

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared For:
Nolettco Holdings Ltd.

Property Description:
*4011/15-38th Street and 4016-35th Street
Lots 29 & 30, Block 12, Plan 9520007
and Lot 26, Block 12, Plan 2285TR
Whitecourt, AB*

Project Number:
110-1939-2



Prepared By:

Rev.	Date	Description
C	17-Sept-19	Issued for Client Use
B	17-Sept-19	Issued for Client Review
A	16-Sept-19	Issued for Internal Review



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1. EXECUTIVE SUMMARY

Bolson Engineering and Environmental Services was retained by Mr. Norm Nolette of Noletteco Holdings Ltd. to complete a Phase I Environmental Site Assessment (ESA) of the property located at 4011/15-38th Street and 4016-35th Street (Lots 29 & 30, Block 12, Plan 9520007 and Lot 26, Block 12, Plan 2285TR) in Whitecourt, AB. The total area of the site is approximately 1.90 Acres in size and there is a single garage and gravel storage yard on the property. At the time of the review the property was vacant.

Information from historical land titles, air photo reviews, on-site inspections, inspections of neighboring properties and hydrogeological conditions were supplemented with searches for Environmental Protection Orders, Water Well Searches, and a PTMAA Search to complete this Phase I Environmental Site Assessment.

Upon review of the available information and a site review, it was deemed that the property does not pose any significant environmental liabilities at this time. Bolson Engineering had access to the entire property and there were no indications that further environmental investigation is required. A Phase II ESA is not recommended at this time.

The opinions outlined in this report are solely those of Bolson Engineering and Environmental Services and do not necessarily reflect the viewpoint of the Client (Noletteco Holdings Ltd.). This report is written for the benefit and use of the Client and his/her financial institution(s). All information is valid to the date of the report and limited by the information that was shared by the 3rd parties involved. While every effort is made to confirm that the data collected is factual, complete, and accurate; Bolson Engineering and Environmental Services make no guarantees or warranties whatsoever with respect to such data.

2. INTRODUCTION

Noletteco Holdings Ltd. has engaged Bolson Engineering and Environmental Services to perform a Phase I Environmental Site Assessment of the property located at 4011/15-38th Street and 4016-35th Street (Lots 29 & 30, Block 12, Plan 9520007 and Lot 26, Block 12, Plan 2285TR) in Whitecourt, AB, hereby known as “the subject property” in this report. A site reconnaissance took place on September 5th, 2019 and the findings of this assessment and reconnaissance are enclosed.

2.1 Purpose and Scope of Services

The purpose of this Phase I ESA is to reduce environmental risk/liability by identifying sources or potential sources of contamination within the subject property. The scope of work of this ESA was in general accordance with CSA Standard Z768-01: Phase I Environmental Site Assessments. The methodologies described in this standard outline a recognized practice for conducting an ESA of a subject property in order to identify and document potential and recognized environmental conditions.

2.2 Assumptions, Exceptions and Limitations

While this report provides a summary of both potential and recognized environmental conditions as described above, the assessment is limited by the availability of information in relation to the site at the time this report was compiled. The conclusions and recommendations derived in this report are based in part on information provided by third parties with specific knowledge of the property.

However, the possibility exists that information relevant to the environmental condition of the site was not available or was not provided during the creation of this report. Also, it may be possible that unreported environmentally harmful activities, such as undocumented disposal of waste, may have taken place and would not be identified in this report, as no pertinent documentation for such activities would exist. In the event of either of these scenarios, Bolson Engineering and Environmental must be informed if any new information is made available so it can be determined if modifications to the conclusions and recommendations provided in this document are required.

In the interests of completing this report in a timely fashion suitable to the client, certain limitations exist and are generally the result of inaccessible areas, visual impairments due to weather and/or timing of 3rd party requests for information. Where such limitations were encountered, they are discussed in greater detail within the relevant sections throughout the report.

2.3 User Reliance

This report has been created for the sole use of Noletteco Holdings Ltd. Unless given written permission by Bolson Engineering and Environmental Services, reliance and use of the information provided in this report by others is strictly prohibited.

3. SITE DESCRIPTION

The subject property is located in an industrial park within the Town of Whitecourt. During the site assessment, the site was completely vacant except for an existing empty garage on the property. Access to the site is from 38th Street and the site basically just consists of a gravel fenced yard.

The topography of the site and surrounding area is fairly flat with drainage of the area overland to 38th Street and 41st Avenue.

The geology of the overall area consists primarily of sand and clay till deposits overlying the bedrock of the Wapiti Formation (Edmonton Geological Society, 1993). The soil itself falls into the Chernozemic Classification (Soil Classification of Canada, 2017) which is a black-colored soil containing a high percentage of humus (7-15%), phosphorus and ammonia. This soil is typical of the Prairie Regions. See Appendix B: *Soil Classification of Canada* for further information.

The near surface geology of the Whitecourt area is characterized by glacial deposits which include, but are not limited to, tills and lacustrine deposits that vary in thickness across the area. Intermixed with these glacial deposits are sands, silts, and gravels that may be of fluvial origin. Below the surficial deposits within the Whitecourt area is the Horseshoe Canyon Formation. The Horseshoe Canyon Formation is the lower part of the Edmonton Group. The Horseshoe Canyon consists of sandstone, siltstone and shale with interbedded coal seams.

With regards to the hydrogeological information of the area the subject property seems to have a downward direction of groundwater flow towards the southeast and would produce estimated yields of 15-25 gpm for well water as per information found in the Hydrogeological Map of the Whitecourt Area.

The average temperature for the area was found to be 14.2°C for the May-September period. The average total precipitation for this period is 328mm and the average annual total precipitation is 479mm (Citystats.ca, 2018).

A search was conducted using the Alberta Conservation Information Management System (Alberta Tourism, Parks and Recreation, 2019) to identify any sensitive or protected environmental areas. The search resulted in no findings of sensitive or protected environmental areas for this location or the neighboring areas. See Appendix C: *ACIMS Search Data* for further information.

4. SITE ASSESSMENT

Information from historical land titles, air photo reviews, on-site inspections, and inspections of neighboring properties was supplemented with searches for Environmental Protection Orders, Water Well Searches, PTMAA Search and an ESAR Search to complete this Phase 1 Environmental Site Assessment.

4.1 Site Visit Findings

A site visit was completed on September 5th, 2019 to inspect the subject property. Select photographs of the site visit can be found in Appendix A: *Maps/Sketches/Figures*. The findings of the site reconnaissance are outlined below:

- Above Ground Storage Tanks (AST's)
No above ground storage tanks were noted on the subject property and this was confirmed through research with the PTMAA database.
- Underground Storage Tanks (UST's)
During the site visit no underground storage tanks were noted on the subject property. This was confirmed through research of the PTMAA database.
- On-site Buildings and Structures
There is an existing garage structure on the property which is discussed in greater detail in Section 4.3.
- Discolored Soils/Stressed Vegetation
During the site visit no discolored soils or stressed vegetation was noted.
- Stained Surfaces
Some minor surficial staining was noted on the property, but nothing that would be considered a potential environmental concern.
- Drums and Other Containers
No drums or other containers were noted on the site during the inspection.
- Dumping or Fill
No dumping or fill material was noted on the subject property.
- Floor Drains
There are no floor drains present on the subject property.
- Odors
No strong, pungent or noxious odors were noted during the site visit. These observations are general in nature and do not reflect a formal odor assessment.

- PCB's
Polychlorinated Biphenyls (PCB's) were commonly used lubricants and coolants for electrical equipment, including transformers, from the 1930's until the 1970's. The use of PCB's was banned from use in electrical equipment installed after September 1, 1977 and in transformers installed after July 1, 1980. It is not necessary to remove any functioning PCB containing equipment from the site. If any electrical equipment is removed from the site, the manufacturing date should be determined prior to disposal. Any equipment determined to have been manufactured before 1977 should be assessed for the potential of containing PCB's. Equipment containing PCB's must be disposed of at a licensed facility.

There is no evidence of PCB's at the subject property.

