Environmental Impact Assessment Registration Seagull Condo Resort

Submitted to:	NB Department of the Environment and Local Government		
	Sustainable Development & Impact Evaluation		
	Marysville Place		
	P. O. Box 6000		
	Fredericton, NB		
	E3B 5H1		

Prepared by:NATECH Environmental Services Inc.2492 Route 640Hanwell, N.B.E3E 2C2

Date: September 2, 2016



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1 THE PROPONENT

1.1 Name of Proponent

Philip Couture, Owner/Propriétaire CG GROUP LTD

1.2 Address of Proponent

281 St-George St, PO, Box 272, Moncton, N.B., E1C 8K9

1.3 Chief Executive Officer

Philip Couture, Owner/Propriétaire CG GROUP LTD Phone: (506) 312 1068 philipcouture@hotmail.com

1.4 Principal Contact for Purposes of Environmental Impact Assessment

Mr. Jochen Schroer, P. Eng. NATECH Environmental Services Inc., 2492 Route 640, Hanwell, N.B., E3E 2C2 Phone: 506 455 1085 E-mail: jochen.s@natechenv.com

1.5 Property Ownership CG GROUP LTD (PID No. 00875237)

2 THE UNDERTAKING 2.1 Name of the Undertaking

Seagull Condo Resort.

2.2 Project Overview

The project consists in the construction of a new condominium building with 33 units. The building will have three floors (528 ft² per floor, 1,584 ft² total above grade). The heating and cooling system for the building will be a central geothermal water to air furnace (1,202 ft² heated). Preliminary drawings of the building are provided in Appendix A.

The existing buildings will be removed (a restaurant, a motel and five chalets). Photos of the existing buildings are provided in Appendix F.

A new wastewater treatment plant (WWTP) will be built (WSB tertiary treatment system), and the treated effluent will be infiltrated into the ground via a long and narrow septic field. Drawings of the WWTP and the septic field are provided in Appendix B. The wastewater treatment and disposal system has been approved by the NB Department of Public Safety (see Certificate in Appendix C).

2.3 Purpose/Rationale/Need for the Undertaking

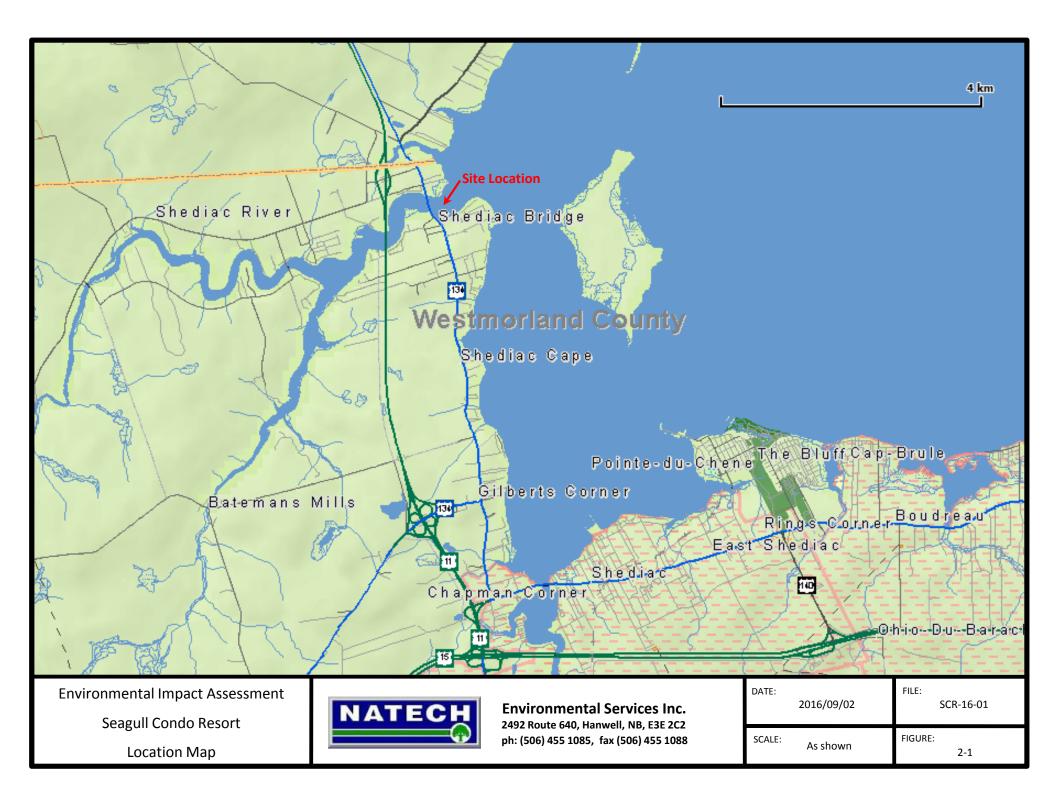
The undertaking is intended to attract new residents and possibly seasonal tourists in the Shediac Bridge area. The existing buildings are abandoned and need to be removed or replaced.

A new well is being proposed and any existing wells will be properly decommissioned. The existing septic system was disturbed during test pitting. The field was found to be in good condition, however it is located in the area of the proposed building and has to be removed.

2.4 Project Location

The proposed project is located on private land identified by Service New Brunswick (SNB) as PID No. 00875237, off highway 134, in the Local Service District of Shediac Bridge-Shediac River, N.B, in the Parish of Shediac and the County of Westmorland. The approximate coordinates of the centre of the property N 7,476,261 m, E 2,648,588 m (in the NB Stereographic system) or N 46.2701°, W -64.5722° (latitude and longitude).

Figure 2-1 shows where the property is located in Shediac Bridge, and Figure 2-2 displays an aerial photograph of the property.



Mouth of Shediac River **New Wastewater Treatment Pla** and Disposal Field **Existing Motel to be** Replaced with New Condos 11111111 C R

Environmental Impact Assessment

Seagull Condo Resort

Site layout



Environmental Services Inc. 2492 Route 640, Hanwell, NB, E3E 2C2 ph: (506) 455 1085, fax (506) 455 1088

DATE:	2016/09/02	FILE: SCR-16-01
SCALE:	As shown	FIGURE: 2-2

2.5 Siting Considerations

The new condominium building will be located slightly further from the water's edge than the existing buildings (see Survey Drawing in Appendix A). The water will be supplied by a new drilled well. A Water Supply Source Assessment is being carried out and will be submitted under separate cover as Appendix D. The location of the wastewater disposal field was chosen based on the slope of the terrain, soils conditions, and to minimize the amount of earth work required. The distance to the shore line was maximized.

Wetlands: Based on the publicly available wetland mapping (http://geonb.snb.ca/geonb/), there are no provincially regulated wetlands near the construction site. The GeoNB Map viewer wetland mapping layer as of August 30, 2016 is attached in Appendix E.

Coastal protection: coastal issues at this site are related to tidal water levels, only. There is no coastal marsh in the vicinity of the property. Available CHS chart information for Shediac Bay lists the mean sea level at 1.0 m, mean high tides at 1.4 m and highest high tides at 1.7 m, with a difference of 0.3 m between the two high tides. The site plan identified the Ordinary High Tide Level at 0.83 m geodetic. The Higher High Water Large Tide (HHWLT) is therefore estimated at a height of 1.13 m geodetic. The distance between the HHWLT and the building location is approximately 43 m. The building is therefore placed in Zone C. Only the on-site disposal system is located within Zone B. The disposal field will be built on land that is currently being used as either driveway or lawn. The elevation of the building is at 3.25 m, thereby 2.12 m above the HHWLT level. Building levels were determined by a local surveyor, experienced with the local building requirements. The design was also discussed with the local planning commission.

Archaeology: testing for archaeological resources will be carried out in the areas that will be disturbed and that have not been disturbed in the past.

Zoning: the property is currently zoned as "commercial" on *Shediac Bridge Zoning Map B-2* in the *BeauBassin West Rural Plan* (map provided in Appendix H).

2.6 Physical Components and Dimensions of the Project

The activities associated with the undertaking include: removal the old buildings, decommissioning of existing well and septic system, construction of the new condominium building, excavation of trenches and holes, placement of wastewater treatment tanks and the effluent disposal structures, covering with topsoil, and re-seeding. These activities will increase vehicular traffic during construction.

The components of the proposed 33 two-bedroom units condominium development are shown on the Drawings and Sketches provided in Appendix A.

Drawings of the wastewater treatment and disposal system are provided in Appendix B. The design water and wastewater flow rate is an average of 23 m³/day. Given the limited space available, and the proximity to the beach, a secondary wastewater treatment and tertiary treatment and disposal for this system was selected. Secondary treatment will be provided by a WSB_® Clean Pro wastewater treatment plant. The system ensures proper wastewater treatment prior to disposal, as well as flow equalization. The treatment plant components include:

- 1. One (1) 2,000 IGAL CSA approved concrete flow equalization tank.
- 2. One (1) 1,000 IGAL CSA approved concrete flow equalization tank.
- 3. One (1) 2,000 IGAL CSA approved concrete sludge storage tank.
- 4. One (1) 2,000 IGAL CSA advanced treatment bioreactor tank
- 5. Two (2) 1,000 IGAL CSA advanced treatment bioreactor tanks
- 6. One (1) 1,000 IGAL WSB final clarifer tank
- 7. One (1) 2,000 IGAL CSA effluent pump tank including two (2) effluent pumps

The WSB Clean system utilizes a fluidized floating bed biofilm process. The WSB bioreactors contain specially designed plastic carrier media. Microorganisms settle on the media and consume the organic material in the wastewater. The system has been sized and designed to provide an advanced level of treatment with anticipated water quality equal to or less than:

- \Box 20 mg/L Five Day Biochemical Oxygen Demand (BOD₅).
- 20 mg/L Total Suspended Solids (TSS).

Tertiary treatment and equalized effluent disposal will be provided through a field of Large Diameter Matted Pipes (LDMP). The pipes are passively vented, thereby providing additional aeration for effluent treatment. The disposal field contains 144 LDMPs arranged into four fields of four rows of nine pipes each. Total pipe length is 440 m. The disposal field covers 600 m² plus tapers and contains 0.30 m of imported treatment sand below the LDMP pipes. The sand has to meet strict gradation limits. Details of the design are shown in Appendix B.

2.7 Construction Details

The construction will occur from the fall of 2016 to the spring of 2017.

Construction and demolition debris will be sent to an approved C&D waste disposal site. Septic tanks will be decommissioned and transported to approved disposal facilities by a licensed septic system installer. Wells will be decommissioned by a licensed well driller.

2.8 Management Structure

Each condo will be purchased by an individual party. Condition of the purchase is the commitment to join the Condo Association. The association is an incorporated, legal entity governed by a board of directors. The association takes on legal and financial responsibility. The association looks after management aspects such as collection of fees, payment of bills, upkeep and maintenance of the building and property, etc.

2.9 Future Modifications, Extensions, or Abandonment

No future modifications, extensions or abandonment are envisioned for the foreseeable future.

2.10 Project-related Documents (attached)

- Appendix A Drawings and sketches of the proposed development
- Appendix B Drawings of the proposed wastewater treatment and disposal system
- Appendix C Wastewater treatment and disposal system Approval (NB Public Safety)
- Appendix D Water Supply Source Assessment Application
- Appendix E Wetland Map
- Appendix F Site Photographs
- Appendix G Historical Aerial Photographs
- Appendix H Zoning map
- Appendix I Public consultation draft documents

3 DESCRIPTION OF THE EXISTING ENVIRONMENT

3.1 Physical and Natural Features

Site topography: minimum elevation: 0.7 m, maximum: 3.5 m. Minimum gradient: 2% (in construction area), maximum gradient: 10% (slope of bank of beach).

General surface drainage: toward the North, as shown on the site plan in Appendix A.

There are no mapped wetlands on the property, the property is located between a beach and a residential street (Chemin Indian Point), with access on the western side from Route 134.

A site visit and a survey were carried out on May 31 and June 10, 2016. Test pit logs are shown on Drawing No. C-05 in Appendix B, photographs are provided in Appendix F.

Protected areas: There are no protected areas on the property where construction will take place (residential neighbourhood).

Species at risk or of conservation concern: the use of the property and the beach will not change significantly due to the development (motel and chalets replaced by condos). There are no concerns beyond the normal concerns related to people living near a beach.

3.2 Cultural Features

There are no known cultural features of concern in the construction area.

3.3 Existing and Historic Land Uses

Based on a review of aerial photos (provided in Appendix G), the land appeared to be farmed in 1944 and 1954. The first buildings were constructed between 1954 and 1963.

3.4 Neighbouring properties

Figure 3-1 shows the PIDs of adjacent properties, and the owners are listed in Table 3.1.

No.	PID	Property Owner
1	780296	
2	859728	
3	872739	
4	874263	
5	874461	
6	874529	
7	874636	
8	874792	
9	874818	
10	874826	
11	70093406	
12	70093760	
13	70093778	
14	70095617	
15	70096797	
16	70293907	
17	70293915	
18	70442975	
19	70473897	
20	70473905	
21	70514336	

Table 3.1 Neighbouring properties



Environmental Impact Assessment Seagull Condo Resort Neighbouring PID`s



Environmental Services Inc.

