of inactive with the Ontario Ministry of Environment. This database co sites storing liquid or solid waste; and 3) a waste storage in	1987-Oct 2004 Branch, maintains an inventory o PCB) and Regulation 347 (Gene PCB storage equipment and/or c ontains information on: 1) waste ventory.	Provincial f PCB storage sites erator Waste Manag lisposal sites of PC quantities; 2) major	OPCB within the gement) B waste and minor		
<u>Orders:</u> 1994-Jul 2013 Provincial <u>ORD</u> 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.					
Canadian Pulp and Paper:	1999, 2002, 2004, 2005, 2009	Private	<u>PAP</u>		
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.					
Parks Canada Fuel Storage Tanks: Canadian Heritage maintains an inventory of all known fuel Parks and at National Historic Sites. The database details capacity, fuel type, facility type, tank design and owner/ope	1920-Jan 2005* storage tanks operated by Park information on site name, locatic rator.	Federal s Canada, in both N on, tank install/remo	PCFT National Ival date,		
Pesticide Register: The Ontario Ministry of Environment maintains a database	1988-Jun 2013 of all manufacturers and vendors	Provincial s of registered pest	PES icides.		
TSSA Pipeline Incidents: TSSA's Fuels Safety Program administers the Technical St services associated with the safe transportation, storage, h natural gas and hydrogen. Under this Act, TSSA regulates contractors and equipment or appliances that use fuels. Th by the TSSA.	June 2009-Mar 2012 andards & Safety Act 2000, prov andling and use of fuels such as fuel suppliers, storage facilities, f is database will include spills, str	Provincial viding fuel-related s gasoline, diesel, pr transport trucks, pip ike and leaks from	PINC afety ropane, pelines, recorded		
Private and Retail Fuel Storage Tanks: The Fuels Safety Branch of the Ontario Ministry of Consum registered private fuel storage tanks and licensed retail fuel have gasoline, oil, waste oil, natural gas and/or propane sto this information. This information is now collected by the T	1989-1996* her and Commercial Relations ma outlets. This database includes prage tanks on their property. Th echnical Standards and Safety A	Provincial aintained a databas an inventory of loca ne MCCR no longer Authority (TSSA).	PRT se of all ations that collects		
- · · · - · · · · ·					

Permit to Take Water:1994-Jul 2013ProvincialPTTWThis is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registrysuch as OWRA s. 34 - Permit to take water.

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.

Record of Site Condition:

1997-Sept 2001, Oct 2004- Provincial <u>RSC</u> Jun 2013

Provincial

REC

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).

<u>Retail Fuel Storage Tanks:</u> 1999-Jun 2010 Private <u>RST</u> 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.

Scott's Manufacturing Directory:1992-Mar 2011PrivateSCTScott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even thoughScott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Informationconcerning a company's address, plant size, and main products are included in this database.

Ontario Spills:1988-Jun 2013ProvincialSPLThis 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.

Wastewater Discharger Registration Database:1990-2011ProvincialSRDSInformation under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy forAbatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxicpollutants 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 collectedand stored within the Sample Result Data Store (SRDS).

Anderson's Storage Tanks:1915-1953*PrivateTANKThe 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.

Transport Canada Fuel Storage Tanks:1970-Mar 2007FederalTCFTWith the provinces of BC, MB, NB, NF, ON, PE, and QC; Transport Canada currently owns and operates 90 fuel storagetanks. Our inventory provides information on the site name, location, tank age, capacity and fuel type.TCFT

The TSSA, Under the Liquid Fuels Handling Code and the Fuel Oil Code, all underground storage tanks must be removed within two years of disuse. If removal of a tank is not feasible, you may apply to seek a variance from this code requirement. This is a list of all variances granted for abandoned tanks.

Waste Disposal Sites - MOE CA Inventory:1970-Jul 2013ProvincialWDSThe 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.

Waste Disposal Sites - MOE 1991 Historical Approval Up to Oct 1990* Provincial WDSH Inventory: Inventory: Inventory: Inventory Inventory</td

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 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.

Water Well Information System:1955-May 2013ProvincialWWISThis database describes locations and characteristics of water wells found within Ontario in accordance with Regulation903. 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.

VAR

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.'

<u>Unplottables</u>: 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 were included as reference.



Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on the completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data		For Ministry Use Only				
	•		FOI Request No.	FOI Co-ordinator Review date		
Christine Braham						
			Date Request Received	Fee Paid		
Stantec Consulting L	.td.		Date request received	100144		
1331 Clyde Avenue,	Suite 400					
Ottawa, Ontario K2	C 3G4		Response Due Date	ACCT-CHQ-VISA-MC-		
E 1411			response Due Due	CASH		
Email Address christine.b	raham@stantec.com					
Telephone/Fax Nos.	Your Project/Reference No.	Signature of Requester				
Tal · 613 738 6050	122510937 300	Christing Brohom				
$E_{\text{ex}} = 612 - 722 - 2700$	Isson Nagasawa	Chi istile Di aliani	\square SAC \square IEB \square EA	$AA \sqcup EMR \sqcup SWA$		
rax. 015-722-2799	Jason Nagasawa					
Request Parameters						
Municipal Address / Lot, Conce	ession, Geographic Township (Municipal address es	ssential for cities, towns or regions)				
(Formerly #39, as de	scribed in the approved CLSR Plar	#52200)				
Present Property Owner(s) and	Date(s) of Ownership					
Government of Cana	da. Aboriginal Affairs & Northern	Development Canada				
Previous Property Owner(s) and	d Date(s) of Ownership	Development Canada				
Present/Previous Tenant(s),(if a	pplicable)					
Search Pa	romotors			Specify Vear(s) Requested		
Files older than 2 years may require \$60.00 retrieval cost				Specify Tear(s) Requested		
There is no guarantee that records responsive to your request will be located						
Environmental conce	A11					
Orders						
Snills						
Investigations/prosecutions A Quener/tenant information must be provided						
Investigations/prosec	All					
Waste Generator number/classes All						
Certificates of Approval > Proponent information must be provided						
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be						
searched. Specify Certificates of Approval number (s) (if known). If supporting documents are also required, mark SD box and specify type						
e.g. maps, plans, nyd	rogeological reports, etc.		Г			
· · ·				SD Specify Year(s) Requested		
air - emissions						
water - mains, treatment, ground level, standpipes & elevated storage,						
pumping stations (local & booster)						
sewage - sanitary, storm, treatment, stormwater, leachate & leachate						
treatment & sewage pump stations						
waste water - industrial discharge						
waste sites - disposal	All					
incinerator sites						
waste systems	- haulers: sewage, non-hazardoi	ıs & hazardous waste		All		
	- mobile waste processing units			All		
- PCB destruction			All			
pesticides - licenses						

A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.