- Pesticides
During the site visit, storage or use of pesticides was not observed at the subject property.
- Petroleum Products
No petroleum products were observed being stored at the subject site at the time of the review.
- Pits, Ponds or Lagoons
No pits, ponds or lagoons were noted on the subject property.
- Potable Water Supply
Water is available from the Town of Whitecourt mainline servicing but there are no serviced buildings on the site.
- Sewage Disposal System
Sewer service is supplied from the Town of Whitecourt mainline servicing but there are no serviced buildings on the site.
- Solid Waste
Solid waste is collected in bins and disposed of as required.
- Waste Air Emissions
There are no potential sources of waste air emissions other than typical vehicle exhaust release.
- Wastewater
Drainage on the subject property is overland to the adjacent main streets. There appears to be sufficient drainage on the property.
- Wells
Three water wells were noted in the vicinity of the property and are discussed in greater detail in Section 5.5.

- Urea Formaldehyde Insulation

Urea Formaldehyde Foam Insulation (UFFI) was commonly used during the 1970's in both residential and commercial buildings as a means to fill wall cavities for energy conservation. This practice was banned in Canada in 1980 due to the potential for formaldehyde emissions.

There is no evidence of UFFI's on the subject property.

- Chlorofluorocarbons

Chlorofluorocarbons (CFC's) are one of the more widely used and common ozone depleting substances. Typical examples of CFC's include coolants in refrigerators, freezers, air conditioners, and propellers in aerosol sprays.

There is no evidence of CFC releases present on the subject property.

- Radon Gas

Radon Gas is a by-product of the natural decay of radium. A significant amount of naturally occurring radon gas can come from specific types of geological formations.

There is no evidence of Radon Gas on the site.

- Asbestos Containing Materials

Asbestos Containing Materials (ACM's) were commonly used in construction for insulation, sound/fire proofing and in various other construction materials. The use of (ACM's) generally ceased voluntarily in the mid 1970's due to health concerns associated with it, but was not banned through legislation until the mid 1980's.

There is no evidence of ACM's on the subject property.

- Lead Based Materials

Lead in buildings is generally found in buildings in lead-based paint or lead solders the plumbing. During the mid 1970's the government reduced the allowable amount of lead to 0.5% by weight for interior paint and the use of lead solders was generally phased out in the mid 1980's.

There is no evidence of Lead Based Material's on the subject property.

4.2 Property

The subject site is located at 4011/15-38th Street and 4016-35th Street (Lots 29 & 30, Block 12, Plan 9520007 and Lot 26, Block 12, Plan 2285TR) in Whitecourt, AB. The total area of the site is approximately 1.90 Acres in size. The front of the property faces west to 38th Street. The site is fenced with accesses from both 38th Street and 41st Avenue, and the entirety of the property consists of gravel storage yard and parking, with a single garage structure.

4.3 On-Site Buildings and Structures

There is an existing garage on the property that appears to have been used for storage purposes. The structure is not serviced and there is no evidence of any potential environmental contamination with regards to the building.

4.4 Past Uses of the Site

It appears that prior to the development and construction of the property it was either empty or used as agricultural land.

5. RECORDS REVIEW

The following records were researched, and the findings noted below:

5.1 Development History and Land Title Search of the Property

A search of historical land titles was conducted for the subject property. Historical ownership of the site to 1964 is summarized in Table 5.1.1: Land Title Summary.

TABLE 5.1.1: LAND TITLE SURVEY SUMMARY

FROM	TO	OWNER
2007	PRESENT	NOLETTECO HOLDINGS LTD.
1998	2007	STORMEISTER HOLDINGS LTD.
1998	1998	KANA OILFIELD SERVICES LTD.
1997	1998	MAE J PRYMYCH
1995	1997	ARTHUR B PRIMEAU
1966	1995	NEW TOWN OF WHITECOURT

The subject property is currently owned by Noletteco Holdings Ltd. A copy of the current and recent historical titles is appended for reference in Appendix H: *Land Title Survey*. The historical ownership of the property indicates that mainly individuals and holdings companies have owned the property over the years. No previous owners that may pose an environmental concern were noted during the historical title certificate review.

5.2 Air Photo Review

An air photograph analysis was completed for the subject property with air photos from 1978 – 2018 being observed.

It appears the property was initially subdivided in or around 1995 and prior to this the site appears to have been used for agricultural purposes. From the aerial photograph review, no potential environmental concerns were identified.

5.3 Environmental Protection Orders

The Environmental Law Center was contacted and states that there has been no enforcement action issued under the Alberta Environmental Protection and Enhancement Act (EPEA) and its predecessor legislation the “Hazardous Chemicals Act”, “Agricultural Chemicals Act”, “Clean Water Act”, and “Clean Air Act” to 1971 and/or pursuant to the “Water Act” from 1999 onwards for the current property owner (Noletteco Holdings Ltd.). See Appendix E: *Environmental Protection Orders* for further information.

A request was made to the Alberta Environment and Water’s Freedom of Information and Protection of Privacy (FOIPP) Office both under the FOIPP Act and also for information routinely available under the Environmental Protection and Enhancement (EPEA) Legislation for any information related to any contamination within the subject property. A search of Alberta Environment and Sustainable Resource Development record holdings did not find any information pertinent to this request, although we were directed to follow up with the Environmental Site Assessment Repository which is discussed in greater detail in Section 5.7: ESAR Search.

5.4 PTMAA Search

A search of the Petroleum Tank Management Association of Alberta was conducted to check for the registration of any active or inactive tanks on the subject property. No records were found. See Appendix F: *PTMAA Search* for further information.

5.5 Water Well Survey

A review of the Water Well Drilling Report from the Government of Alberta listed three wells located in the vicinity of the subject property. The wells were drilled for domestic use and no oil or gas sources were found in the well logs. See Appendix D: *Water Well Survey* for a summary of the search results and water well logs.

5.6 ESAR Search

A search was completed of Alberta Environment’s Environmental Site Assessment Repository (ESAR) for scientific and technical information pertaining to the property and/or assessed sites within the vicinity of the subject property. No information was found.

5.7 Abadata Search

AbaData (from Abacus Datagraphics Ltd.) is an oil and gas mapping software tool that provides datasets from AER and AENV which includes well sites, pipelines, facility information, spill data and other data which is routinely updated.

The well site belongs to Taqa North and was abandoned in 1969. The pipeline also is operated by Taqa North and it was originally permitted in 2017 to transport natural gas. There were no records of any leaks or spills with regards to the pipeline and well site and the site review did not reveal any potential concerns of environmental contamination. The results of the AbaData Search are included in Appendix G: *AbaData Search*.

6. NEARBY PROPERTIES AND LAND USE

The subject property is located in an industrial area and is surrounded on all sides by the following:

South: Steve's Hotshot

East: Freelance Mechanic Ltd./36th Street

North: 41st Avenue

West: 38th Street

There is an Esso Bulk Station located southeast of the subject site, but it is far enough away and separated by 36th Street as to not be considered a risk to the property.

All of the neighbouring properties and roadways appear to be well maintained and functioning as intended. At this time, it does not appear that there is any risk of contamination from neighbouring sites to the subject property.

7. FINDINGS AND RECOMMENDATIONS

After completion of a thorough review of the subject property, the following conclusions and recommendations would appear to be warranted:

1. We observed no evidence of surface staining or contamination of the site area that would warrant further assessment and/or testing of the sub base soils at this property.
2. Based on the information made available at the time of this Phase 1 Environmental Site Assessment there is no evidence of environmental contamination in connection with the subject property and no further environmental investigation is required.

Overall there is no evidence of current environmental contamination in connection with the subject property based on the available information and the site review. No further investigation is recommended at this time.

8. STANDARD LIMITATIONS

This Phase 1 Environmental Site Assessment report has been prepared exclusively for Nolettec Holdings Ltd. and its agents. The purpose of this report is to provide the Client with an assessment of the potential for the presence of contamination of the property located at 4011/15-38th Street and 4016-35th Street (Lots 29 & 30, Block 12, Plan 9520007 and Lot 26, Block 12, Plan 2285TR) in Whitecourt, AB. This report is neither an endorsement nor a condemnation of the Site.

The findings and conclusions documented in this report have been prepared in a manner consistent with that level of care and skill normally exercised by qualified professionals currently practicing in the area of environmental assessment and are in accordance with the terms and conditions set forth in our written proposal of August 28th, 2019. No other warranty, expressed or implied, is made.