2492 Route 640., Hanwell, N.B. Ph: (506) 455-1085 Fax: (506) 455-1088

Date:	2016/09/02	Project No.: SCR-16-01
Scale:	AS SHOWN	Figure: 3-1

4 SUMMARY OF ENVIRONMENTAL IMPACTS

The following potential impacts were identified, mainly during the construction phase.

- Air/Water/Soil Contamination during construction
- Erosion
- □ Noise, Vibration

There are no oil tanks on the property. Heating was always with electricity, and the restaurant used propane for cooking.

The construction site is in a relatively flat area and does not receive runoff from neighbouring properties. No significant amounts of stormwater are anticipated in the construction area.

5 SUMMARY OF PROPOSED MITIGATION

5.1 Air/Water/Soil Contamination:

Best Construction Management practices will be applied.

5.2 Erosion

Air/Water/Soil Contamination: Silt fences and check dams will be installed downgradient of the construction.

5.3 Noise and Vibration

Construction will be carried out during normal operation hours from 8:00 to 18:00. A limited amount of truck traffic is expected for the import and export of materials. Access to the site during construction will be predominantly from Route 134.

6 PUBLIC INVOLVEMENT

Based on the minimum public involvement standards for registered projects outlined in Appendix C of "A Guide to Environmental Impact Assessment in New Brunswick" (NBDELG, 2012), the proponent is planning to notify the owners of the neighbouring properties (identified in red on Figure 3-1) by hand delivering a flyer with relevant project information. Additional relevant stakeholders (local watershed group, MLA, etc.) will be informed about the development as well. The proponent is also planning to place a notice in the local newspaper (Moncton Transcript). The draft mailout letter and the draft notice are attached in Appendix I, including information on where to find the EIA registration document. The comments received from the public will be provided to the technical review committee.

7 APPROVAL OF THE UNDERTAKING

Permits, licenses and other authorizations required for the undertaking include:

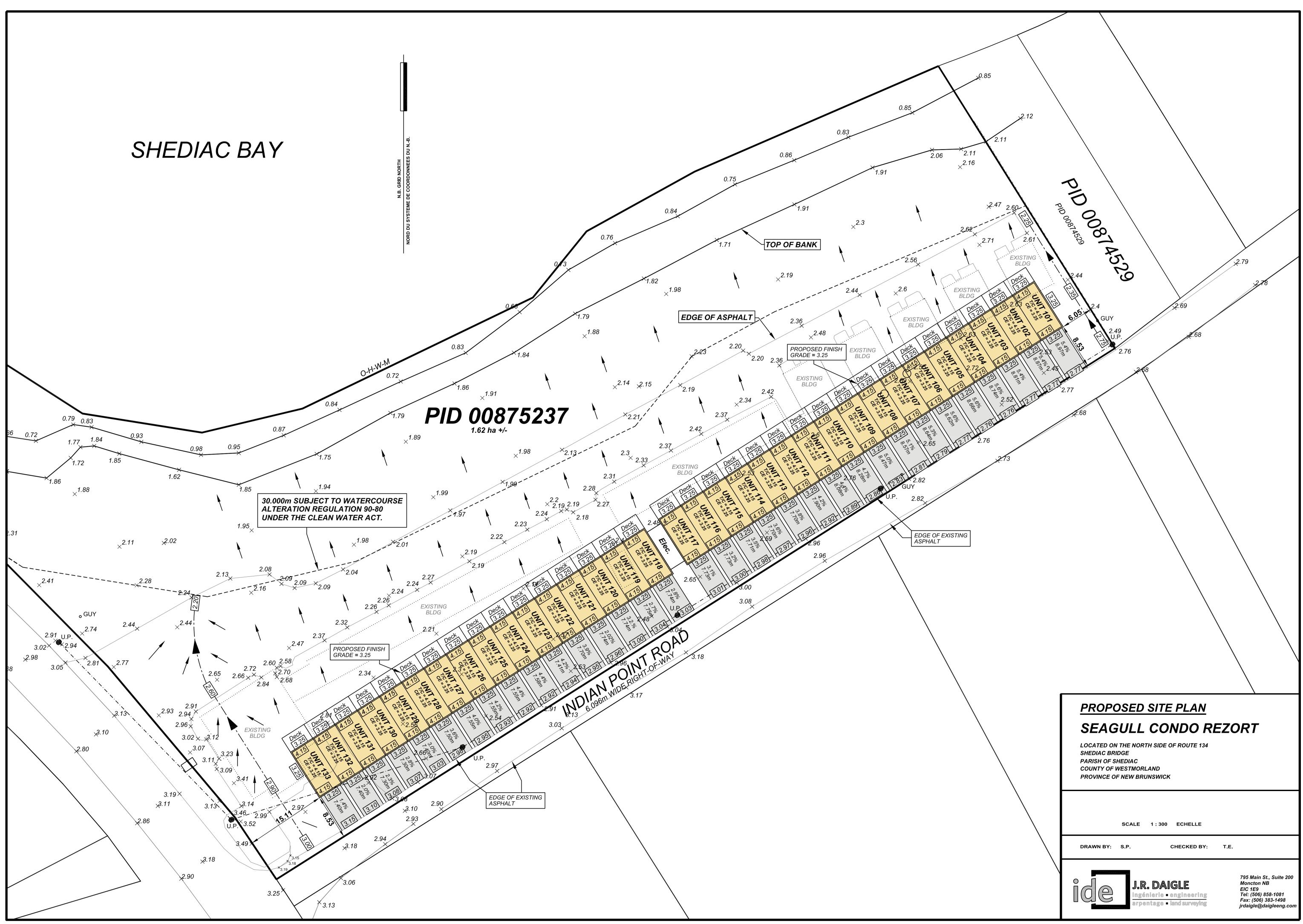
- Construction permit for the building (will be obtained by the owner before starting construction)

- Approval from the NB Department of Public Safety for the onsite effluent disposal system (already obtained and attached in Appendix C).

Appendix A

Drawings and sketches of the proposed development

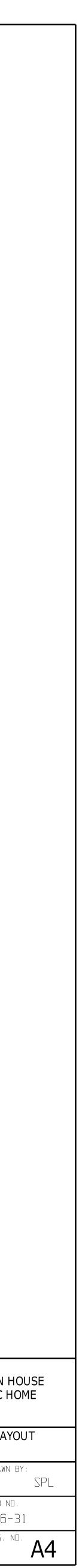




2016738900\SITE PLAN 2016 REV2.DWG SCALE 300 PRINTED 10:07 AM 29-Jun-2016 SP



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	TITLE: PLANS UN]	T LAYC
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Architectural Drafting & Design	SCALE: 1/4"=1'-0"	DWG. NE





















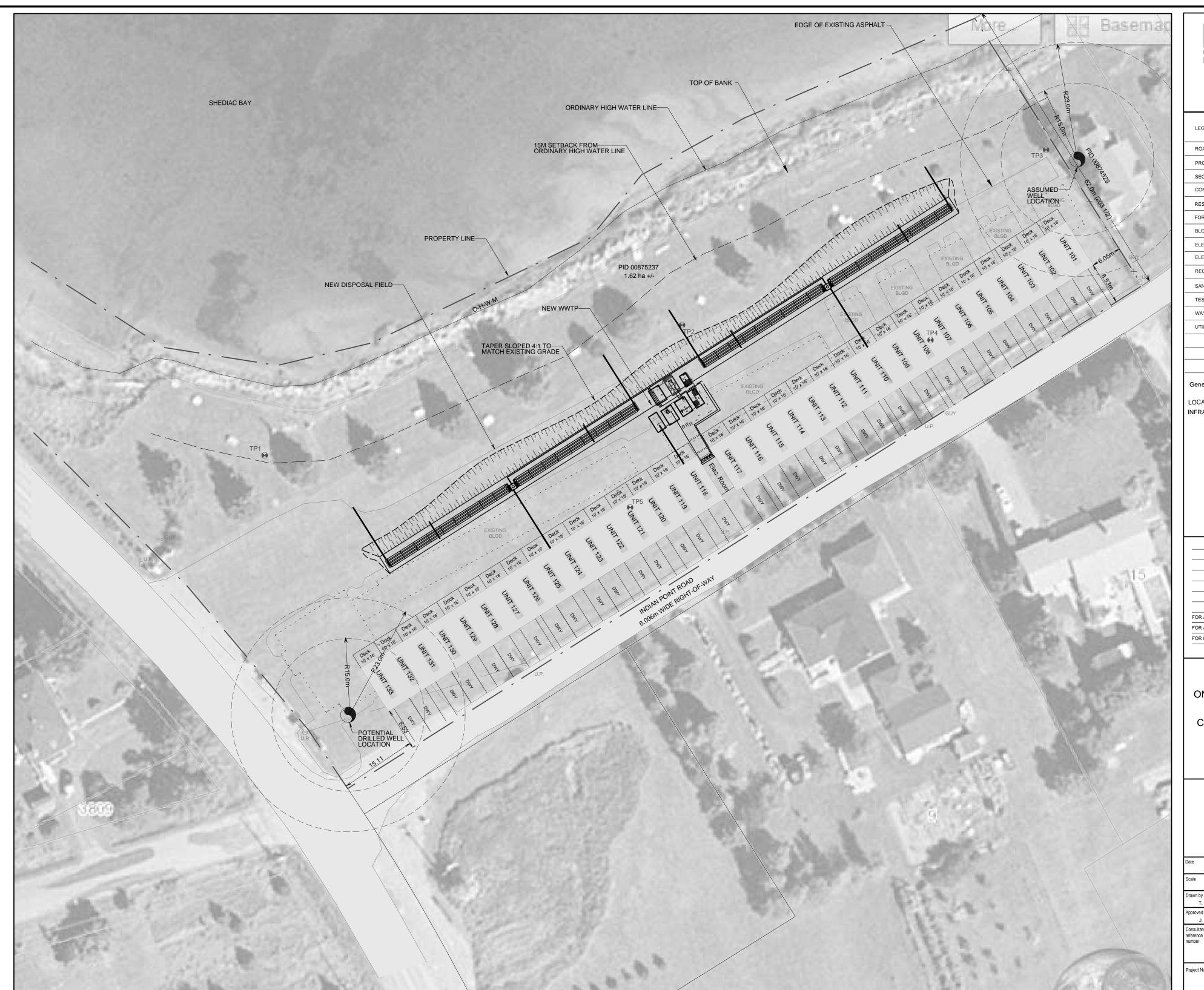






Appendix B

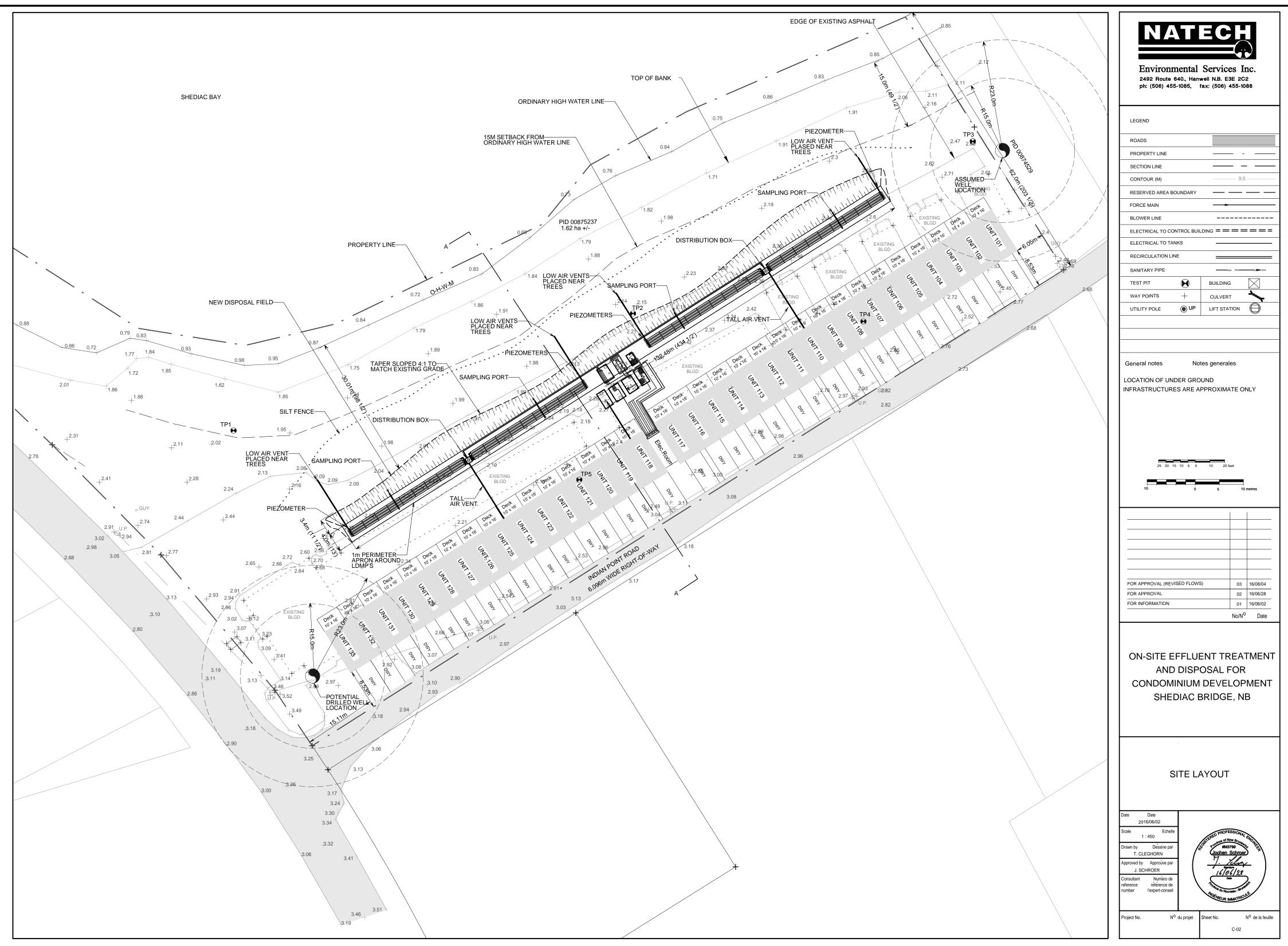
Drawings of the proposed wastewater treatment and disposal system

