

December 22, 2022 File: PH4560-LET.01

417 Auto Sales – Neil Chada 2026 Carp Road Ottawa (Carp), Ontario K0A 1L0

Subject:

Hydrogeological Brief and Assessment of an Existing Sewage System Proposed Change of Use 2026 Carp Road Ottawa (Carp), Ontario Consulting Engineers

9 Auriga Drive Ottawa, Ontario K2E 7T9 Tel: (613) 226-7381

Geotechnical Engineering Environmental Engineering Hydrogeology Materials Testing Building Science Rural Development Design Retaining Wall Design Noise and Vibration Studies

patersongroup.ca

Dear Neil,

Paterson Group Inc. (Paterson) was retained by Neil Chada of 417 Auto Sales to carry out an assessment of the existing private sewage system which services the existing building located at 2026 Carp Road, Ottawa (Carp), Ontario. The private sewage system assessment was required as per discussions Paterson had with the City Hydrogeologists. During those discussions, it was determined that a Hydrogeological Assessment and Terrain Analysis would not be required should the subject site be able to demonstrate Reasonable Use, at which point, a sewage system assessment will be required.

The Site Plan application is for the conversion of the existing approximately 81 m² (GeoOttawa) residential building into a commercial office building. No new fixtures will be added. Three (3) to five (5) employees are proposed to occupy the site for a standard 8 hour shift per day. Washroom access will be limited to employees only.

Hydrogeological Pre-consultation

During discussions with the City of Ottawa (City) Hydrogeologists on May 30, 2022, the City Hydrogeologist indicated that since the site is municipally serviced with municipal water services, that a Hydrogeological Assessment will not be required. They indicated that if the proposed septic flows are increasing compared to the existing, or if there will be reduced infiltration for septic dilution due to an increase in permeable surface, then a septic impact assessment should be included. However, as the site is municipally serviced with water, if it can be confirmed that none of the lots in the area rely on private wells and there are no sensitive features, then an impact assessment would not be required based on reasonable use. Additionally, should the lots that are privately serviced in the area be upgradient of the subject site, then an impact assessment will not be required.

Ottawa





The City provided a plan of lots which are municipally serviced within 500 m of the subject site. The map has been attached to this report.

HYDROGEOLOGICAL BRIEF

Groundwater Flow Direction

The overburden groundwater flow direction is anticipated to be towards the northeast towards Feedmill Creek which then flows north into the Carp River.

The subject site is mapped to be in an area where the surface elevation is consistently dropping from southwest to northeast, (i.e. from Carp road to the northeast). The City of Ottawa and MECP Feedmill Creek Flood Risk Map attached to this report show the topographic contours of the area. The field visits completed by Paterson as part of the septic system investigation generally corroborated the available mapping.

Surrounding Privately Serviced Water Supply

According to the municipal water servicing mapping provided by the City, the only property recorded to not have municipal water servicing is 1016 Carp Road. Paterson was able to contact 1016 Carp Road and received confirmation that they are on a drilled well supply.

Reasonable Use

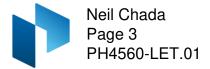
As the overburden groundwater flow direction is anticipated to be towards the northeast (Feedmill Creek), and the ground surface on the subject site and surrounding properties slopes downhill towards the northeast, the drilled potable supply well at 1016 Carp Road is considered cross gradient and therefore isolated from potential onsite septic impacts. Due to the lack of any downgradient sensitive receivers, a Septic Impact Assessment is not required as part of the Site Plan application.

SEWAGE SYSTEM ASSESMENT AND SIZING REVIEW

The purpose of this assessment has been to provide an opinion as to whether the existing sewage system is presently functioning adequately and to determine if the capacity of the existing sewage system is suitable to support the proposed change of use.

File Search

A file search was completed with the Ottawa Septic System Office. The search resulted in the Township of West Carleton building permit approval and completion No. 00-0541, which was a replacement to the original sewage system. The system was designed to



support a dwelling consisting of 2 bedrooms, having a fixture unit count of 9.0 and a finished floor area of less than 200 m² resulting in a total daily design sewage system flow (TDDSSF) of 1,100 L/day. The system consists of a 3,600 L septic tank and the leaching bed area consists of 4 runs of 11 m resulting in a total length of 44 m with a sand area of 110 m² of sand (buried in native soil with a percolation rate of 8 min/cm).