The findings presented in this report are based upon the conditions of the Site during the site review by Bolson Engineering personnel. As we conducted no subsurface explorations or testing on this site, a potential remains for the presence of unknown, unidentified, or unforeseen surface or subsurface contamination. Further evidence of such potential site contamination would require appropriate exploration and testing.

If new information is developed in future work (which may include excavations, boreholes, or other studies), Bolson should be contacted to re-evaluate the conclusions of this report, and to provide amendments as required.

No warranty, expressed or implied, is given concerning contamination at this site. Any use which a third party makes of this report, or reliance on or decisions to be based on it, are the responsibility of such third parties. Bolson will accept no damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

9. SITE ASSESSOR QUALIFICATIONS

Company Background:

- Founded in 2007
- Provides Municipal, Industrial and Commercial Engineering and Environmental Services for the North/Central Alberta Region
- Completed several ESA's in Edmonton and North Central Alberta Region
- \$2,000,000 Commercial General Liability Insurance
- \$1,000,000 Certificate of Professional Liability Errors & Omissions
- Phase I ESA's as per CSA Standard Z768-01
- Phase II ESA's as per CSA Standard Z769-00

Principal Engineers:

Trent Thompson, P. Eng.

Education:

Bachelor of Science from Department of Civil and Environmental Engineering; School of Mining and Petroleum Engineering, University of Alberta, 2002

Relevant Continuing Education:

Environmental Assessment and Remediation presented by Dr. Nasrat Hijazi (EPIC-Education)
Understanding Environmental Regulations presented by Dr. Stephen Lamming and Ms. Teresa Meadows (EPIC-Education)

Contact Information:

E-mail: tthompson@bolson.ca

Phone: 780-668-8571

10. REFERENCES

Agriculture and Agri-Food Canada – Soil Order Map of Canada, Accessed September 13th, 2019.
www.agr.gc.ca, 2017

Alberta Geological Map, Accessed September 13th, 2019.
http://www.ag.s.gov.ab.ca/publications/MAP/PDF/MAP_143.PDF

Alberta Geological Survey – Geology of the Yellowhead Corridor, Accessed September 13th, 2019.
http://www.ag.s.gov.ab.ca/publications/MAP/PDF/MAP_234.PDF

Alberta TPR – ACIMS Data Search, Accessed September 13th, 2019.
<http://tpr.alberta.ca/parks/heritageinfocentre/datarequests/default.aspx>

Citystats.ca – Whitecourt - Detail City Profile – Temperature and Precipitation Information
Accessed September 13th, 2019. <http://www.citystats.ca>

Google Maps – Whitecourt, Accessed September 13th, 2019.
<http://maps.google.com/>

Spin II Database. Alberta Registries, Accessed September 13th, 2019.
<https://alta.registries.gov.ab.ca/spinii/logon.aspx>

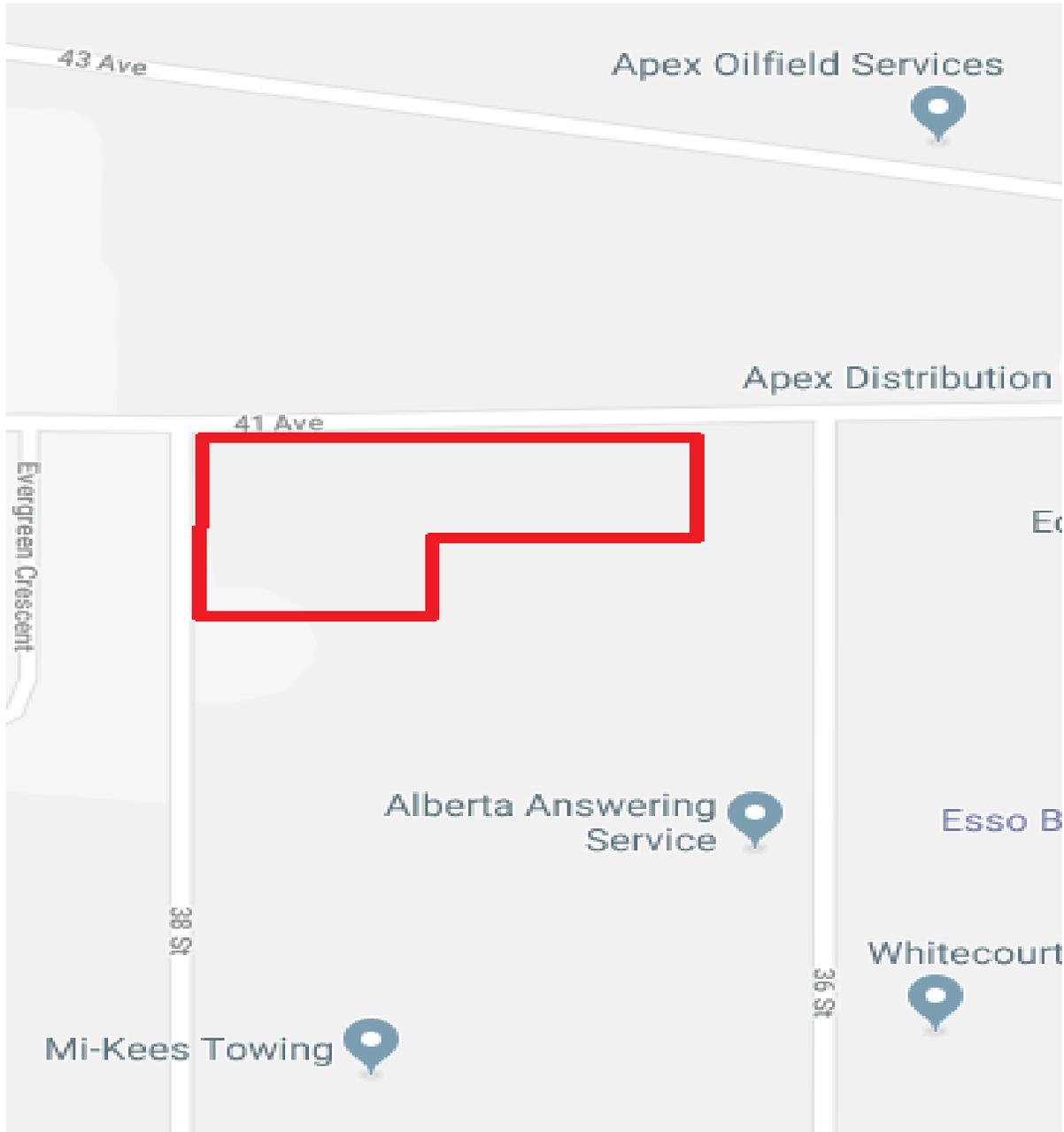
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APPENDIX A – *MAPS/SKETCHES/FIGURES*

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Client:
Noletteco Holdings Ltd.

Project No.
110-1939-2

Date:
2019-09-13

Title:
Phase I Environmental Site Assessment
4011/15-38th Street & 4016-35th Street
Whitecourt, AB
(Location Map)

Figure:
1

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ENVIRONMENTAL SERVICES

Client:
Nolettco Holdings Ltd.