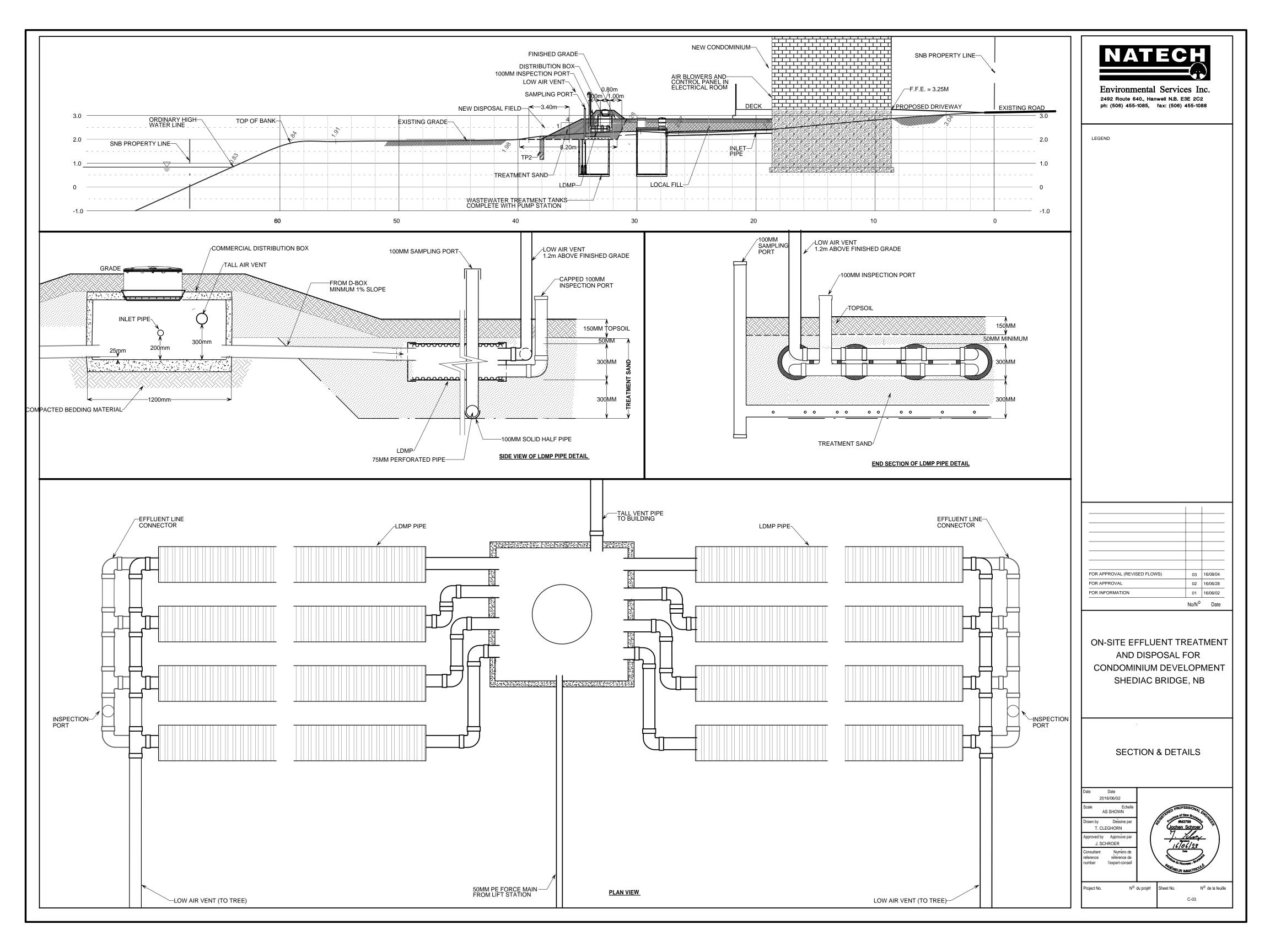


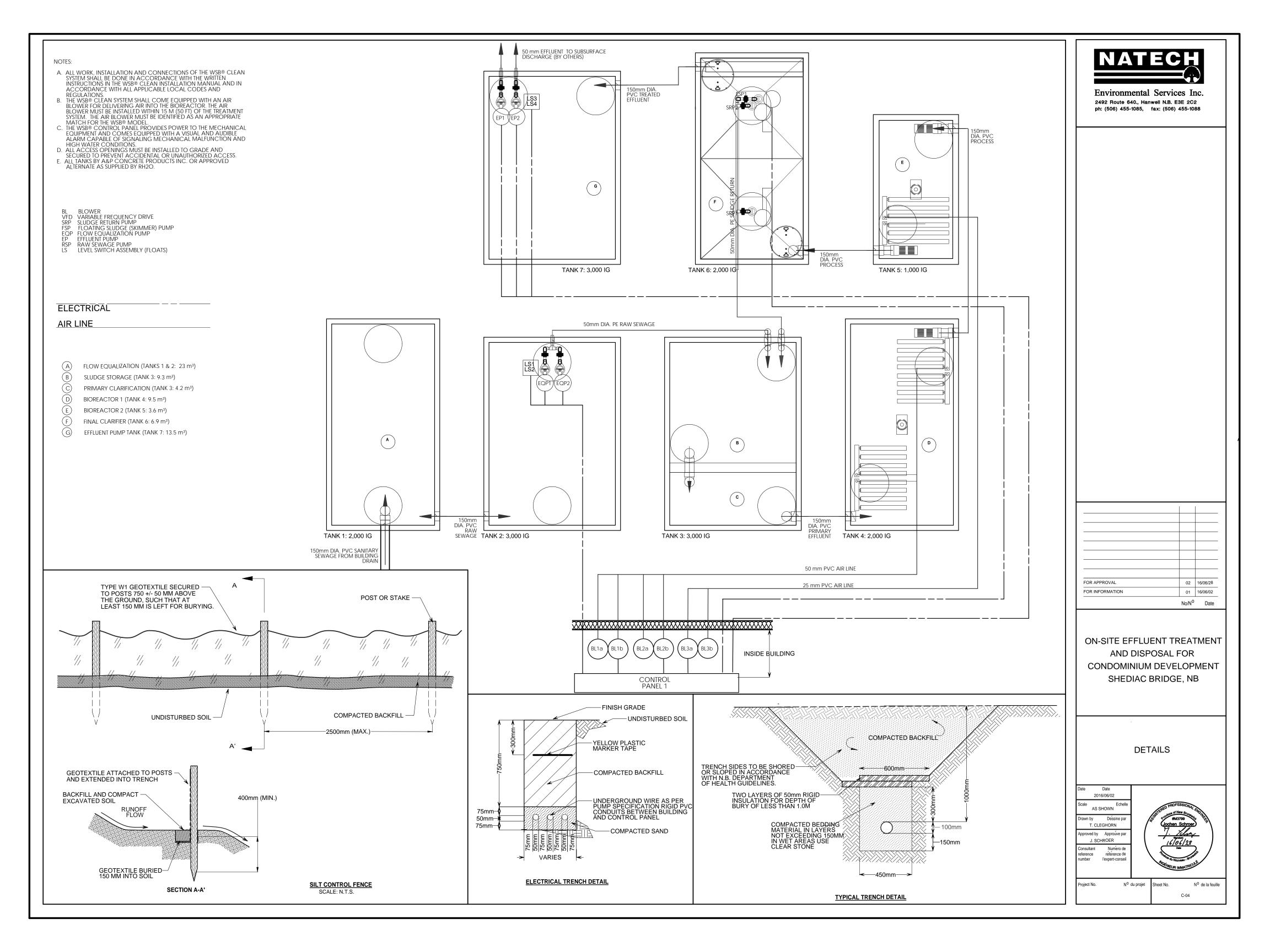
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LEGEND			
ROADS			
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SECTION LINE			
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RESERVED AREA	BOUNDARY		
FORCE MAIN			
BLOWER LINE			
ELECTRICAL TO C			
RECIRCULATION L			
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WAY POINTS		CULVERT	
UTILITY POLE	O UP	LIFT STATIO	N O
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C-01



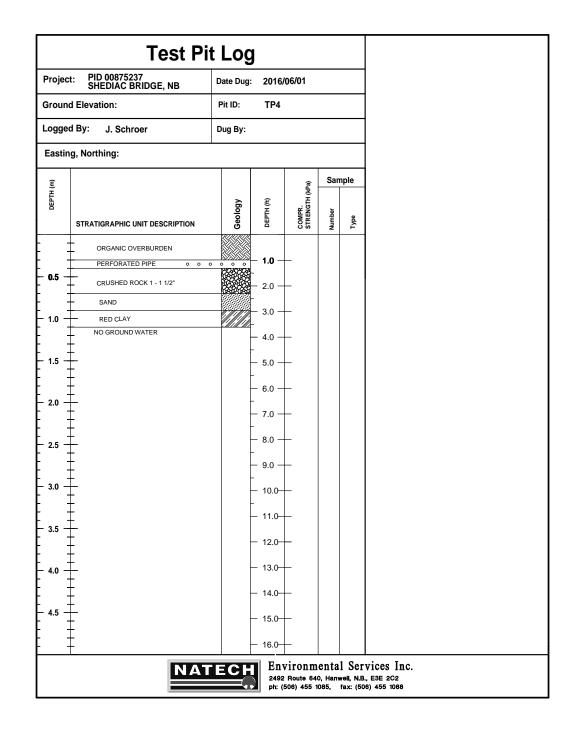


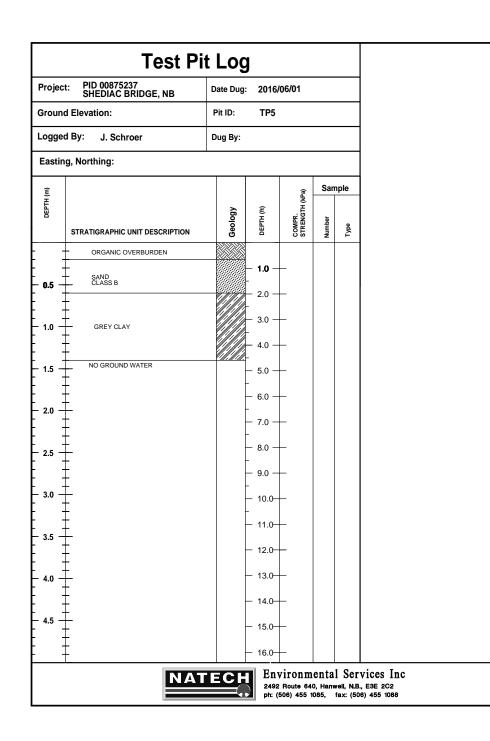


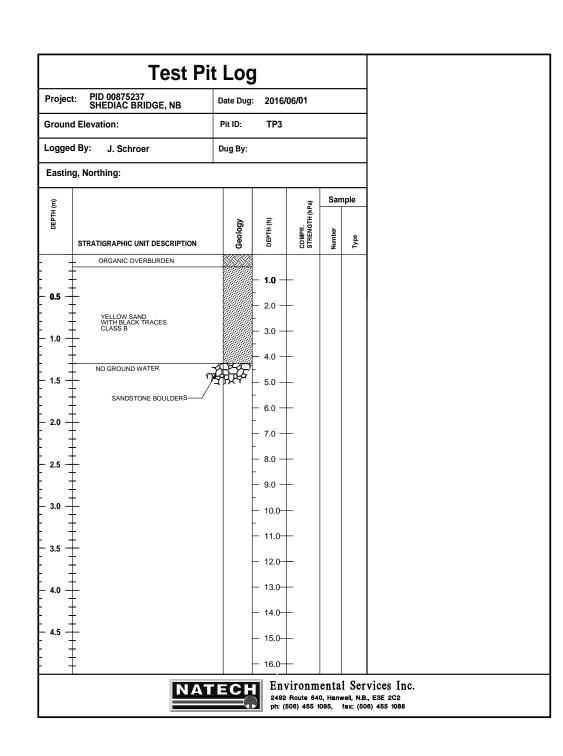


	Test P	it Log	l		
Projec	t: PID 00875237 SHEDIAC BRIDGE, NB	Date Dug:	2016/06/01		
Groun	d Elevation:	Pit ID:	TP1		
Logge	d By: J. Schroer	Dug By:			
Eastin	ıg, Northing:				
				San	nple
	STRATIGRAPHIC UNIT DESCRIPTION	Geology		Number	Type
	ORGANIC OVERBURDEN		- 1.0		
- 0.5 -	SAND CLASS B		- 2.0		
- 1.0 -	RED CLAY CLASS D		- 3.0 		
- 1.5 -	NO GROUND WATER		- 5.0		
- 2.0 -	- - 		- 6.0		
- 2.5 -	+ - - -		- 8.0		
	+ - - -		- - 9.0		
- 3.0 -			- 10.0 - - 11.0		
- 3.5 -	+- - - -		- 12.0		
- 4.0 -	+ - -		- 13.0		
- 4.5 -	+ - 		- 15.0		
	- - -		- 16.0		