Fieldwork Program

A member of our hydrogeological staff visited the subject site on November 8, 2022. The purpose of this visit had been to carry out a field investigation to assess the condition of the existing sewage system. The fieldwork program consisted of a cursory inspection of the site conditions and the putting down of a series of hand auger holes/test pits to determine the soil and groundwater conditions in the vicinity of the existing bed. Due to an excess of cover material, the client organised the excavation of the tank lid using hydraulic equipment, at which point a member of our hydrogeological staff returned to the site to perform an internal inspection of the septic tank. The internal inspection of the tank was completed on November 21, 2022.

Cursory Inspection

Our cursory inspection of the property found no surficial evidence of any operational problems (i.e. "break-out") with the leaching bed of the sewage system.

Septic Tank

The existing concrete septic tank was located in the field and due to the cover depth, the tank could not be inspected on the original inspection date of November 8, 2022. As such, Paterson Group returned to site on November 21, 2022, after the tank was excavated using hydraulic equipment, to complete the inspection. The access lid to the primary and secondary chambers of the tank were uncovered and opened. The top of the septic tank is buried more than 1,000 mm below the existing ground surface. Paterson personnel confirmed that the existing septic tank has an estimated working capacity of 3,600 L, as per the sewage system documentation. The location of the tank with respect to the existing building conforms to the present regulations, the Ontario Building Code, 2012 (OBC).

Based on a visual assessment of the exposed portions of the tank, the tank appears to be structurally sound and watertight. Slight deterioration of the concrete was noted on the inside face of the tank walls in the secondary chamber of the tank, above the normal operating level, which is not unexpected for a tank of this age and is not considered to be problematic at this time. The concrete centre wall was noted to have significant deterioration above the working level of the tank. The inlet baffle and effluent filter were observed to be intact and functional at the present time.



The client notified Paterson that septic risers were being installed while the overburden material was being carefully placed back on top of the tank. Paterson did not confirm the installation of the risers.

At the time of our inspection, the liquid level in the primary chamber was above the inlet pipe, and a thick layer of scum was observed in the secondary chamber of the tank. The effluent was noted to be approximately at normal operating level. The effluent level being maintained above the inlet pipe is anticipated to be caused by a clogged effluent filter. The client has notified Paterson that they will be pumping the tank, at which point the effluent filter will be cleaned.

Leaching Bed

The leaching bed was located in the field with a series of probe holes. Based on the probe hole results, the leaching bed appears to consist of a conventional bed comprised of approximately 44 linear metres of PVC distribution pipe (4 runs of 11 m L) as per the sewage system documentation. The location of the bed with respect to existing structures conforms to the present OBC regulations.

Two (2) test holes were excavated in the existing leaching bed area. In general, the soil conditions encountered in the test holes consist of topsoil (50 mm thick), followed by septic bed sand (1300 mm thick), followed by the septic bed piping. The investigation could not be completed below the 1.3 m depth of the septic bed piping due to excess cover materials. It is anticipated that the septic bed piping is further underlain by clear stone as noted in the File Search.

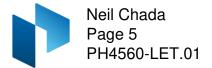
At the time of our fieldwork, light biomat (black/grey staining) was observed in the septic sand layer around the septic piping. Typically, as the biomat layer matures, it thickens and becomes "impermeable" which results in hydraulic problems with the system. The formation of light biomat is not unexpected for a bed of this age.

In addition, no effluent was encountered in the test holes for the total investigated depth of approximately 1.3 m below the ground surface. Typically, in a properly functioning leaching bed the distribution pipes and the clear stone layer are unsaturated for the greater part of the time, as was observed in the test holes.

Existing Sewage System Capacity

The original sewage system design was designed to support a TDDSSF of up to 1,100 L/day, as per the sewage system documentation.

For commercial applications, the septic tank should have a minimum working capacity of at least three (3) times the TDDSSF. As such, the existing septic tank, which has an estimated working capacity of 3,600 L, is considered to be adequate to support a flow rate of up to 1,200 L/day.



The total length of distribution piping required in a conventional trench style leaching bed is determined by the formula QT/200, where "Q" is the design daily sewage flow and "T" is the percolation rate of the soil, being at least 900 mm thick below the base of the absorption trenches. Based upon the approximate percolation rate of 8 min/cm, the approximate total length of distribution pipe of 44 m is considered to be adequate to support up to 1,100 L/day.