Project No.
110-1939-2

Date:
2019-09-13

Title:
Phase I Environmental Site Assessment
4011/15-38th Street & 4016-35th Street
Whitecourt, AB
(2018 Aerial Photo)

Figure:
2



FIGURE 3: Gravel Storage Yard



FIGURE 4: Gravel Storage Yard



FIGURE 5: Gravel Storage Yard



FIGURE 6: Vacant Garage on Site



FIGURE 7: Sliding Gate to 41st Avenue



FIGURE 8: Gravel Storage Yard



FIGURE 9: Vacant Garage on Site



FIGURE 10: Gravel Storage Yard



Town of Whitecourt
Box 509
Whitecourt AB T7S 1N6

PROPERTY ASSESSMENT AND TAX NOTICE

TAX YEAR	2019
-----------------	-------------

A copy of this notice has been sent to:
Mortgagor:
Reference #:
Additional Owners:

Municipal:				4016-36 ST.	Roll Number
PLAN	BLOCK	LOT	AREA	004093	
2285TR	12	26			

Issued To:
NOLETTECO HOLDINGS LTD.
BOX 808
WHITECOURT AB T7S 1N8

TAX INSTALLMENT PAYMENT PROGRAM	
CURRENT INSTALLMENT AMOUNT:	\$0.00
To join the payment program contact the Town Office at 780-778-2273	

If you wish to make a complaint to the Assessment Review Board, see the reverse side of this notice for further details.
Final Date for Complaint Jul 23, 2019
Mailing Date: May 15, 2019
Total Levy: \$2,946.36
Amount Due on: Jun 28, 2019

ASSESSMENT DETAILS			Notice of Assessment Date: May 23, 2019		
DESCRIPTION	PREVIOUS ASSESSMENT	AMOUNT	DESCRIPTION	CURRENT ASSESSMENT	AMOUNT
Industrial Occupied		210,600	Industrial Occupied		210,000
		0			0
		0			0
		0			0
		0			0
		0			0
		0			0
TOTAL ASSESSMENT		210,600	TOTAL ASSESSMENT		210,000

School Support %

PUBLIC:	0.00%
SEPARATE:	0.00%
UNDECLARED:	100.00%
TOTAL:	100.00%

TAX ACCOUNT DETAILS

MUNICIPAL TAXES	TAX RATE	% OF TOTAL	TAX AMOUNT
General Municipal HM	9.6513	68.78	\$2,026.77

TOTAL MUNICIPAL TAXES: \$2,026.77

SENIORS REQUISITION COLLECTED ON BEHALF OF THE LAC STE. ANNE FOUNDATION			
Seniors Foundation	0.2239	1.59	\$47.02
TOTAL LAC STE. ANNE FOUNDATION TAXES			\$47.02

PROVINCIAL REQUISITIONS COLLECTED ON BEHALF OF THE PROVINCIAL GOVERNMENT MGAs 326 and 359.1-359.3			
School Foundation Non Res	4.1551	29.61	\$872.57

LOCAL IMPROVEMENTS		TOTAL PROVINCIAL EDUCATION TAXES	
BYLAW	EXPIRY DATE	LEVY AMOUNT	
TOTAL LOCAL IMPROVEMENT LEVY	\$0.00		

PENALTIES		LOCAL IMPROVEMENTS	
8% on current taxes outstanding July 1st			\$0.00
8% on current taxes outstanding Sept 1st		PROPERTY TAXES	\$2,946.36
16% on outstanding balances Jan 1st		CURRENT OUTSTANDING	\$0.00
		TOTAL TAXES PAYABLE	\$2,946.36



Town of Whitecourt
Box 509
Whitecourt AB T7S 1N6

TAX YEAR	ROLL NUMBER	CUSTOMER ID
2019	004093	NOLE004

LEGAL DESCRIPTION	DUE DATE	AMOUNT DUE
2285TR 12 26	Jun 28, 2019	\$2,946.36

NOLETTECO HOLDINGS LTD.
BOX 808
WHITECOURT AB T7S 1N8

AMOUNT PAID

Please make cheque payable to the "Town of Whitecourt". Return this remittance with your payment to the above municipal address. See reverse for further assessment and taxation information .

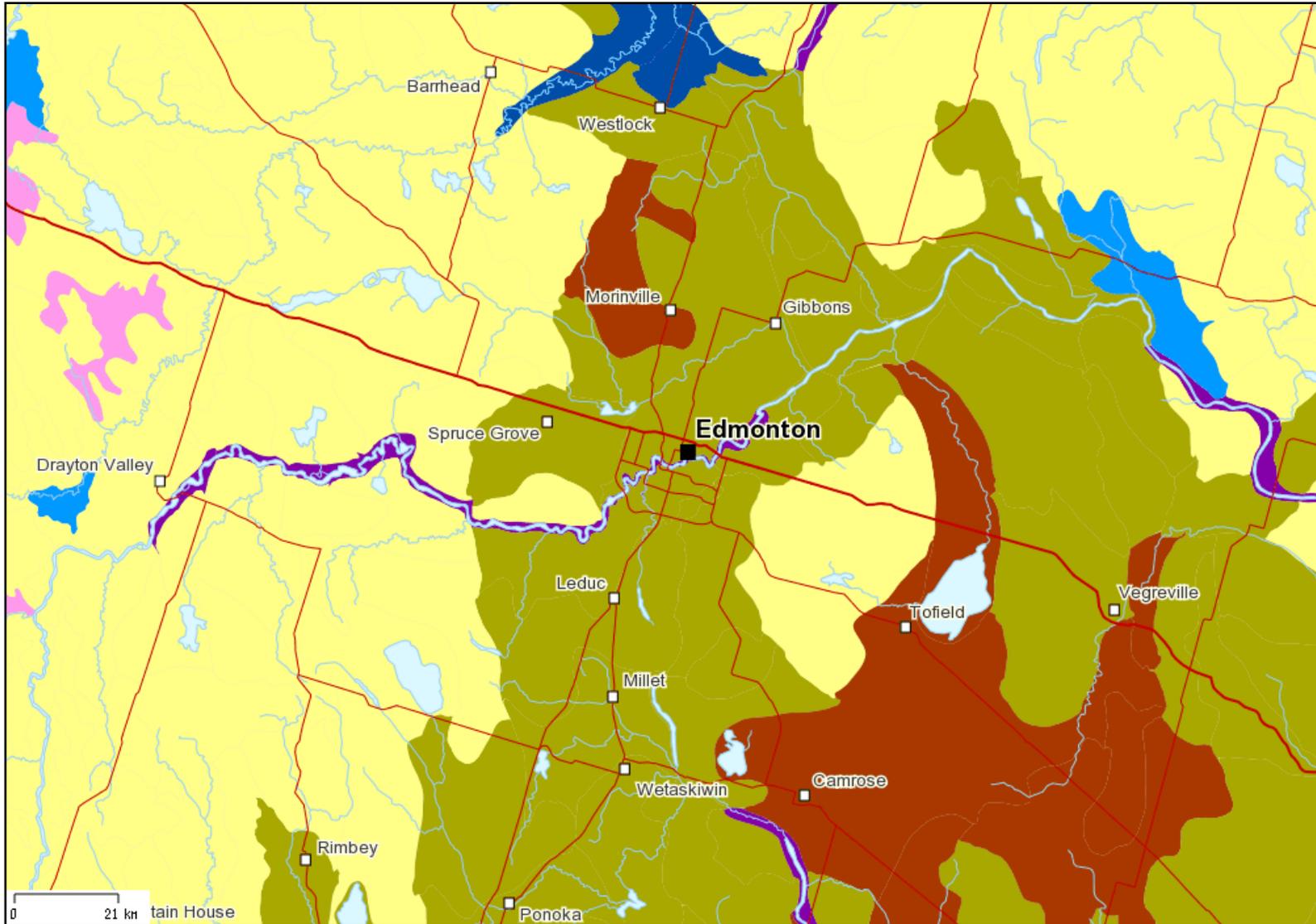
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APPENDIX B: *SOIL CLASSIFICATION OF CANADA*



Soil Order Map of Canada



Soil Order Map of Canada

- Brunisolic
- Chernozemic
- Cryosolic
- Gleysolic
- Luvisolic
- Organic
- Podzolic
- Regosolic
- Solonetzic
- Vertisolic
- Unclassified



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About

These national scale thematic maps display the distribution and areal extent of soil attributes such as drainage, texture of parent material, kind of material, and classification of soils in terms of Soil Order and Great Group. The relief and associated slopes of the Canadian landscape are depicted on the local surface form thematic map.

The majority of these maps were derived from Soil Landscapes of Canada information. For more information on the Soil Landscapes of Canada, please visit: <http://sis.agr.gc.ca/cansis/nsdb/slc/intro.html>.