Project	: PID 00875237 SHEDIAC BRIDGE, NB	Date Dug:	2016/06/01		
Ground	Elevation:	Pit ID:	TP2		
Logged	By: J. Schroer	Dug By:			
Easting	g, Northing:	1			
				Sam	nple
	STRATIGRAPHIC UNIT DESCRIPTION	Geology		Number	Type
-	ORGANIC OVERBURDEN				
0.5	- SAND MIXED WITH SANDSTONE CLASS B		- 1.0		
1.0 —	RED CLAY SOME SANDSTONE <30CM DIAM.		- 3.0 -		
	NO GROUND WATER		- 4.0		
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- 2.0 -	- - - -		- 6.0		
- 2.5 -	-		- 8.0 -		
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NATECH

SPECIFICATIONS

1. GENER	RAL SPECIFICATIONS:	NOTES:	
1.1	ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL PROVINCIAL, AND NATIONAL BUILDING CODES, THE CANADIAN BUILDING CODE, THE CANADIAN ELECTRICAL CODE AND THE CANADIAN PLUMBING CODE, LATEST EDITIONS.	1.	ALL WORK, INSTALLATION GUIDELINES AND IN ACCO
1.2	ALL WORK SHALL BE CARRIED OUT BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE SUCH TRADE IN N.B. THE INSTALLER SHALL BE A MEMBER IN GOOD STANDING OF THE NB AOWP (THE NEW BRUNSWICK ASSOCIATION OF ONSITE WASTERWATER PROFESSIONALS).	2.	. ALL ACCESS OPENIN LOCAL CODES AND R
1.3	ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK. DIMENSIONAL REVIEW IS THE CONTRACTOR'S RESPONSIBILITY.	3. 4.	ALL PIPE SEALS ARE STANDARD ACCESS
1.4	ANY AND ALL TEMPORARY BRACING AND SHORING WHICH IS NEEDED TO HOLD THE STRUCTURES IN PLACE IN A SAFE AND STABLE POSITION UNTIL THE PROJECT IS COMPLETE IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR HAS TO CONSULT AN INDEPENDENT ENGINEER IF DESIGN ASSISTANCE OR REVIEW IS NEEDED.	5.	. THE PARTITION IS CA
1.5	ALL MATERIAL AND WORK SHALL CARRY A MINIMUM ONE YEAR WARRANTY AFTER THE DATE OF COMMISSIONING.		
1.6	ALL CHANGES TO THE DESIGN WILL BE RECORDED BY THE CONTRACTOR ON "AS BUILT" DRAWINGS AND TOGETHER WITH ALL MANUALS AND DOCUMENTS PROVIDED TO THE OWNER AT THE END OF THE JOB.	2.2.1	SEPTIC TANKS: CSA APPF
1.8	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK, ANY CHANGES MUST BE APPROVED BY THE ENGINEER.	2.2.2	DISTRIBUTION BOXES: CO COVERS, AS PROVIDED B
1.9	IT IS THE ELECTRICIAN'S RESPONSIBILITY TO OBTAIN PERMISSION FROM THE DEPARTMENT OF LABOUR TO INSTALL THE LIFT	2.2.3	TWO 800 IGAL GREASE IN
1.10	STATION AND ALL ASSOCIATED FEATURES. ALL UNDERGROUND UTILITY LINES TO BE LOCATED AND MARKED BY CONTRACTOR PRIOR TO DIGGING.	2.2.4 2.2.5	MECHANICAL PUMP INST
1.11	ALL RISERS SHALL BE EXTENDED TO THE SURFACE, COMPLETE WITH CHILD PROOF, TAMPER PROOF LIDS.		

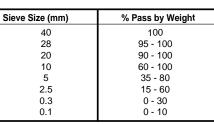
1.12 ALL GRAVITY CONECTIONS SHALL HAVE A 2% SLOPE, UNLESS OTHERWISE SPECIFIED.

2. PRODUCTS:

- 2.1 DISTRIBUTION BOX: CONCRETE BOX, AS SHOWN ON DRAWINGS, WITH SPEED LEVELLERS AVAILABLE FROM A & P CONCRETE OR APPROVED EQUAL.
- 2.2 LARGE DIAMETER MATTED PIPE (LDMP): ENVIRO-SEPTIC PIPE AS MANUFACTURED BY PRESBY ENVIRONMENTAL, AVAILABLE FROM J & L MARKETING, OR APPROVED EQUAL.
- 2.3 GRAVITY SEWER PIPING: 100MM PVC SCHEDULE 40. UNLESS NOTED OTHERWISE, ALL JOINTS TO BE GLUED.
- 2.4 TREATMENT SAND AROUND LDMP: MATERIAL HAS TO MEET THE FOLLOWING GRADATION:

Sieve Size (mm)	% Pass by Weight
10	100
2.5	80 - 100
1.25	30 - 100
0.6	15 - 95
0.3	4 - 15
0.2	2 - 8
<0.1	0 - 3

2.5 BEDDING MATERIAL: MATERIAL HAS TO MEET THE FOLLOWING GRADATION:



2.6 TOP SOIL SHALL BE A MIXTURE OF SOIL AND DECOMPOSING ORGANIC MATTER USED AS A FERTILIZER, MULCH, OR COMPOST. COMPOST IS PROCESSED ORGANIC MATTER CONTAINING 40% OR MORE ORGANIC MATTER. TOP SOIL TO BE COVERED WITH GRASS SEED AND HAY MULCH.

2.7 SEWAGE TREATMENT TANK AND EQUIPMENT TO BE PROVIDED BY RH20 NORTH AMERICA OF BRESLAU, ONTARIO.

2.8	PIPING:	LOCATION	MATERIAL	DIAMETER	THICKNESS	JOINTS
		FROM BUILDING TO SEPTIC TANKS	ABS	100 OR 150MM		GLUED
		FROM SEPTIC TANKS TO LIFT STATION	PVC	100MM	SCHEDULE 40	GLUED
		FROM LIFT STATION TO DISPOSAL FIELD	HDPE	50MM	100 PSI	
		IN DISPOSAL FIELD	PVC	100MM	SCHEDULE 40	GLUED

2.9 CONTROL BUILDING:

- EXHAUST FAN: GREENHECK DIRECT DRIVE EXHAUST FAN CW060 OR APPROVED EQUAL - LOUVER: FIXED LOUVRES MODEL EAL-2F BY CANARM HVAC PRODUCTS OR APPROVED EQUAL.

GENERAL CONDITIONS FOR WSB WASTEWATER TREATMENT PLANT

- A. ALL WORK, INSTALLATION AND CONNECTIONS OF THE WSB® CLEAN SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS IN THE WSB® CLEAN INSTALLATION MANUAL AND IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND REGULATIONS.
- B. THE WSB® CLEAN SYSTEM SHALL COME EQUIPPED WITH AN AIR BLOWER FOR DELIVERING AIR INTO THE BIOREACTOR. THE AIR BLOWER MUST BE INSTALLED WITHIN 15M (50 FT) OF THE TREATMENT SYSTEM. THE AIR BLOWER MUST BE IDENTIFIED AS AN APPROPRIATE MATCH FOR THE WSB® MODEL.
- C. THE WSB® CONTROL PANEL PROVIDES POWER TO THE MECHANICAL EQUIPMENT AND COMES EQUIPPED WITH A VISUAL AND AUDIBLE ALARM CAPABLE OF SIGNALING MECHANICAL MALFUNCTION AND HIGH WATER CONDITIONS. ALARMS SHALL BE A 120 VOLT AUDIBLE ALARM LOCATIED IN A CONVENIENT, ACCESSIBLE AREA, AND CLEARLY AND PERMANENTLY LABELED AS "SEWAGE PUMP TANK-HIGH LEVEL ALARM".
- D. ALL ACCESS OPENINGS MUST BE INSTALLED TO GRADE AND SECURED TO PREVENT ACCIDENTAL OR UNAUTHORIZED ACCESS.
- E. A MAXIMUM OF 1 METRE BURIAL DEPTH IS ALLOWABLE ON TOP OF THE TANK IN A NON-TRAFFIC AREA. EXTRA REINFORCMENT IS REQUIRED FOR USE IN AREAS WITH VEHICULAR TRAFFIC AND BURIAL DEPTHS OVER 1 METRE.
- F. WSB® MUST BE REPRESENTED DURING CONSTRUCTION ACTIVITIES TO VERIFY DESIGN ASSUMPTIONS AND TO DOCUMENT THE THE CONSTRUCTION OF THE SYSTEM. THIS DESIGN CANNOT BE RELIED UPON WITHOUT THIS SUPERVISION.

		Environmental Services Inc. 2492 Route 640., Hanwell N.B. E3E 2C2 ph: (506) 455-1085, fax: (506) 455-1088
NOTES: 1. 2. 3. 4. 5. 6.	ALL WORK, INSTALLATION AND CONNECTIONS SHALL BE DONE IN ACCORDANCE WITH THE WRITTEN INSTRUCTIONS IN THE TANK MANUFACTURERS INSTALLATION GUIDELINES AND IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND REGULATIONS. ALL ACCESS OPENINGS MUST BE SECURED TO PREVENT ACCIDENTAL OR UNAUTHORIZED ACCESS AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND REGULATIONS. ALL PIPE SEALS ARE FLEXIBLE WATERTIGHT SEALS AND ACCOMMODATE THE PIPE SIZES AS NOTED ON THE DRAWING. STANDARD ACCESS OPENINGS ARE 24" POLYETHYLENE UNLESS OTHERWISE NOTED DRAWING. THE PARTITION IS CAST MONOLITHICALLY WITHIN THE WALLS AND FLOOR UNLESS OTHERWISE NOTED ON DRAWING. ALL JOINTS MUST BE SEALED WITH MASTIC SEALANT TO ENSURE WATER TIGHT SEAL.	LEGEND
2.2.1 2.2.2 2.2.3 2.2.4 2.2.5	SEPTIC TANKS: CSA APPROVED, AS PROVIDED BY RH2O / A & P Concrete DISTRIBUTION BOXES: COMMERCIAL SIZE CONCRETE BOX, AS SHOWN ON DRAWING, WITH SPEED LEVELERS AND CONCRETE RISERS AND COVERS, AS PROVIDED BY A & P CONCRETE OR APPROVED EQUAL. TWO 800 IGAL GREASE INTERCEPTOR: PROVIDED BY RH20 / A&P CONCRETE MECHANICAL PUMP INSTALLATION: STAINLESS STEEL DUPLEX RAIL SYSTEM C/W RAIL SYSTEM AS PROVIDED BY RH20. ALUMINUM ACCESS DOOR: LOCKABLE DOOR WITH NON-CORRODING HINGES CAST INTO COVER.	
 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11 3.12 3.13 3.14 3.15 	SUCCESSION OF A SUCCESSION	

Appendix C

Wastewater treatment and disposal system Approval (NB Public Safety)

D New

ouveau

To:93723347

08/16/2016 14:18 #110 P.002/004

APPROVAL TO INSTALL APPROBATION POUR I'INSTALLATION

Public Safety Ministère de la Sécurité publique

Technical Inspection Services Services d'inspection technique

Brunswick 2016/	/08/16 Services d'inspection technique
	Licence Number 386247 Numéro de licence
Carter's Septic Tank Service Ltd. 46295 Homestead RD Second North River, NB	Telephone of Licensee No de téléphone du 506-852-6104 titulaire de licence
E4J 1Y5 7805	
Permit Type OSSD Permit (N/C - Other System	n) PERMIT # 412930
Fype de licence Name of Property Owner Norm du propriétaire PVC Homes c/o Max Godbout	
Property Location Emplacement de la propriété 3808 134 Rte Shediac Bridge	PID # 875237 NID 875237
Based on the assessment conducted to ensure the proposed system meets the intent of the Public Health Act, NB Regulation 2009-137 and New Brunswick Technical Guidelines for On-site Sewage Disposal Systems, this on-site sewage disposal system application is	Compte tenu de l'évaluation menée en vue de vérifier que le système proposé respecte la visée de la Loi sur la santé publique, du Règlement du NB. 2009-137 et des lignes directrices techniques du Nouveau-Brunswick relativement aux systèmes autonomes d'évacuation et d'épuration des eaux usées, ce système autonome d'évacuation et d'épuration des eaux usées est
APPROVED for the <u>New Installation</u> of an on-site sewage disposal system on the property noted above designed for a flow of 2055 + 350/ Additional Room I/d and for the intended use of	APPROUVÉ pour une <u>Nouvelle Installation</u> d'un système autonome d'évacuation et d'épuration des eaux usées sur la propriété susmentionnée pour un débit d'eaux usées de 2055 + 350/ Additional Room litre/jour et pour l'utilisation
Date of Plan / Date du Plan 2016/07/28	-
INPORTANT NOTICE Should the design and location of the on-sile sewage disposal system require any changes encountered during installation or for any other reason, Technical Inspection Services must be notified, in writing, and must approve the changes. All systems are subject to an audit and must remain uncovered for 3 full business days after the Inspector is in receipt of the Notification of Installation form. Approvals are valid for a period of 12 months, are not transferable and may be subject to regulatory changes. Expansion beyond the above noted estimated daily sewage flow may require a new approval. Applications are required for all expansions of commercial facilities and those licensed or requiring a licence for food-service premises under the Public Health Act.	alle ne peut pas etre transferez et est susceptiste a dus élevé que le agrandissement qui cause un débit d'eaux usées plus élevé que le
Inspector Inspecteur	Solution Date Date Date Date Date
Chief Plumbing Inspector (if required)	Date Daté
	ssing Suite 100/Pièce 100 Page 1 of 3 n, NB E3A 0X9

FORM A

ACCEPTANCE OF ON-SITE SEWAGE SYSTEM DESIGN BY ENGINEERING FIRM *Please print clearly and complete Sections 1 to 3.