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Data Sources and Acknowledgements

- © 2010 Agriculture and Agri-Food Canada. All rights reserved.
 - Soils Landscapes of Canada v2.2
 - Soils Landscapes of Canada v3.1
 - Soil Landscapes of Canada – Agricultural Extent v3.0
- Ecological Stratification Working Group. 1995. A National Ecological Framework for Canada. Report and national map at 1:7,500,000 scale. Ottawa: Agriculture and Agri-Food Canada, Research Branch, Centre for Land and Biological Resources Research; and Hull: Environment Canada, State of the Environment Directorate, Ecozone Analysis Branch.
- © 2007 Department of Natural Resources Canada. All rights reserved.
 - Atlas of Canada 1:1,000,000 National Frameworks Data
 - Administrative Boundaries
 - Roads
 - Rivers
 - Lakes
 - Islands
 - Populated Places
 - North American Atlas - Political Boundaries
- Bathymetric Data Reproduced from the GEBCO Digital Atlas published by the British Oceanographic Data Centre on behalf of IOC and IHO, 2003.

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APPENDIX C: ACIMS SEARCH DATA

Search ACIMS Data

Date: 5/9/2019

Requestor: Consultant

Reason for Request: Site Assessment

SEC: 25 **TWP:** 059 **RGE:** 12 **MER:** 5



■ Non-sensitive EOs: 0 (*Data Updated: October 2017*)

M-RR-TTT-SS	EO_ID	ECODE	S_RANK	SNAME	SCOMNAME	LAST_OBS_D
-------------	-------	-------	--------	-------	----------	------------

No Non-sensitive EOs Found: Next Steps - [See FAQ](#)

■ Sensitive EOs: 0 (*Data Updated: October 2017*)

M-RR-TTT	EO_ID	ECODE	S_RANK	SNAME	SCOMNAME	LAST_OBS_D
----------	-------	-------	--------	-------	----------	------------

No Sensitive EOs Found: Next Steps - [See FAQ](#)

■ Protected Areas: 0 (*Data Updated: October 2017*)

M-RR-TTT-SS	PROTECTED AREA NAME	TYPE	IUCN
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No Protected Areas Found

■ Crown Reservations/Notations: 0 (*Data Updated: October 2017*)

M-RR-TTT-SS	NAME	TYPE
-------------	------	------

No Crown Reservations/Notations Found

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX D: WATER WELL SURVEY



Reconnaissance Report

[View in Metric](#)

[Export to Excel](#)

Groundwater Wells

Please click the water Well ID to generate the Water Well Drilling Report.

GIC Well ID	LSD	SEC	TWP	RGE	M	DRILLING COMPANY	DATE COMPLETED	DEPTH (ft)	TYPE OF WORK	USE	CHM	LT	PT	WELL OWNER	STATIC LEVEL (ft)	TEST RATE (igpm)	SC_DIA (in)
393442	NE	25	59	12	5	ELK POINT DRILLING CORP.	1968-09-21	320.00	New Well	Unknown	1	16		ROBINSON, J.R.	168.80	13.00	4.60
393445	NE	25	59	12	5	UNKNOWN DRILLER		30.00	Chemistry	Domestic	1			DUFRESNE, D.	20.00		0.00
393446	NE	25	59	12	5	UNKNOWN DRILLER		23.00	Chemistry	Domestic	1			MORIN, VIC			0.00



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 393442
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name ROBINSON, J.R.		Address P.O. BOX 989 WHITECOURT			Town		Province		Country		Postal Code
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	NE	25	59	12	5						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
_____ ft from _____					Latitude <u>54.134112</u>		Longitude <u>-115.657774</u>		Elevation <u>2450.00</u> ft		
_____ ft from _____					How Location Obtained					How Elevation Obtained	
					Not Verified					Estimated	

Drilling Information	
Method of Drilling Unknown	Type of Work New Well
Proposed Well Use Unknown	

Formation Log			Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	
36.00		Gray Sand	
54.00		Gray Silty Clay	
118.00		Gray Clay	
121.00		Gray Sand	
157.00		Gray Till	
178.00		Gravel	
187.00		Sandstone	
201.00		Shale	
212.00		Sandstone	
213.00		Fractured Sandrock	
220.00		Sandstone	
231.00		Sandy Shale	
254.00		Sandstone & Shale Ledges	
260.00		Sandstone	
280.00		Sandstone & Coal	
320.00		Shale	

Yield Test Summary			Measurement in Imperial
Recommended Pump Rate <u>0.00</u> igpm			
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	
1968/09/21	13.00	168.80	

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
320.00 ft			1968/09/21	
Borehole				
Diameter (in)	From (ft)	To (ft)		
0.00	0.00	320.00		
Surface Casing (if applicable)		Well Casing/Liner		
Unknown				
Size OD : <u>4.60</u> in		Size OD : <u>0.00</u> in		
Wall Thickness : <u>0.000</u> in		Wall Thickness : <u>0.000</u> in		
Bottom at : <u>211.00</u> ft		Top at : <u>0.00</u> ft		
		Bottom at : <u>0.00</u> ft		
Perforations				
From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)
Perforated by _____				
Annular Seal				
Placed from <u>0.00</u> ft to <u>0.00</u> ft				
Amount _____				
Other Seals				
Type		At (ft)		
Screen Type				
Size OD : <u>0.00</u> in				
From (ft)	To (ft)	Slot Size (in)		
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
Pack				
Type _____		Grain Size _____		
Amount _____				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name ELK POINT DRILLING CORP.	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 393442
GoA Well Tag No.
Drilling Company Well ID
Date Report Received

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name ROBINSON, J.R.		Address P.O. BOX 989 WHITECOURT			Town		Province		Country		Postal Code
Location	<i>1/4 or LSD</i> NE	<i>SEC</i> 25	<i>TWP</i> 59	<i>RGE</i> 12	<i>W of MER</i> 5	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
Measured from Boundary of _____ ft from _____ _____ ft from _____				GPS Coordinates in Decimal Degrees (NAD 83) Latitude <u>54.134112</u> Longitude <u>-115.657774</u> How Location Obtained Not Verified				Elevation <u>2450.00</u> ft How Elevation Obtained Estimated			

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level _____ in					Is Artesian Flow _____						Is Flow Control Installed _____
Rate _____ igpm					Describe _____						
Recommended Pump Rate _____ 0.00 igpm					Pump Installed <u>Yes</u>		Depth _____ ft				
Recommended Pump Intake Depth (From TOC) _____ 208.00 ft					Type <u>SUB 230V</u>		Make <u>MYERS</u>		H.P. <u>1</u>		Model (Output Rating) _____
Did you Encounter Saline Water (>4000 ppm TDS) _____				Depth _____ ft		Well Disinfected Upon Completion _____					
Gas _____				Depth _____ ft		Geophysical Log Taken <u>Electric</u> Submitted to ESRD <u>Electric</u>					
Additional Comments on Well _____						Sample Collected for Potability _____		Submitted to ESRD <u>Yes</u>			

Yield Test				Taken From Ground Level	Measurement in Imperial
Test Date 1968/09/21	Start Time 12:00 AM	Static Water Level 168.80 ft		<i>Depth to water level</i>	
			Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)
Method of Water Removal					
Type <u>Pump</u>					
Removal Rate <u>13.00</u> igpm					
Depth Withdrawn From <u>208.00</u> ft					
If water removal period was < 2 hours, explain why _____					

Water Diverted for Drilling		
Water Source	Amount Taken ig	Diversion Date & Time

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name ELK POINT DRILLING CORP.	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 393445
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1975/06/23

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name DUFRESNE, D.		Address P.O. BOX 1658 WHITECOURT			Town		Province		Country		Postal Code
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	NE	25	59	12	5						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)							
_____ ft from _____				Latitude <u>54.134112</u> Longitude <u>-115.657774</u>				Elevation _____ ft			
_____ ft from _____				How Location Obtained				How Elevation Obtained			
				Not Verified				Not Obtained			

Drilling Information	
Method of Drilling Unknown	Type of Work Chemistry
Proposed Well Use Domestic	

Formation Log			Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	

Yield Test Summary			Measurement in Imperial
Recommended Pump Rate <u>0.00</u> igpm			
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	
1975/06/23		20.00	