2. Installation Company Information Licensed Installer Company Name: Supplied Supplied Mailing Address:

Licence Number: 862

 3. Property Information

 Property Owner:
 Property Location:

 PVC Home Builder
 3808 Route 134, Shediac Bridge, NB

 Area and Dimensions:
 PID:

 1.62 hectares (approx. 186m x 62m)
 00875237

4. Office Use Only

An assessment has been conducted to ensure the proposed on-site sewage disposal system design and application meets the intent of *Regulation 2009-137*. Based on this assessment, the Inspector deems the design and application is compliant with *Regulation 2009-137*.

	Yes A	No (s	ee comments)	I
Signature of Inspector:	Show	NO W	Date	516,2016
Approval of Chief Plumb	ng Inspector Yes.	No , (see comments)	~ / <i>C</i> / C
Signature of Chief Plumb	ing Inspector:	lion fills	· Date: Aug	12,20/6

This approval is valid for a period of 1 year (365 days) from date of signature by the Chief Plumbing Inspector and does not confer liability on employees of the New Brunswick Department of Public Safety.

This approval does not constitute a warranty as per Section 24(5) of the Public Health Act.

February 2016

Appendix D

Water Supply Source Assessment

Water Supply Source Assessment

Step One Application

 Name of proponent: PVC Home Builder, 281 St-George Street, P.O. Box 272, Moncton NB E1C 8K9, Mr. Philip Couture, Phone 506-312-1068.

2) Locations of drill targets (including property PID) and the purpose of the proposed water supply? The proposed condo development will be a resort having a total of 33 units, each unit having two bedrooms. The water supply will provide water for drinking, washing and other normal residential activities within the condominium. The property PID is 00875237. The drill target is shown in Figure 1 in blue ink and identified as PW1. The potential drill target location is constrained by the existing and proposed septic systems, overhead power lines and the configuration of the proposed condominium. It is proposed that an existing well on the property be used as an observation well. This is shown in Figure 1 in blue ink as OBS1.

3) Required water quantity (in m³/day) and/or required pumping rate: The design water demand for private recreational or residential homes is prescribed in the NBDELG Water Supply Assessment Guideline as follows:

"The per-person requirement shall be 450 liters per day. Peak demand occurs for a period of 120 minutes each day. This is equivalent to a peak demand rate of 3.75 liters/minute (0.82 igpm) for each person. The basic minimum pumping test rate is this rate multiplied by the "likely number of persons per well" which, for a single family residence shall be the number of bedrooms plus one."

The proposed condominium will have 33 units with two bedrooms each, yielding a population estimate of 99 persons. This translates to a daily water requirement of 44.55 m³/day or 6.8 igpm on a 24-hour basis. This produces a peak demand rate of 81 igpm. It is recognized that these design numbers are high and error on the side of high capacity. The NB DOH Technical Guidelines for On-site Sewage Disposal Systems (Version 5, 2016) gives a design number of 1022 L/day for two bedroom units. Using these design numbers, the proposed condominium development would require 31 m³/day or 4.7 igpm over the 24-hour period. This produces a peak demand rate of 56 igpm. It is felt that these latter numbers are more accurate predictions of actual useage.

4) List alternate water supply sources in area (including municipal systems): There are no practical alternatives to the proposed groundwater supply. A surface water supply would be unsuitable due to potential contamination issues and in any event, the closest potential source is salt water.

5) Discuss area hydrogeology as it relates to the project requirements. The surficial overburden at the site is red sandy till of approximately 0 to 5.5 meters (0 to 18 feet) in thickness. The overburden is not used for ground water supplies in the area.

The bedrock in the area is mapped as Pennsylvanian age sedimentary rocks composed of red and grey conglomerate, sandstone, siltstone, and shale, which also forms the local bedrock aquifer. The bedrock is known to be relatively transmissive (readily conducts the flow of ground water). The bedrock units or layers tend to be lenticular (i.e. of variable lateral extent and thickness) and are thought to have formed as a result of sedimentary particles deposited from flowing water (alluvial deposition). The individual beds average less than 1 meter in thickness; however, the total bedrock unit can be several hundred meters thick. This bedrock aquifer covers a large portion of New Brunswick, stretching from the Fredericton area northeast to Shippigan and southeast to the Shediac area.

Based on common knowledge of the area, the bedrock aquifer has been successfully developed for private residential wells by a number of individuals over the general area. The general conditions found in the aquifer are suitable for water supply development. Local well drillers with knowledge of the area confirmed the potential for water supply development in terms of private wells. The near surface layers of sandstone may be soft and prone to caving in the well annulus resulting in the need for greater casing lengths than might normally be used.

<u>NBDELG Well Log Data:</u> A search of the NBDOE well log database for records located within a 250 m radius around the proposed development was carried out August 26, 2016 and the search yielded 13 well logs. A summary of the information contained in the well logs is provided in Table 1, immediately below.

 Table 1: Summary of hydrogeologic information derived from search of NBDOE well
 log database (250 meter search radius).

Well Depth (feet)	Estimated Yield (igpm)	Depth to Bedrock (feet)	Casing Length (feet)
Average: 86.5	Average: 19.5	Average: 7.2	Average: 41.4
Median: 77	Median: 12	Median: 7	Median: 30
Minimum: 32	Minimum: 5	Minimum: 0	Minimum: 20
Maximum: 200	Maximum: 100	Maximum: 18	Maximum: 137

As can be seen from the above information the average well in the area is approximately 86.5 feet deep with an estimated yield of approximately 19.5 igpm. As expected in any rock unit the yields are variable with a minimum yield of 5 igpm being estimated. Based on the average estimated safe yield of 19.5 igpm for the existing domestic wells, the relatively shallow depth of those wells (86.5 feet (26.4meters), the development of a water supply providing 4.7 igpm (31 m3/day) would appear to be a reasonable expectation. The higher the flow that can be developed from a production well without having undue effects on existing wells would result in lower storage requirements. Based on discussions with the well driller it is expected that a deeper freshwater aquifer is present in the area and higher yields are expected from that aquifer. <u>NBDELG Well Water Chemistry Data:</u> A search of the NBDELG well chemistry database for locations in a 250 m radius around the proposed development was carried out August 26, 2016 and the search yielded six inorganic chemistry records. The precise locations of the wells from which the ground water chemistry was obtained are not available due to right to privacy considerations for the property owners. These well chemistry analytical results are provided in Table 2, which follows. The average value of the measured result and the Canadian Drinking Water Quality Guideline (CDWQG) are included in the table for the purpose of comparison. Any parameter which exceeds the Canadian Drinking Water Quality Guideline is bolded and shaded for ease of recognition in the data table.

Out of the six chemistry records available, one well had an exceedence of the CDWQG for iron of 0.3 mg/L and the same well exceeded the CDWQG concentration for manganese of 0.05 mg/L. The guidelines for iron and/or manganese are based on esthetic considerations, not health. Iron and/or manganese can cause staining of plumbing fixtures and laundry. Iron and/or manganese can usually be readily removed by commercial water softeners at the hardness observed in this water or by filters. The presence of Iron and/or manganese in the groundwater from this aquifer is not uncommon and is commonly the result of natural conditions.

A single well out of the 10 samples in the dataset had an exceedance of the CDWQG for lead. The observed concentration was 151 µg/L compared to the CDWQG of 10 µg/L. Elevated concentrations of lead can be treated using distillation, reverse osmosis or

Table 2

CDWQG = Canadian Drinking Water Quality Guideline

NBDOE Groundwater Chemistry Database

Parameter	ALK_T (mg/L)	AI (mg/L)	As (µg/L)	B (mg/L)	Ba (mg/L)	Br (mg/L)	COND (µSIE/cm)	Ca (mg/L)	Cd (µg/L)
	117	0.025	2.2	0.024	0.159	0.1	321	9.33	0.5
	44.6	0.025	1.5	0.027	0.041	0.1	269	25.4	0.5
	68.2	0.025	1.5	0.01	0.128	0.1	207	26.3	0.5
	55.2	0.025	1.5	0.2	0.099	0.1	345	44.3	0.5
	64.4	0.025	1.61	0.014	0.127	0.143	230	25.9	0.5
	108	0.025	1.5	0.011	0.464	0.1	235	13.4	0.5
Mean	76.2	0.025	1.6	0.048	0.170	0.1	268	24.1	0.5
CDWQG			<10	<5.0	<1.0				<5.0

Parameter	CI (mg/L)	Cr (µg/L)	Cu (µg/L)	E_coli P/A (P/A)	F (mg/L)	Fe (mg/L)	HARD (mg/L)	K (mg/L)	Mg (mg/L)
	27.3	11	10	Ab	0.113	0.098	29	1.57	1.4
	38.1	10	16	Ab	0.1	0.047	80.8	1.3	4.2
	11.3	10	10	Ab	0.1	0.037	81.6	1.38	3.87
	65.4	10	28	Ab	0.1	0.3	128	0.703	4.27
	23.7	10	42	Ab	0.1	0.041	81.9	1.22	4.18
	6	10	10	Ab	0.1	0.436	37.6	1.05	1.01
Mean	28.6	10	19		0.10	0.160	73.2	1.20	3.16
CDWQG	<250	<50	<1000		<1.5	<0.3			

Parameter	Mn (mg/L)	NO2 (mg/L)	NO3 (mg/L)	NOX (mg/L)	Na (mg/L)	PH (pH)	Pb (µg/L)	SO4 (mg/L)	Sb (µg/L)
	0.043	0.05	0.05	0.05	57.7	8.43	2.1	6.83	1
	0.007	0.05	2.6	2.6	19.2	7.07	1	12.7	1
	0.048	0.05	0.37	0.42	9.98	8.23	1	14.7	1
	0.0062	0.05	2.9	2.9	14.5	8.01	151	9.66	1
	0.019	0.05	0.05	0.05	13.5	8.13	3.88	14.8	1
	0.104	0.05	0.05	0.05	35.7	8.33	1	5.86	1
Mean	0.038	0.05	1.00	1.01	25.10	8.03	26.7	10.76	1.00
CDWQG	<0.05	<10	<10	<10	<200	6.5-8.5	<10	<500	6

CDWQG = Canadian Drinking Water Quality Guideline

NBDOE Groundwater Chemistry Database

Parameter	Se (µg/L)	TC-P/A (P/A)	TURB (NTU)	TI (μg/L)	U (µg/L)	Zn (µg/L)	TDS (mg/L)
	1.5	Ab	0.89	1	0.5	5	175
	1.5	Ab	0.79	1	0.5	5	139
	1.5	Ab	0.3	1	0.5	6.5	111
	1.5	Ab	0.1	1		22	185
	1.5	Ab	0	1	0.5	19	122
	1.5	Ab	2.7	1	0.5	24	129
Mean	1.5		0.8	1	0.5	14	144
CDWQG			<1.0		<20	<5000	<500

specific filtering systems for drinking water which are available from plumbing contractors or water treatment specialists. Water containing elevated concentrations of lead should not be consumed; however, the water can be used for bathing or showering. The significant difference between the analytical result for lead in this sample (151 μ g/L) compared to the range of the analytical results for the other samples (1.0-3.8 μ g/L) and the relatively normal range for the other parameters for this sample suggests that the result of 151 μ g/L could be an error.

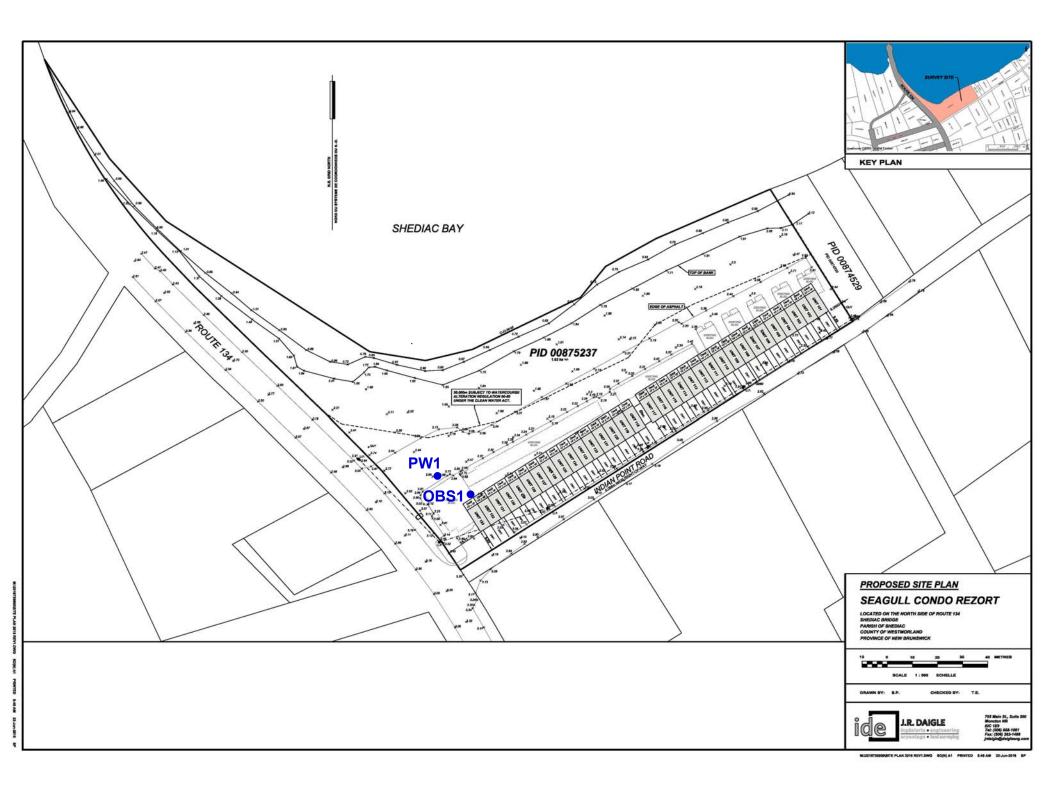
A total of one out of the six chemistry records available had elevated turbidity present in the samples. The elevated levels of turbidity may be related to the relative newness of the wells and they may not have had sufficient time, or use, to clear naturally. Most new wells clear naturally with time and use. At levels in excess of 5 NTUs turbidity may become noticeable to consumers and therefore, objectionable. The turbidity may be the result of elevated concentrations of iron and or manganese or the presence of particulate in the water. In either case, turbidity can be treated by water softeners and/or particulate filters.

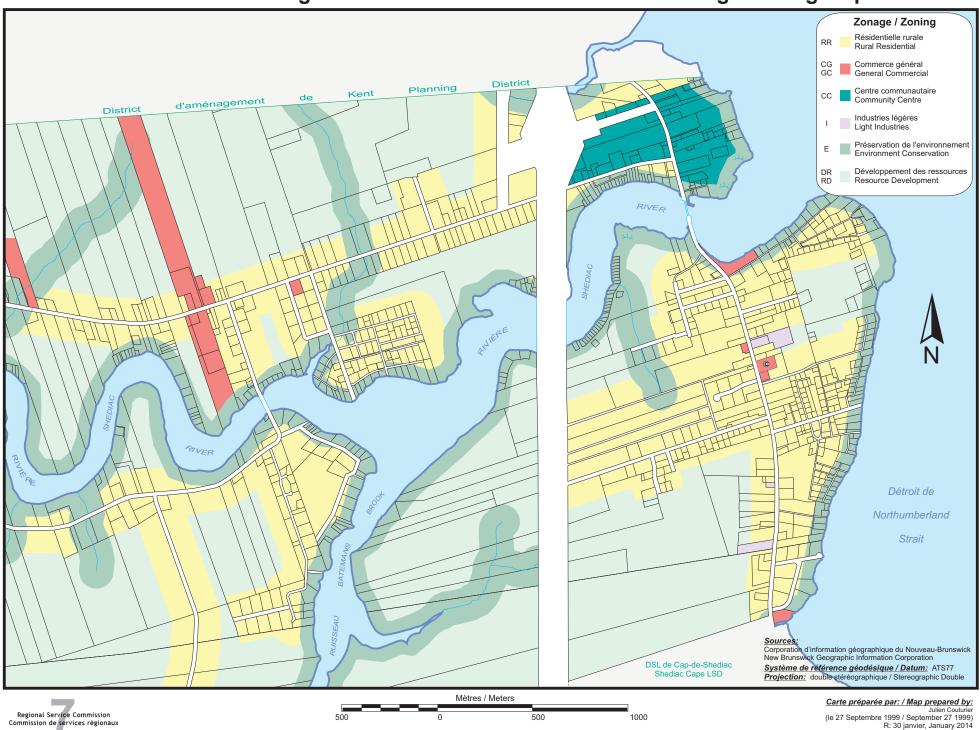
The observed water chemistries are of acceptable drinking water quality and can be considered to be typical of this bedrock unit. The elevated turbidity observed in a single well in the sample sets may be related to the newness of the wells and the fact that they have not been pumped sufficiently to clear the water Elevated turbidity values may also impact analytical results leading to overestimates of iron and manganese concentrations or other trace metals. Overall, the review of the inorganic ground water chemistry provided in the NBDOE water quality database for the area did not reveal or indicate significant problems with other water quality parameters.

- 6) Outline proposed hydrogeological testing and work schedule: It is proposed that a new production well be drilled, constructed and tested before the end of September. It is our intention to initiate the drilling program as soon as possible, pending approval of the Step One Application. The new production well will be drilled into the deeper fresh water aquifer and the surface aquifer cased off. An existing surface aquifer well on site will be used as an observation well if such a well can be located and accessed. In the event that an existing well cannot be located and accessed an observation well will be drilled. The rational for having the observation well in the surface aquifer is that the majority of the existing private wells adjacent to the site are probably developed in the shallow aquifer. Pump testing of the production well would be carried out as soon as possible, contingent on acceptable weather conditions. The report would be submitted to New Brunswick Department of the Environment within two weeks of the completion of the pump test.
- 7) Identify any existing pollution or contamination hazards within a (minimum) 500 m radius of the proposed drill targets. If groundwater use problems (quantity or quality) have occurred in the past, then these should be identified. Historical land use that might pose a contamination hazard (i.e. tannery, industrial, disposal, etc.) should also be discussed. There is an existing septic system on site that will be decommissioned and a new septic field constructed. The shallow aquifer will be cased off to minimize

potential interference and this will also isolate the water source aquifer from the new septic field.

- 8) Identify any groundwater use problems (quantity or quality) that have occurred in the area. No systematic groundwater use problems are known for this area. Salt water intrusion is possible.
- 9) Identify any watercourse(s) (stream, brook, river, wetland, etc.) within 60 m of the proposed drill targets. The Shediac River Harbour is located approximately 45 meters northeast of the proposed drill target.
- 10) Identify site supervisory personnel involved in the source development (municipal officials, consultants and drillers: Mr. Doug Craig (Craig Hydrogeologic Inc., 506-659-3064) and Mr. Jacques LeBlanc, (Eastern Well Drillers, 506 532 9797).
- 11) Figure 1 (site plan): Please See Attached.
- 12) Figure 2 (land use/zoning map): A copy of a zoning map is attached to this Application.





B-2 Carte de zonage de Pont-de-Shédiac / B-2 Shediac Bridge Zoning Map

Well Depth (Feet)	Estimated Yield (igpm)	—	Casing Length (Feet)
137	100	4	112
87	24	6	30
40	8	18	20
32	5	7	20
120	12	10	23
63	5	10	21
42	5	8	20
80	15	0	30
100	15	0	40
77	10	7	32
77	10	16	33
70	25	3	20
200	20	4	137
Well	Estimated	Denth to	Casing
Depth	Yield	_	Length
(Feet)	(igpm)	(Feet)	(Feet)
77	12	7	30
86.5	19.5	7.2	41.4
200	100	18	137
32	5	0	20

Median

average

13

max

min

count

250 meter radius around PID 00875237



Well Driller's Report

Date printed 2016/08/26

Drilled b	су									
Well Us	e			Work	Туре	Drill Method	t		Wor	k Complete
Drinkin	g Water,	, Domest	ic	New	Nell	Rotary			09	9/30/2002
	Casing	Informat	tion		Casing ab	ove ground 2ft		Driv	ve Shoe Used?	Yes
	Casing	morma						DIN		100
	Well Log	Casing T	уре	D	ameter	From	End	SI	otted?	
	1616	Steel		6	inch	Oft	112ft			
Aquifer	r Test/Yi	eld					Es	timated		
Method		Initial V Level (I		Pumping Rate	Duration	Final Water Level (BTC)		fe Yield	Flowing Well?	Rate
Air		Of	t	100 igpm	1hr	10ft	10	0 igpm	No	0 igpi
Well Gro	outing			D	rilling Fluids	Used	Disinf	ectant	Pump In	stalled
Т	There is no	o Grout inf	ormatio	N	one		N/A		N/A Intake Sett	tina (BTC)
							Qty	0 ig	Oft	3()
Driller's	Log								Overall Well	Depth
Well Log	From	End	Colo	our		Rock Type			137ft	
1616	Oft	4ft	EMPT	Y VALUE		Overburden			Bedrock Leve	
1616	4ft	46ft	Light I	orown		Sandstone			Oft	, i
1616	46ft	82ft	Grey			Sandstone			on	
1616	82ft	98ft	Soft b			Sandstone				
1616 1616	98ft 104ft	104ft 106ft	Brown			Sandstone Shale				
1616	104ft	136ft	Brown			Sandstone				
				əd		Clay				

Water Be	earing Fra	cture Zone
Well Log	Depth	Rate
1616	28ft	5 igpm
1616	72ft	1 igpm
1616	82ft	1 igpm
1616	109ft	7 igpm
1616	125ft	100 igpm

Setbacks	
	There is no Setback information.



Date pri	inted	2016/08	8/26										
Drilled I	by												
Well Us	se			Work	Туре		Drill Metho	d			Work	Comp	leted
Drinkin	ng Water	r, Domest	tic	New			Cable Too	I				09/200	
	Casing	Information	tion		Cas	sing abo	ve ground 2ft		Driv	/e Sho	be Used? \	/es	
	Well Log	g Casing T	уре	D	iametei	r	From	End	Sl	otted?			
	8797	Steel		6	inch		Oft	30ft					
Aquife	r Test/Y	ield						Fet	imated				
-		Initial V	Vater	Pumping)		Final Wate		e Yield		Flowing		
Method	I	Level (I		Rate		uration	Level (BTC				Well?	I	Rate
Bailer		22	,	24 igpm		1hr	40ft	24	igpm		No	0	igpm
		(BTC -	Below top	of casina)									
Well Gr	outing			D	Drilling I	Fluids U	sed	Disinfe	ectant		Pump Inst	alled	
-	Thoro io n	o Grout in	formation	N	lone			Other			Submersi	ible	
	inere is n	o Grout III	Iomation	•							Intake Settin	g (BTC)	
								Qty	0 ig		Oft		
Driller's	Log									Over	all Well De	enth	
Well Log	From	End	Colou	r		F	Rock Type			87ft			
8797	Oft	3ft	Brown			F	=111			Bedr	ock Level		
8797	3ft	6ft	Red				Clay			Oft			
8797	6ft	22ft	Brown				Medium Sandstor			••••			
8797	22ft	87ft	Brown				Medium Sandstor	e					
Water E	Bearing	Fracture	Zone		Setba	acks							
	Danth		Poto		\A/~II_I	D	interner (

Well Log	Depth	Rate
8797	60ft	8 igpm
8797	80ft	24 igpm

Setbacks	;	
Well Log	Distance	Setback From
8797	65ft	Septic Tank
8797	75ft	Leach Field
8797	100ft	Right of any Public Way Road