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
30.00 ft				
Borehole				
Diameter (in)	From (ft)	To (ft)		
0.00	0.00	30.00		
Surface Casing (if applicable)		Well Casing/Liner		
Size OD : <u>0.00</u> in		Size OD : <u>0.00</u> in		
Wall Thickness : <u>0.000</u> in		Wall Thickness : <u>0.000</u> in		
Bottom at : <u>0.00</u> ft		Top at : <u>0.00</u> ft		
		Bottom at : <u>0.00</u> ft		
Perforations				
From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)
Perforated by _____				
Annular Seal				
Placed from <u>0.00</u> ft to <u>0.00</u> ft				
Amount _____				
Other Seals				
Type		At (ft)		
Screen Type				
Size OD : <u>0.00</u> in				
From (ft)	To (ft)	Slot Size (in)		
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
Pack				
Type _____		Grain Size _____		
Amount _____				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name UNKNOWN DRILLER	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 393445
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1975/06/23

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name DUFRESNE, D.		Address P.O. BOX 1658 WHITECOURT			Town		Province		Country		Postal Code
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	NE	25	59	12	5						
Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)							
_____ ft from _____				Latitude <u>54.134112</u> Longitude <u>-115.657774</u>				Elevation _____ ft			
_____ ft from _____				How Location Obtained				How Elevation Obtained			
				Not Verified				Not Obtained			

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level _____ in											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ igpm					Describe _____						
Recommended Pump Rate _____ 0.00 igpm					Pump Installed _____		Depth _____ ft				
Recommended Pump Intake Depth (From TOC) _____ 0.00 ft					Type _____		Make _____		H.P. _____		
Model (Output Rating) _____											
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ ft		Well Disinfected Upon Completion _____				
Gas _____					Depth _____ ft		Geophysical Log Taken _____				
Submitted to ESRD _____											
Additional Comments on Well _____					Sample Collected for Potability _____			Submitted to ESRD <u>Yes</u>			

Yield Test				Taken From Ground Level	Measurement in Imperial
Test Date	Start Time	Static Water Level		Depth to water level	
1975/06/23	12:00 AM	20.00 ft			
			Pumping (ft)	Elapsed Time	Recovery (ft)
				Minutes:Sec	
Method of Water Removal					
Type <u>Not Applicable</u>					
Removal Rate _____ igpm					
Depth Withdrawn From _____ 0.00 ft					
If water removal period was < 2 hours, explain why _____					

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	ig	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
UNKNOWN DRILLER	



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 393446
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1981/05/07

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

GOWN ID

Well Identification and Location										Measurement in Imperial		
Owner Name MORIN, VIC		Address P.O. BOX 554 WHITECOURT			Town		Province		Country		Postal Code	
Location												
1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description				
NE	25	59	12	5								
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)							
_____ ft from _____					Latitude <u>54.134112</u> Longitude <u>-115.657774</u>					Elevation _____ ft		
_____ ft from _____					How Location Obtained					How Elevation Obtained		
					Map					Estimated		

Drilling Information	
Method of Drilling Drilled	Type of Work Chemistry
Proposed Well Use Domestic	

Formation Log			Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	

Yield Test Summary			Measurement in Imperial
Recommended Pump Rate _____ igpm			
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
23.00 ft				
Borehole				
Diameter (in)	From (ft)	To (ft)		
0.00	0.00	23.00		
Surface Casing (if applicable)		Well Casing/Liner		
Size OD : _____ 0.00 in		Size OD : _____ 0.00 in		
Wall Thickness : _____ 0.000 in		Wall Thickness : _____ 0.000 in		
Bottom at : _____ 0.00 ft		Top at : _____ 0.00 ft		
		Bottom at : _____ 0.00 ft		
Perforations				
From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)
Perforated by _____				
Annular Seal				
Placed from _____ 0.00 ft to _____ 0.00 ft				
Amount _____				
Other Seals				
Type		At (ft)		
Screen Type				
Size OD : _____ 0.00 in				
From (ft)	To (ft)	Slot Size (in)		
Attachment _____				
Top Fittings _____		Bottom Fittings _____		
Pack				
Type _____		Grain Size _____		
Amount _____				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name UNKNOWN DRILLER	Copy of Well report provided to owner Date approval holder signed



Water Well Drilling Report

[View in Metric](#) [Export to Excel](#)

GIC Well ID 393446
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1981/05/07

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

Well Identification and Location										Measurement in Imperial	
Owner Name MORIN, VIC		Address P.O. BOX 554 WHITECOURT			Town		Province		Country		Postal Code
Location	<i>1/4 or LSD</i> NE	<i>SEC</i> 25	<i>TWP</i> 59	<i>RGE</i> 12	<i>W of MER</i> 5	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i>		
Measured from Boundary of _____ ft from _____ _____ ft from _____					GPS Coordinates in Decimal Degrees (NAD 83) Latitude <u>54.134112</u> Longitude <u>-115.657774</u> How Location Obtained _____ Map _____			Elevation _____ ft How Elevation Obtained _____ Estimated			

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level _____ in					Is Artesian Flow _____						Is Flow Control Installed _____
Rate _____		igpm			Describe _____						
Recommended Pump Rate _____			igpm		Pump Installed _____		Depth _____		ft		
Recommended Pump Intake Depth (From TOC) _____			ft		Type _____		Make _____		H.P. _____		
										Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____				Depth _____		ft		Well Disinfected Upon Completion _____			
Gas _____				Depth _____		ft		Geophysical Log Taken _____			
										Submitted to ESRD _____	
Additional Comments on Well _____						Sample Collected for Potability _____		Submitted to ESRD <u>Yes</u>			

Yield Test			Taken From Ground Level	Measurement in Imperial
Test Date _____	Start Time _____	Static Water Level _____		
		ft		
Method of Water Removal				
Type _____				
Removal Rate _____		igpm		
Depth Withdrawn From _____		ft		
If water removal period was < 2 hours, explain why _____				

Water Diverted for Drilling		
Water Source _____	Amount Taken _____	ig
Diversions Date & Time _____		

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name UNKNOWN DRILLER	Copy of Well report provided to owner Date approval holder signed

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX E: *ENVIRONMENTAL PROTECTION ORDERS*

ENVIRONMENTAL LAW CENTRE

#410, 10115 - 100A Street, Edmonton, AB T5J 2W2

Phone: (780) 424-5099 Fax: (780) 424-5133

Internet: www.elc.ab.ca E-Mail: elc@elc.ab.ca

September 5, 2019

Our File: 127285

Mr. Trent Thompson
Bolson Engineering
21707-80 Avenue
Edmonton, AB T5T 4S2

Dear Mr. Thompson:

RE: Search Requested - Nolettco Holdings Ltd.

In response to your request of September 5, 2019, we have searched the Environmental Enforcement Historical Search Service database for an exact match with respect to the above request, and can advise that as of today's date, there have been NO enforcement actions issued by Alberta Environment and Parks (AEP) pursuant to the Alberta "Environmental Protection and Enhancement Act" ("EPEA") and its predecessor legislation, the "Hazardous Chemicals Act", "Agricultural Chemicals Act", "Clean Water Act" and "Clean Air Act" to 1971, and/or pursuant to the "Water Act" from 1999 onwards.

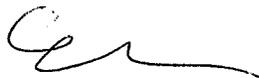
This search is limited to the following enforcement actions under EPEA and its predecessor legislation: Tickets, Prosecutions, Administrative Penalties, Warnings, Enforcement Orders, Enforcement Orders Concerning Waste, Environmental Protection Orders, Emergency Environmental Protection Orders, Emission Control Orders, Chemical Control Orders, Water Quality Control Orders and Stop Orders. This search is limited to the following enforcement actions under the Water Act: Prosecutions, Administrative Penalties, Water Management Orders, Warnings and Enforcement Orders. It does not include Clean Up Orders issued under the Litter Act or Environmental Protection Orders respecting unsightly property issued under EPEA; this information may be available from the local municipality.

Enforcement actions are entered in the database following: (1) the decision date, for prosecutions; (2) the date an administrative penalty was paid or due (30 days after issuance), whichever is sooner; and (3) the date the document was issued for all other enforcement actions.

These search results are based on information provided by AEP. AEP advises that they try to provide the best information possible. However, AEP advises that it cannot guarantee that the information provided is complete or accurate and that any person relying on these search results does so at their own risk. More information may be gained by referring to original enforcement documents. Alberta Energy Regulator (AER) enforcement actions are not included (see the AER Public Compliance dashboard database).

Copies of orders are available from the Environmental Law Centre. Any other enforcement information may be available directly from Alberta Environment.

Yours sincerely,

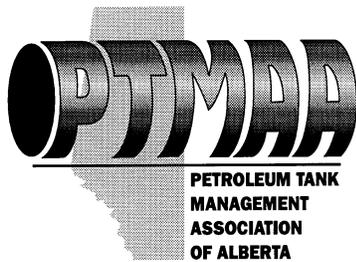


Cindy Dewing
Enforcement Search Service
Encl.

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX F: *PTMAA SEARCH*



Petroleum Tank Management
Association of Alberta

Suite 980, 10303 Jasper Avenue
Edmonton, Alberta T5J 3N6
PH: (780)425-8265 or 1-866-222-8265
FAX: (780)425-4722

September 11, 2019

Trent Thompson
Bolson Engineering
21707 80 Avenue
Edmonton, AB
T5T 4S2

Dear Trent Thompson:

As per your request, the PTMAA has checked the registration of active tank sites and inventory of abandoned tank sites and there are no records for the property with the legal land description:

4011 - 38 Street, Whitecourt
Plan 9520007, Block 12, Lots 26, 29 & 30

Please note that both databases are not complete. The main limitation of these databases is that they only include information reported through registration or a survey of abandoned sites completed in 1992 and should not be considered as a comprehensive inventory of all past or present storage tank sites. The PTMAA **cannot** guarantee that tanks do not or have not existed at this location. Information in the databases is based on information supplied by the owner and the PTMAA cannot guarantee its accuracy. Information on storage tanks or on past or present contaminant investigations may be filed with the local Fire Department or Alberta Environment.

Yours truly,

Tennie Jacobsen
PTMAA

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX G: ABADATA SEARCH



Save Map

Switch | Load Maps (3) ▼

Find DLS | NTS | Coordinates

Section	Township	Range	Meridian	Zoom Options
25	59	12	5	Default

Timeout in
00:27

- Tools
- Select
- Pan
- Measure
- Zoom In
- Zoom Out
- Zoom To
- Find Nearest
- Get Directions Road Map
- Print Coords
- Location Select
- Objects
- Custom Lists





Pipeline Information

TAQA NORTH LTD. | 51582 - 1

AER Pipeline Data Current to August 7, 2019

Permit Date:	September 26, 2017	License Date:	
From Location:	11-25-59-12 W5M BE	To Location:	16-25-59-12 W5M BE
Length:	1.24 kms 0.78 mi	Status:	A
Substance:	NG	H₂S:	8 mol/kmol 8000 ppm
Outside Diameter:	88.9 mm 3.5 "	Wall Thickness:	4.78 mm 0.19 "
Material:	S	Type:	5L
Grade:	B	Max Operating Pressure:	0 kPa 0 psi
Joints:	W	Internal Coating:	U
Stress Level:	0 %	Environment:	
Original Permit Date:		Construction Date:	
Original License/Line No:	0 - 0	NEB Registration:	
Abacus No:	N/A		



Well Information

100 / 11-25-059-12 W5 / 0

TAQA NORTH LTD. | 100 / 11-25-059-12 W5 / 0

Government Well Data Current To July 31, 2019

License #:	0035546	License Date:	December 31, 1968
Well Name:	IONIC UNIT 1 WHITECOURT 11-25-59-12		
License Status:	Issued	License Status Date:	December 31, 1968
Within:	11-25-059-12 W5M	H2S (%):	0.500
Spud Date:	January 9, 1969	Final Drill Date:	January 20, 1969
Status:	GAS SUSP	Abandoned Date:	
Surface:		Downhole:	
Offsets:	S 474 E 495.9	Offsets:	S 474 E 495.9
Latitude:	54.133465	Latitude:	54.133465
Longitude:	-115.668862	Longitude:	-115.668862
Ground Elevation:	723.6 m 2374 '	Total Depth:	1661.20 m 5450 '
Operator:	TAQA NORTH LTD.		

BOLSON

ENGINEERING
AND
ENVIRONMENTAL SERVICES

APPENDIX H: *LAND TITLE SURVEY*



LAND TITLE CERTIFICATE

S
LINC SHORT LEGAL TITLE NUMBER
0026 285 602 9520007;12;29 072 521 174 +2

LEGAL DESCRIPTION
PLAN 9520007
BLOCK 12
LOT 29
EXCEPTING THEREOUT ALL MINES AND MINERALS
AREA: 0.373 HECTARES (0.92 ACRES) MORE OR LESS

ESTATE: FEE SIMPLE
ATS REFERENCE: 5;12;59;25;SE

MUNICIPALITY: TOWN OF WHITECOURT

REFERENCE NUMBER: 982 171 717

REGISTERED OWNER(S)					
REGISTRATION	DATE (DMY)	DOCUMENT	TYPE	VALUE	CONSIDERATION
072 521 174	29/08/2007	TRANSFER OF LAND			SEE INSTRUMENT

OWNERS

NOLETTECO HOLDINGS LTD.
OF BOX 1017
WHITECOURT
ALBERTA T7S 1N9

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION	DATE (D/M/Y)	PARTICULARS
NUMBER		
072 521 175	29/08/2007	MORTGAGE MORTGAGEE - STORMEISTER HOLDINGS LTD. BOX 1017 WHITECOURT ALBERTA T7S1N9 ORIGINAL PRINCIPAL AMOUNT: \$704,000
182 175 542	19/07/2018	CAVEAT

REGISTRATION

NUMBER DATE (D/M/Y) PARTICULARS

RE : LEASE INTEREST
CAVEATOR - KANA OILFIELD SERVICES LTD.
C/O SNYDER & ASSOCIATES LLP
25 FLR, 10123 99 STREET
EDMONTON
ALBERTA T5J3H1
AGENT - RUSSELL A FLINT

TOTAL INSTRUMENTS: 002

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN
ACCURATE REPRODUCTION OF THE CERTIFICATE OF
TITLE REPRESENTED HEREIN THIS 11 DAY OF
SEPTEMBER, 2019 AT 11:11 A.M.

ORDER NUMBER: 37983625

CUSTOMER FILE NUMBER:



END OF CERTIFICATE

THIS ELECTRONICALLY TRANSMITTED LAND TITLES PRODUCT IS INTENDED
FOR THE SOLE USE OF THE ORIGINAL PURCHASER, AND NONE OTHER,
SUBJECT TO WHAT IS SET OUT IN THE PARAGRAPH BELOW.

THE ABOVE PROVISIONS DO NOT PROHIBIT THE ORIGINAL PURCHASER FROM
INCLUDING THIS UNMODIFIED PRODUCT IN ANY REPORT, OPINION,
APPRAISAL OR OTHER ADVICE PREPARED BY THE ORIGINAL PURCHASER AS
PART OF THE ORIGINAL PURCHASER APPLYING PROFESSIONAL, CONSULTING
OR TECHNICAL EXPERTISE FOR THE BENEFIT OF CLIENT(S).