Date pri	nted	2016/08	8/26										
Drilled b	у												
Well Us	е			Work	кТуре	Drill	Method	ł			Work	Complet	ed
Drinkin	g Water,	Domest	tic	New	Well	Cab	le Tool				09	/25/2004	
	Casing	Informa	tion		Casing a	bove grou	nd 1ft		Driv	/e Sho	e Used? `	Yes	
	Well Log	Casing T	уре	[Diameter	Fr	om	End	Sl	otted?			
	10352	Steel		6	inch	Of		20ft					
Aquifer	Test/Yi	eld						Fo	timated				
Method		Initial V Level (Pumping Rate	g Duratic		l Water I (BTC)		fe Yield		lowing Well?	Ra	ite
Bailer		8f	,	50 igpm of casina)	n Ohr		8ft	8	igpm		No	0 ig	pm
Well Gro	outing				Drilling Fluids	Used		Disinf	ectant		Pump Ins	talled	
Т	here is no	Grout in	formation	N	None			Bleac	h (Javex	•)	N/A Intake Settir	ng (BTC)	
								Qty	0 ig	:	32ft		
Driller's	Log									Over	all Well D	epth	
Well Log	From	End	Colou	r		Rock Typ	e			40ft			
10352	Oft	2ft	Brown			Topsoil				Bedro	ock Level		
	2ft	18ft	Brown			Sand				Oft			
10352	18ft	40ft	Brown			Fine Sand	Istone			on			
Water B	earing F	racture	Zone		Setbacks								
Well Log	Depth		Rate		Well Log	Distance	S	etback	From				
10352	37ft		50 igpm		10352	60ft		eptic Ta					
					10352	80ft	Le	each Fi	eld				



Date pri	nted	2016/08/26							
Drilled b	•								.
Well Us	-	Demestic		k Type	Drill Meth	nod			
Drinkin	g water,	Domestic	New	v Well	Rotary			06/1	10/2008
	Casing	Information		Casing a	bove ground 1f	t	Drive	Shoe Used? Y	es
	Well Log	Casing Type		Diameter	From	End	Slot	ted?	
	13895	Steel		6 inch	Oft	20ft			
Aquifer	Test/Yi	əld				Estim	ated		
Method		Initial Water Level (BTC)	Pumpir Rate		Final Wat n Level (BT	ouic	Yield	Flowing Well?	Rate
		5ft (BTC - Below to	75 igpi op of casing)		5ft	5 ig	pm	No	0 igpm
Well Gro	outing]	1		Disinfec	tant	Pump Insta	allad
	5	Grout information		Drilling Fluids None	SUSED	Bleach (N/A Intake Setting	
						Qty 0	ig	Oft	J (D1C)
Driller's	Log							Overall Well De	nth
Well Log	From	End Col	our		Rock Type			32ft	pui
13895	Oft	2ft Brow	n		Topsoil			Bedrock Level	
13895	2ft	7ft Brow			Fill			7ft	
13895	7ft	32ft Brow	n		Fine Sandstone)		-	
Water B	earing F	racture Zone		Setbacks					
Well Log	Depth	Rate		Well Log	Distance	Setback Fro	om		
13895	25ft	15 igpm		13895	100ft	Septic Tank			
13895	30ft	60 igpm		13895	110ft	Leach Field			
				13895	200ft	Right of any	Public \	Way Road	



Well Driller's Report

Date pri	nted	2016/0	8/26										
Drilled b	ру												
Well Us	e			Work	Туре		Drill Metho	bd			Work	Comp	leted
Drinkin	g Water,	Domes	tic	New Well			Rotary				10/	/29/20	09
	Casing	Informa	ition		Casing	g abov	e ground 2ft		Driv	e Shc	be Used? `	Yes	
	Well Log	Casing 7		C	liameter		From	End	Slo	otted?			1
	24058	Steel	.,		inch		Oft	23ft					
Aquifer	· Test/Yie	əld						Fa	stimated				
		Initial \		Pumping Rate			Final Wate	r Sa	afe Yield	I	Flowing Well?		- /
Method		Level (. ,		Dura		Level (BTC						Rate
Air		5 - BTC)	ft Below top o	12 igpm of casing)	n 1h	r	5ft	1:	2 igpm		No	0	igpm
Nell Gro	outing			C	Drilling Flui	ids Us	ed	Disin	fectant		Pump Ins	talled	
Т	here is no	Grout in	formation		lone			Chlor	ine Puck	-	N/A Intake Settir	ng (BTC)
								Qty	0 ig		Oft	5.	,
Driller's	Log									Over	all Well D	enth	
Vell Log	From	End	Coloui	•		Ro	ock Type			120ft		opui	
24058	Oft	10ft	Brown			0\	verburden			Bedr	ock Level		
24058	10ft	25ft	Grey			Sc	oft Sandstone			Oft			
24058	25ft	44ft	Grey				andstone			011			
4058	44ft	56ft	Brown				ay and Shale						
4058	56ft 68ft	68ft 84ft	Dark gre Brown	y			andstone ay and Shale						
4058	84ft	110ft	Grey				andstone						
24058	110ft	120ft	Brown				ay and Shale						
			-										
Nater B	earing F	racture	Zone		Setback	S]
Well Log	Depth		Rate		Well Log	Dis	tance	Setback	From				1
24058	12ft		10 igpm		24058	52ft	t	Right of	any Public	Way F	Road		1
24058	25ft		6 igpm		24058	75ft	1	Septic Ta	ank]
24058	31ft		6 igpm		24058	80fi	t	Leach Fi	eld				



Date pri	inted	2016/08	8/26									
Drilled b	ру											
Well Us	se			Wor	к Туре	Drill I	Method	l		V	Vork Com	pleted
Drinking Water, Domestic Ne			New	/ Well	Rota	ry				04/05/20	010	
	Casing	Informa	tion		Casing a	above grour	d 1ft 6	in	Driv	e Shoe Us	ed? Yes	
	Well Log	Casing T	уре		Diameter	Fro	m	End	Slo	otted?		
	24806	Steel			6 inch	Oft		21ft				
Aquife	r Test/Yi	eld						Est	imated			
Method		Initial V Level (Pumpir Rate	ng Duratio		Water (BTC)	-	e Yield	Flowir Well		Rate
Air		8f	t	25 igpr	m Ohr	8	ft	5	igpm	No	() igpm
		(BTC -	Below top	of casina)					0.			01
Well Gr	outing				Drilling Fluid	s Used		Disinf	ectant	•	o Installed	
Т	There is no	Grout in	formation		None			Bleach	n (Javex	/	nersible Setting (BTC	C)
								Qty	0 ig	40ft		
Driller's	Log									Overall We	ell Depth	
Well Log	From	End	Colou	r		Rock Type	9			63ft		
24806	Oft	3ft	Brown			Topsoil				Bedrock L	evel	
24806	3ft	10ft	Brown			Fill				Oft	0101	
24806	10ft	30ft	Brown			Medium Sa				011		
24806 24806	30ft 45ft	45ft 63ft	Grey			Medium Sa Fine Sands						
24000	4311	0311	Brown				stone					
Water B	Bearing F	racture	Zone		Setbacks				J			7
Well Log	Depth		Rate		Well Log	Distance	Se	etback	From			
24806	45ft		4 igpm		24806	60ft	Se	eptic Ta	nk			1
24806	60ft		21 igpm		24806	85ft		each Fie				
					24806	70ft	Ri	ght of a	ny Public	: Way Road		



Date pri	nted	2016/08	8/26										
Drilled b	у												
Well Us	е			Worl	к Туре		Drill Metho	d			Work	Compl	leted
Drinkin	g Water,	Domest	ic	New	Well		Rotary				07/	28/200)9
	Casing	Informat	ion		Casing	above	e ground 1ft (6in	Driv	ve Sho	be Used? Y	/es	
	Well Log	Casing Ty	ype	[Diameter		From	End	Slo	otted?			
	27199	Steel		6	6 inch		Oft	20ft					
Aquifer	Test/Yie	eld						E	stimated				
Method		Initial W Level (E		Pumpin Rate	g Durati	ion	Final Water Level (BTC	S	afe Yield	I	Flowing Well?	F	Rate
Air		7ft	,	30 igpn of casing)			7ft		5 igpm		No		igpm
Well Gro	outina				Drilling Fluid	ls Use	èd	Disir	nfectant		Pump Inst	alled	
	5	Grout inf	ormation		None			Chlo	rine Puck	S	N/A Intake Settin		
								Qty	0 ig		Oft	5	
Driller's	Log									Over	all Well De	onth	
Well Log	From	End	Colou	r		Ro	ck Type			42ft		spin	
27199	Oft	3ft	Brown			То	osoil			Bedr	ock Level		
	3ft	8ft	Brown			Fill				Oft			
27199	8ft	42ft	Brown			Fin	e Sandstone						
Water B	earing F	racture	Zone		Setbacks	6]				
Well Log	Depth		Rate		Well Log	Dist	ance	Sethac	k From				
27199	38ft		30 igpm		27199	60ft		Septic 1					
					27199	80ft		.each F					
					27199	75ft	F	Right of	any Public	: Way F	Road		



Well Driller's Report

Date pri	inted	2016/0)8/26										
Drilled b	•												
Well Use			к Туре	II Method	ł				Comple				
Drinking Water, Domestic Ne			New	Well	Ro	tary				12/	09/2015	5	
	Casing	Informa	ation		Casing	above gro	und 2ft		Driv	ve Sho	be Used? \	res	
	Well Log	Casing	Туре		Diameter	F	rom	End	Slo	otted?			
	39480	Steel			6 inch	(ft	30ft					
Aquife	r Test/Yi	eld						Fstir	mated				
Method		Initial Level		Pumpin Rate	g Durati	-	al Water el (BTC)	Safe	e Yield	ł	Flowing Well?	R	ate
Air			′ft - Below top	15 igpr of casina)	n 1hr		7ft	15 i	igpm		No	0 iç	gpm
Well Gr	outing				Drilling Fluid	s Used		Disinfe			Pump Inst	talled	
T	There is no	o Grout ir	nformation		None			Chlorin	e pelle		N/A Intake Settin	g (BTC)	
								Qty	0 ig		Oft		
Driller's	Log									Over	all Well De	onth	
Well Log	From	End	Colou	r		Rock T	/pe			80ft		spin	
39480	Oft	6ft	Brown			Shale				Bedr	ock Level		
39480	6ft	52ft	Grey			Sandsto	ne			Oft			
39480	52ft	53ft	Brown			Shale				011			
39480 39480	53ft 64ft	64ft 80ft	Grey Brown			Sandsto Shale	ne						
33400	0411	0011	BIOWII			Shale							
Water B	Bearing F	racture	e Zone		Setbacks]				
Well Log	Depth		Rate		Well Log	Distance	S	etback F	rom				
39480	22ft		1 igpm		39480	120ft		eptic Tan					
39480	26ft		6 igpm		39480	80ft		each Field					
39480	39ft		15 igpm		39480	75ft	R	ight of an	y Public	: Way F	Road		
					39480	85ft	С	enter of re	oad				



Date printed	2016/08/26						
Drilled by							
Well Use		Worl	k Type	Drill Method	ł	Work	Completed
Drinking Water,	Domestic	New	Well (NEW	Rotary (RC	09	/13/1997	
		WEL	_L)				
Casing	Information		Casing abo	ove ground Oft	D	vrive Shoe Used?	Yes
Well Log	Casing Type	I	Diameter	From	End	Slotted?	
91065500	Steel	(6 inch	Oft	40ft		
Aquifer Test/Yie	eld				Estimate	ed	
	Initial Water	Pumpin	-	Final Water	Safe Yie		
Method	Level (BTC)	Rate	Duration	Level (BTC)		Well?	Rate
Air	15ft (BTC - Below tor	15 igpn of casing)	n 1hr	40ft	15 igpn	n No	0 igpm
Well Grouting			Drilling Fluids L	Jsed	Disinfectan		
There is no	Grout informatio		None		N/A	Submers	
					Qty 0 ig	Intake Settin	ng (BTC)
					Giy Ulg	85ft	
Driller's Log						Overall Well D	epth
Well Log From	End Colo	ur		Rock Type		100ft	
91065500 Oft	15ft Brown			Sandstone		Bedrock Level	
91065500 15ft	100ft Grey			Sandstone		Oft	
Water Bearing F	racture Zone		Setbacks				
Well Log Depth	Rate			There is no §	Setback infor	mation.	
91065500 90ft	15 igpm						



Date prir	nted	2016/08	8/26									
Drilled by Well Use Drinking	9	Domest	ic	Nev	rk Type v Well (NEW LL)		vlethod ry (ROT	ARY)			Comple /05/1999	
	Casing	Informat	tion		Casing a	above groun	d 2ft		Drive Sh	noe Used? `	Yes	
F	Well Log 91379700		уре		Diameter 6 inch	Fro Oft		End 32ft	Slotted	?		
Aquifer Method Air	Test/Yie	Initial V Level (I Of	BTC)	Pumpir Rate 10 igp	Duration m 1hr		Water (BTC) 2ft	Estima Safe Y 10 igp	ield	Flowing Well? No		ate gpm
Well Gro Tł		Grout inf	ormation		Drilling Fluid None	s Used	Ν	Disinfecta I/A Qty 0 i		Pump Inst N/A Intake Settin Oft		
Driller's L Well Log	_O <u>g</u> From	End	Colou	r		Rock Type	9		Ove	erall Well De	epth	
91379700 (91379700) 91379700) 91379700) 91379700) 91379700) 91379700)	7ft 14ft 21ft 28ft 29ft	7ft 14ft 21ft 28ft 29ft 75ft 77ft	EMPTY Brown Grey Brown EMPTY Grey Brown			Overburder Sandstone Sandstone Sandstone Magnease Sandstone Clay and S			Bec Oft	łrock Level		
Water Be	earing F	racture	Zone		Setbacks							
Well Log 91379700 91379700	Depth 36ft 70ft		Rate 6 igpm 4 igpm			There	is no Se	tback info	ormation.			