HISTORICAL LAND TITLE CERTIFICATE
TITLE CANCELLED ON AUGUST 29, 2007

S
LINC SHORT LEGAL TITLE NUMBER
0026 285 602 9520007;12;29 982 171 717

LEGAL DESCRIPTION
PLAN 9520007
BLOCK 12
LOT 29
EXCEPTING THEREOUT ALL MINES AND MINERALS
AREA: 0.373 HECTARES (0.92 ACRES) MORE OR LESS

ESTATE: FEE SIMPLE
ATS REFERENCE: 5;12;59;25;SE

MUNICIPALITY: TOWN OF WHITECOURT

REFERENCE NUMBER: 982 134 267

REGISTERED OWNER(S)				
REGISTRATION	DATE (DMY)	DOCUMENT TYPE	VALUE	CONSIDERATION
982 171 717	17/06/1998	TRANSFER OF LAND	\$47,250	SEE INSTRUMENT

OWNERS

STORMEISTER HOLDINGS LTD.
OF BOX 1017
WHITECOURT
ALBERTA T7S 1N9

(DATA UPDATED BY: CHANGE OF NAME 072454337)
(DATA UPDATED BY: CHANGE OF ADDRESS 072515169)

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
072 454 337	29/07/2007	CHANGE OF NAME RE: STORMEISTER HOLDINGS LTD. BOX 808 WHITECOURT ALBERTA T7S1N8 AFFECTS INSTRUMENT: 982171717



HISTORICAL LAND TITLE CERTIFICATE
TITLE CANCELLED ON JUNE 17, 1998

S
LINC SHORT LEGAL TITLE NUMBER
0026 285 602 9520007;12;29 982 134 267

LEGAL DESCRIPTION
PLAN 9520007
BLOCK 12
LOT 29
EXCEPTING THEREOUT ALL MINES AND MINERALS
AREA: 0.373 HECTARES (0.92 ACRES) MORE OR LESS

ESTATE: FEE SIMPLE
ATS REFERENCE: 5;12;59;25;SE

MUNICIPALITY: TOWN OF WHITECOURT

REFERENCE NUMBER: 972 323 788

REGISTERED OWNER(S)				
REGISTRATION	DATE (DMY)	DOCUMENT TYPE	VALUE	CONSIDERATION
982 134 267	14/05/1998	TRANSFER OF LAND	\$47,250	\$47,250

OWNERS

KANA OILFIELD SERVICES LTD.
OF 4015-38 STREET
WHITECOURT
ALBERTA

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION NUMBER	DATE (D/M/Y)	PARTICULARS
972 323 789	22/10/1997	MORTGAGE MORTGAGEE - PROVINCE OF ALBERTA TREASURY BRANCHES. 4816 HANKIN ST PO BOX 477 THORSBY ALBERTA ORIGINAL PRINCIPAL AMOUNT: \$55,000

REGISTRATION

NUMBER	DATE (D/M/Y)	PARTICULARS
982 152 750	02/06/1998	DISCHARGE OF MORTGAGE 972323789
982 171 717	17/06/1998	TRANSFER OF LAND OWNERS - KANA HOLDINGS LTD. BOX 808 WHITECOURT ALBERTA T7S1N8 NEW TITLE ISSUED

TOTAL INSTRUMENTS: 003

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN ACCURATE REPRODUCTION OF THE CERTIFICATE OF TITLE REPRESENTED HEREIN THIS 11 DAY OF SEPTEMBER, 2019 AT 11:11 A.M.

ORDER NUMBER: 37983625

CUSTOMER FILE NUMBER:



END OF CERTIFICATE

THIS ELECTRONICALLY TRANSMITTED LAND TITLES PRODUCT IS INTENDED FOR THE SOLE USE OF THE ORIGINAL PURCHASER, AND NONE OTHER, SUBJECT TO WHAT IS SET OUT IN THE PARAGRAPH BELOW.

THE ABOVE PROVISIONS DO NOT PROHIBIT THE ORIGINAL PURCHASER FROM INCLUDING THIS UNMODIFIED PRODUCT IN ANY REPORT, OPINION, APPRAISAL OR OTHER ADVICE PREPARED BY THE ORIGINAL PURCHASER AS PART OF THE ORIGINAL PURCHASER APPLYING PROFESSIONAL, CONSULTING OR TECHNICAL EXPERTISE FOR THE BENEFIT OF CLIENT(S).



HISTORICAL LAND TITLE CERTIFICATE

TITLE CANCELLED ON MAY 14, 1998

S
LINC SHORT LEGAL TITLE NUMBER
0026 285 602 9520007;12;29 972 323 788

LEGAL DESCRIPTION

PLAN 9520007

BLOCK 12

LOT 29

EXCEPTING THEREOUT ALL MINES AND MINERALS

AREA: 0.373 HECTARES (0.92 ACRES) MORE OR LESS

ESTATE: FEE SIMPLE

ATS REFERENCE: 5;12;59;25;SE

MUNICIPALITY: TOWN OF WHITECOURT

REFERENCE NUMBER: 952 000 716

REGISTERED OWNER(S)
REGISTRATION DATE (DMY) DOCUMENT TYPE VALUE CONSIDERATION

972 323 788 22/10/1997 TRANSFER OF LAND SEE INSTRUMENT

OWNERS

MAE J PRYMYCH
OF BOX 611
WHITECOURT
ALBERTA T7S 1N7

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION
NUMBER DATE (D/M/Y) PARTICULARS

972 323 787 22/10/1997 CAVEAT
RE : VENDOR'S LIEN
CAVEATOR - ARTHUR B PRIMEAU
BOX 2039
WHITECOURT
ALBERTA T7S1P7
AGENT - JOHN S KENNEY

ENCUMBRANCES, LIENS & INTERESTS

PAGE 2
972 323 788

REGISTRATION

NUMBER DATE (D/M/Y) PARTICULARS

972 323 789 22/10/1997 MORTGAGE
MORTGAGEE - PROVINCE OF ALBERTA TREASURY BRANCHES.
4816 HANKIN ST
PO BOX 477
THORSBY
ALBERTA
ORIGINAL PRINCIPAL AMOUNT: \$55,000

972 356 034 18/11/1997 DISCHARGE OF CAVEAT 972323787

982 134 267 14/05/1998 TRANSFER OF LAND
OWNERS - KANA OILFIELD SERVICES LTD.
4015-38 STREET
WHITECOURT
ALBERTA
NEW TITLE ISSUED

TOTAL INSTRUMENTS: 004

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ACCURATE REPRODUCTION OF THE CERTIFICATE OF
TITLE REPRESENTED HEREIN THIS 11 DAY OF
SEPTEMBER, 2019 AT 11:11 A.M.

ORDER NUMBER: 37983625

CUSTOMER FILE NUMBER:



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OR TECHNICAL EXPERTISE FOR THE BENEFIT OF CLIENT(S).

REGISTRATION

NUMBER DATE (D/M/Y) PARTICULARS

ALBERTA T7S1P7
AGENT - JOHN S KENNEY

972 323 788 22/10/1997 TRANSFER OF LAND
OWNERS - MAE J PRYMYCH
BOX 611
WHITECOURT
ALBERTA T7S1N7
NEW TITLE ISSUED

TOTAL INSTRUMENTS: 003

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN
ACCURATE REPRODUCTION OF THE CERTIFICATE OF
TITLE REPRESENTED HEREIN THIS 11 DAY OF
SEPTEMBER, 2019 AT 11:11 A.M.

ORDER NUMBER: 37983625

CUSTOMER FILE NUMBER:



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OR TECHNICAL EXPERTISE FOR THE BENEFIT OF CLIENT(S).



HISTORICAL LAND TITLE CERTIFICATE

TITLE CANCELLED ON MAY 20, 1994

S
LINC SHORT LEGAL TITLE NUMBER
0017 089 194 5106MC;12;R 80Y204A

LEGAL DESCRIPTION

PLAN 5106MC
IN BLOCK TWELVE (12)
LOT (R) (COMMUNITY RESERVE)
CONTAINING THREE AND SIXTY HUNDREDTHS (3.62) ACRES, MORE OR LESS
EXCEPTING THEREOUT ALL MINES AND MINERALS

ATS REFERENCE: 5;12;59;25;SE
ESTATE: FEE SIMPLE

MUNICIPALITY: TOWN OF WHITECOURT

REGISTERED OWNER(S)					
REGISTRATION	DATE (DMY)	DOCUMENT	TYPE	VALUE	CONSIDERATION
80Y204A	17/03/1964				NIL

OWNERS

NEW TOWN OF WHITECOURT.
OF WHITECOURT
ALBERTA

ENCUMBRANCES, LIENS & INTERESTS

REGISTRATION	DATE (D/M/Y)	PARTICULARS
NUMBER		
942 152 807	20/05/1994	RESERVE DESIGNATION CANCELLED NEW TITLE ISSUED

TOTAL INSTRUMENTS: 001

THE REGISTRAR OF TITLES CERTIFIES THIS TO BE AN
ACCURATE REPRODUCTION OF THE CERTIFICATE OF
TITLE REPRESENTED HEREIN THIS 11 DAY OF
SEPTEMBER, 2019 AT 11:11 A.M.

ORDER NUMBER: 37983625

CUSTOMER FILE NUMBER:



END OF CERTIFICATE

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