Well Driller's Report

Date prii	nted	2016/08	8/26									
Drilled b	•				. T	_		1			Marta O	
Well Use Drinking	e g Water,	Domest	ic	Work TypeDrill MethoNew Well (NEWCable Too					BLE TO		ork Completed 04/27/1999	
				WEL	.L)							
	Casing	Informat	tion		С	asing abo	ove ground 1ft		Driv	ve Sho	be Used? Ye	s
	Well Log	Casing T	уре		Diame	ter	From	En	d Sl	otted?		
	91460200	Steel		6	6 inch		Oft	331	ft			
Aquifer	Test/Yie	əld						F	Estimated			
Method		Initial V Level (I		Pumping Rate	-	Duration	Final Wate Level (BTC	er g	Safe Yield		Flowing Well?	Rate
Bailer		10	ft	10 igpm of casing)	ſ	1hr	30ft		10 igpm		No	0 igpm
Well Gro	outing				Drilling	g Fluids U	lsed	Dis	infectant		Pump Instal	led
	here is no	Grout in	formatior	N	None	9		N/A			N/A Intake Setting (BTC)
								Qty	o ig		65ft	- /
Driller's	Log									Over	all Well Dept	th
Well Log	From	End	Colou	ır			Rock Type			77ft		
91460200	Oft	16ft	Brown				Clay and Sand			Bedr	ock Level	
91460200		22ft	Brown				Soft Sandstone			16ft		
91460200 91460200		43ft 70ft	Brown Grey				Hard Sandstone Sandstone					
91460200		77ft		VALUE			Hard Clay					
Water B	earing F	racture	Zone		Set	backs						
Well Log	Depth		Rate				There is no	Setba	ack informa	ation.		
91460200	25ft		3 igpm]								
91460200	70ft		10 igpm									



Well Driller's Report

Date printed	2016/08	3/26									
Drilled by											
Well Use			Worl	к Туре		Drill Method	ł			Work Co	ompleted
Drinking Wat	ter, Domest	ic	New	Well (N	EW	Rotary (RO	TARY	()		06/03	8/1999
			WEL	.L)							
Casir	ng Informat	ion		Casi	ing abov	e ground 2ft		Driv	ve Shoe l	Jsed? Yes	s
Well Log Casing Type			Diameter		From	End	SI	otted?			
914716	600 Steel		(inch		Oft	20ft				
Aquifer Test	/Yield						Га	timated			
Method	Initial V Level (I		Pumpin Rate	-	iration	Final Water Level (BTC)		ife Yield		wing ell?	Rate
Air	Of	t	25 igpn	า	1hr	10ft	2	5 igpm	Ν	lo	0 igpm
	(BTC -	Below tor	o of casina)								
Well Grouting	1		[Drilling F	luids Us	sed	Disin	fectant	Pu	mp Install	led
Thoroic	s no Grout inf	ormatio		None			N/A			bmersibl	-
There is		onnatio					-		Inta	ike Setting (BTC)
							Qty	0 ig	Oft		
Driller's Log									Overall	Well Dept	łh
Well Log From	n End	Colo	our		R	ock Type			70ft	weii Depi	
91471600 Oft	3ft	EMPT	Y VALUE		0	verburden			Bedrock		
91471600 3ft	19ft	Grey			_	oft Sandstone			Oft	Levei	
91471600 19ft	30ft	Brown	1		S	hale Stone			on		
91471600 30ft	66ft	Grey			_	andstone					
91471600 66ft	70ft	Brown	1		С	lay and Shale					
Water Bearing	a Fracture	Zone		Setba	cks						
		Rate				Thora is as (Cothool	informa	tion		
Well Log Dep		Nale				There is no S	bernaci	x iniorina			

91471600 27ft 25 igpm



Well Driller's Report

Date pri	nted	2016/08	8/26									
Drilled b Well Us Drinkin	•	Domesti	c		k Type [,] Well		Drill Method Rotary			W	ork Com 12/19/20	
	Casing	Informati	ion		Cas	ing abov	ve ground 2ft		Driv	e Shoe Use	d? Yes]
	Well Log 92070400	Casing Ty Steel	/pe		Diameter 6 inch		From Oft	End 137ft	Slo	otted?		
Aquifer Method Air	Test/Yie	Initial W Level (B Oft	BTC)	Pumpin Rate 20 igpn of casina)	Du	uration 1hr	Final Water Level (BTC) 43ft	Sa	timated fe Yield) igpm	Flowing Well? No	5	Rate) igpm
Well Gro T	Outing There is no	Grout info	ormatior		Drilling F None	luids Us	sed	Disinf N/A Qty	ectant 0 ig	N/A	Installed	C)
Driller's Well Log 92070400 92070400 92070400 92070400 92070400 92070400 92070400 92070400 92070400 92070400 92070400	From 0ft 4ft 35ft 38ft 43ft 62ft 109ft 122ft 126ft 135ft 165ft	End 4ft 35ft 38ft 43ft 62ft 109ft 122ft 126ft 135ft 165ft 196ft 200ft	Colou EMPT Brown Brown Grey Brown Grey Brown Brown Brown Brown Brown	<u>ויר</u> YVALUE		S S S C C S C S S S S S S S S S S S S S	and andstone oft Clay andstone andstone lay and Shale andstone ilay and Shale andstone ilay and Shale andstone ilay and Shale andstone ilay and Shale andstone ilay			Overall Wel 200ft Bedrock Le 0ft	·	

Water Bearing Fracture Zone

Well Log	Depth	Rate
92070400	20ft	35 igpm
92070400	177ft	20 igpm

Setbacks

There is no Setback information.

Appendix E

Wetland Map



Seagull Condo Resort

Wetland Map



DATE:	2016/08/30	FILE: SCR-16-01
SCALE:	As shown	FIGURE: Appendix E

Appendix F

Site Photographs



Existing property entrance



View of Shediac Bay

Environmental Impact Assessment

Seagull Condo Resort

Site Photographs



DATE:	2016/07/27	FILE: SCR-16-01
SCALE:		FIGURE: Appendix F-1



Existing buildings on western side of property



Existing buildings on eastern side of property

Seagull Condo Resort

Site Photographs



DATE:	2016/07/27	FILE: SCR-16-01
SCALE:		FIGURE: Appendix F-2

Existing buildings on eastern side of property

Environmental Services Inc. 2492 Route 640, Hanwell, NB, E3E 2C2 ph: (506) 455 1085, fax (506) 455 1088

DATE: 20	16/07/27	FILE: SCR -16-01
SCALE:		FIGURE: Appendix F-3

Environmental Impact Assessment

Seagull Condo Resort

Site Photographs taken on May 31, 2016







Existing buildings on western side of property

Existing effluent disposal field Appendix G

Historical Aerial Photographs



Seagull Condo Resort

Historical Aerial Photo - 1976



DATE:	FILE:
2016/09/01	SCR-16-01
SCALE: NTS	FIGURE: Appendix G-4



Seagull Condo Resort

Historical Aerial Photo - 2011



DATE: 2016/09/01	FILE: SCR-16-01
SCALE: NTS	FIGURE: Appendix G-1



Seagull Condo Resort

Historical Aerial Photo - 2001



DATE: 2016/09/0	FILE: 01 SCR-16-01
SCALE: NTS	FIGURE: Appendix G-2



Seagull Condo Resort

Historical Aerial Photo - 1963



DATE:	FILE:
2016/09/01	SCR-16-01
SCALE: NTS	FIGURE: Appendix G-5



Seagull Condo Resort

Historical Aerial Photo - 1954



DATE:	FILE:	
2016/09/01	SCR-16-01	
SCALE: NTS	FIGURE: Appendix G-6	



Seagull Condo Resort

Historical Aerial Photo - 1944



DATE: 2016/09/01	FILE: SCR-16-01
SCALE: NTS	FIGURE: Appendix G-7



Seagull Condo Resort

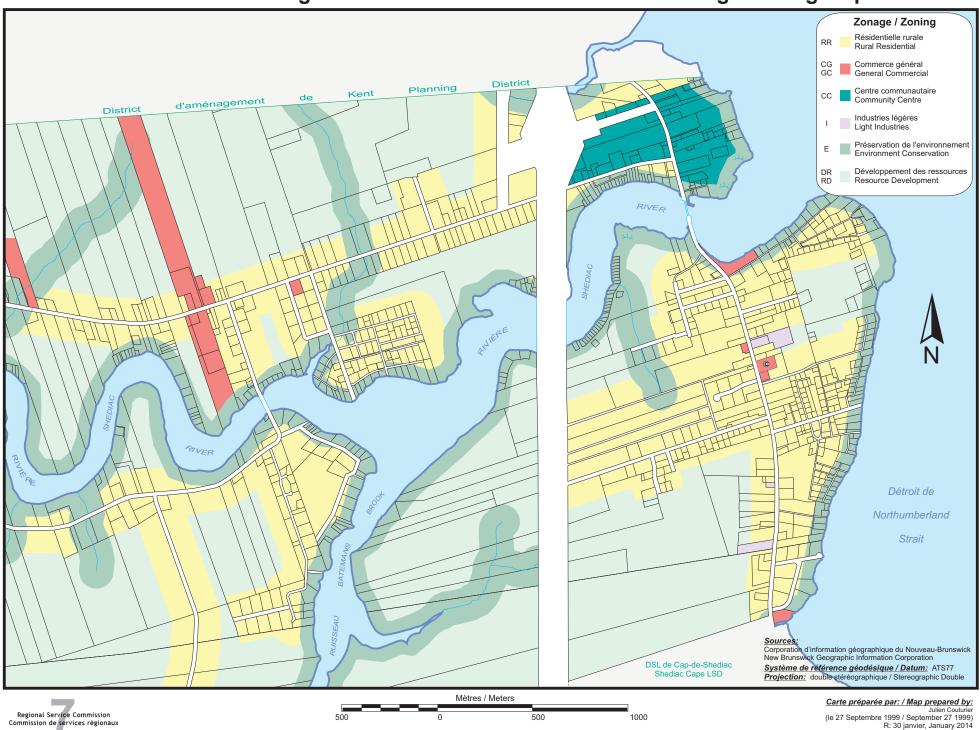
Historical Aerial Photo - 1982



DATE: 2016/09/01	FILE: SCR-16-01
SCALE: NTS	FIGURE: Appendix G-3

Appendix H

Zoning map



B-2 Carte de zonage de Pont-de-Shédiac / B-2 Shediac Bridge Zoning Map

Appendix I

Public consultation - draft documents



September 2, 2016

Re: Public Involvement in Environmental Impact Assessment

Dear property owner:

The new owner of the Seagull Motel and Chalets is planning to replace the existing buildings with a new condominium. This development (so called "undertaking") is undergoing a routine provincial Environmental Impact Assessment (EIA) registration, as outlined in Section 5 (1) and Schedule "A" of the Environmental Impact Assessment Regulation. As part of the EIA registration, the developer is required to inform local interest groups and neighbours of the planned development. The consultation and the EIA registration are being handled by NATECH Environmental Services Inc.

The purpose of the proposed undertaking is to create quality housing that will attract new residents and seasonal tourists to the area. As part of the upgrade, a new well will be drilled, and a state-of-the-art wastewater treatment and disposal system will be installed. The treated effluent will be infiltrated into the ground via a disposal field.

The EIA Registration document is available for public review at the Shediac Municipal Office, at the Beaubassin Planning Commission's Office, and at the Department of Environment, Sustainable Development, Planning and Impact Evaluation Branch, 3rd floor, 20 McGloin Street, Fredericton, NB.

If you have any concerns or questions about the project, we would ask you to contact Mr. Jochen Schroer with NATECH Environmental Services Inc. (506-455-1085, jochen.s@natechenv.com), or Ms. Lee Swanson with the New Brunswick Department of Environment and Local Government (506-444-5382), before October 5, 2016. Thank you for your interest and cooperation.

Best regards,

Jochen Schroer, M.Eng., P.Eng. President

NOTICE

Registration of Undertaking Environmental Impact Assessment Registration Clean Environment Act Opportunity for Public Comment

On September 2, 2016, CG Group Ltd.registered the following project with the Department of the Environment in accordance with Section 5 (1) and Schedule "A" of the Environmental Impact Assessment Regulation: Seagull Condo Resort.

The purpose of the proposed undertaking is to to create quality housing that will attract new residents and possibly seasonal tourists to the area. The project is located at the intersection of Route 134 and Chemin Indian Point in Shediac Bridge.

The proponent's registration document can be examined at the Shediac Municipal Office, at the Beaubassin Planning Commission's Office, and at the Department of Environment, Sustainable Development, Planning and Impact Evaluation Branch, 3rd floor, 20 McGloin Street, Fredericton, NB.

Any comments should be submitted directly to the proponent at:

CG Group Ltd., 281 St-George St, PO, Box 272, Moncton, N.B., E1C 8K9.

On or before October 5, 2016.

Additional information about the public involvement process is available at: http://www.gnb.ca/0009/0377/0002/index-e.asp

Notice placed by: Mr. Philip Couture, proprietor