Prosed Sewage System Capacity

The existing residential building will be converted over to an office building for three (3) to five (5) employees working a standard 8 hour shift per day. Public access to the washrooms will not be provided. In accordance with the OBC, the septic flow volume calculations would be the greater of the following two calculations:

Office Area / 9.3 * 75 L/day

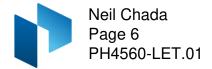
 81 m² / 9.3 x 75 L/day = 653 L/day

OR

Number of employees x 75 L/day
 5 employees * 75 L/day = 375 L/day

As the septic flow rate calculation based on the office area is the higher of the two calculations, the proposed total daily design sanitary sewage flow (TDDSSF) to be used for design purposes is **653** L/day.

As the existing septic bed is designed for a TDDSSF of 1,100 L/day, the existing system is considered adequately sized for the proposed change in use.



Findings/Recommendations

Based on our review and field observations the client should be aware of the following:

- □ Due to the lack of any downgradient sensitive receivers, a Septic Impact Assessment is not required as part of the Site Plan application.
- It is our opinion that the existing sewage system is functioning adequately and showing signs of age with the formation of a light biomat within the clear stone layer. The formation of a biomat is not unexpected for a bed of this age.
- □ The client should be aware that the age of the existing leaching bed is approximately 22 years and the average life expectancy of a bed of this type, when properly designed and constructed, is in the order of 30 years. Usage and maintenance will greatly affect the life expectancy.
- □ As a means of prolonging the life of the bed, good water practices (i.e. preventing surge flows) should be undertaken by the occupants.
- The location of the existing sewage system components with respect to the existing buildings and drilled wells conform to the OBC regulated separation distances.
- Due to the deterioration of the concrete centre wall of the tank, it is recommended that the centre wall be repaired.
- □ The tank should be inspected and pumped, and the effluent filter be cleaned, on a regular basis (i.e. approx. every three to five years).
- Commercial usage of the system would provide a maximum of 1,100 L/day for daily flows (TDDSSF).
- □ The existing system is considered adequate for the proposed commercial use in terms of sizing.



We trust that this satisfies your present requirements. Should you have any questions regarding this submission, please do not hesitate to contact the undersigned.

Yours truly,

PATERSON GROUP INC.

Erik Ardley, P.Geo



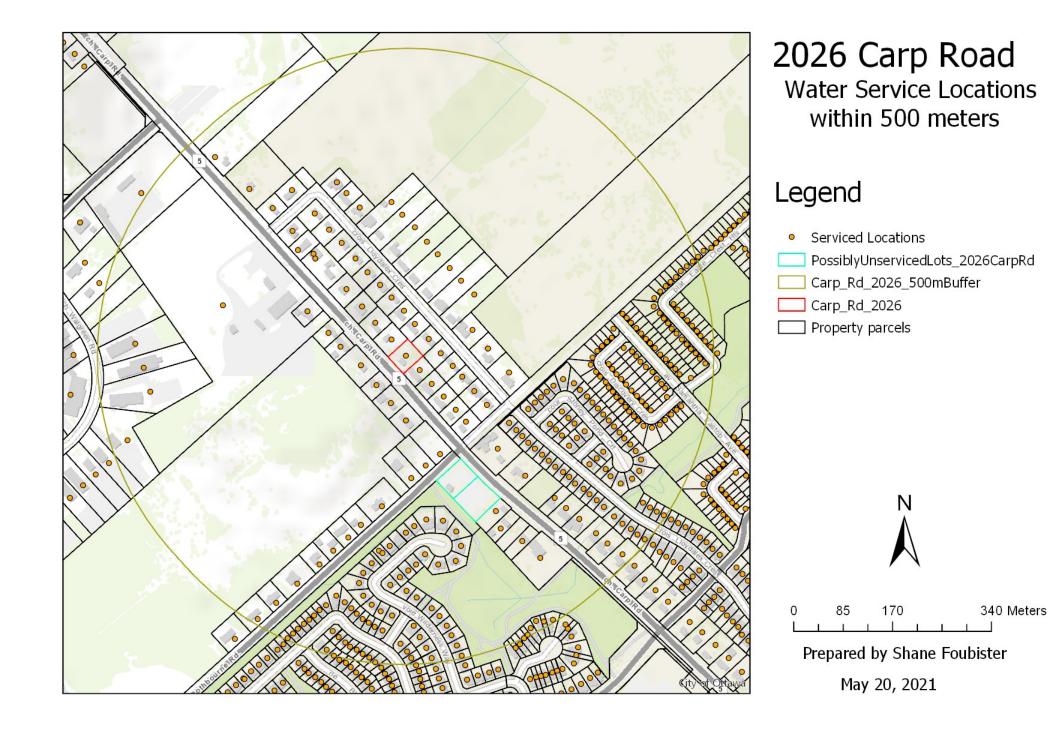
Attachments:

- City of Ottawa Municipal Servicing Map (500 m)
- □ Septic Systems Building Permit No. 00-0541
- □ City of Ottawa and MECP Feedmill Creek Flood Risk Map

Ottawa Head Office

9 Auriga Drive Ottawa – Ontario – K2E 7T9 Tel: (613) 226-7381 Ottawa Laboratory 28 Concourse Gate Ottawa – Ontario – K2E 717 Tel: (613) 226-7381 Northern Office and Laboratory 63 Gibson Street North Bay – Ontario – P1B 8Z4 Tel: (705) 472-5331







File Search Reply – Match Found

Information per applicant

То	Paterson Group	Date: October 25, 2022
Email:	earley@patersongroup.ca	Phone: 613-8089776
From:	Ottawa Septic System Office	
Phone:	613.692.3571 – Press "4" for the	Septic office
Email:	septic@rvca.ca	
Follow up	and the second sec	5-22-154 rchive file(s) WC-00-168
Lot 1	Civic Address: 20 Former Township: H Property Owner Last Name: 22	026 Carp Road untley 244434 Ontario Inc.
	Con: 2 Part: Septic system designed per the	Plan: 5R-4886
	attached records for:	Real estate feature listing obtained via the internet:
Bedrooms	2	
Bathrooms	New sector of the sector of th	
Square M		

Attachment(s):

• Permit

Application

The foregoing information is given for your convenience only. Supplementary requests are necessary for conformity with other legislation such as flood plain or shoreline works. It should be clearly understood that you must satisfy yourself as to whether the premises and the existing or proposed use thereof is or would be in conformity with all applicable regulations. For further information please contact the Ottawa Septic System Office staff at the number listed above. Thank you for contacting the Ottawa Septic System Office.

Part 8 Inspector: Jason Hutton

Visit our website - ottawasepticsystemoffice.ca



NO. 00- 054

PERMISSION IS HEF	REBY GIVEN TO:	R. ALE	exander.		
PROJECT DESCRIP		5 55 Pt	IC SYSTEM		
STREET ADDRESS:	2026	Carp F			
LOT NO.: PT 1	_CONCESSION NO.:	2	PLAN NO.:	PART:	WARD:

FREEDOM OF INFORMATION

"Personal information contained on this form is collected under Section 8 of the Building Code Act, S.O. 1992 Chapter 23. The information will be used within the municipality. Questions arising about this collection should be directed to the Chief Building Official."

13,20 Nou

Date

Chief Building Official

THIS CARD MUST BE POSTED NEAR PROPERTY LINE AND VISIBLE FROM THE MAINTAINED ROAD.

BUILDING PERMIT CIRCULATION FORM

APPLICANT: <u>ALEXANDER</u>. DATE: <u>NOU·6/00</u> CIVIC ADDRESS <u>2026</u> CARP ROAD ROLL # 030 810 04100

APPROVALS APPLICABLE:

Date Reg. Approved Authorization Letter/Deed I NOV-6600 M.V.C.A.(fill/flood) Septic Approval/Location I NOV-12,1005 Site /Lot Grading Plan Reviewed By: Entrance: MTO RMOC WC New Existing I	Arch/Eng.Review M.O.E.E. Air Discharge M.N.R. Zoning (see below) Severance Minor Variance M.O.L. Council Site Plan	Date Req. Approv	ved O.M.A.F./MDS Arch/Eng Review RMOC Water Regional Health Solicitor Gen/Fire Marshal MTO Bldg/Land Use Plans Examination Finance	Date Req. Approved	
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BUILDING DEPARTMENT:

	AREA CALCULATIONS:				
1	. GROSS BLDG. AREA: (all floor levels including exterior wal	ls)			
	deck / balcony / porch	/	12		
	house	. *	· ·		
	garage			2	
2	. BUILDING AREA FOOTPRINT				
3	. INTERIOR BUILDING AREA (all floor levels - living area)			2	
4	. BUILDING DESCRIPTION	San	C BERLAC	TIM PUT	
L			e pertence	2111110101	
			angle get in the second s		

PLANNING DEPARTMENT: Reviewed by: _____ Date:_____

Zoning Compliance	Other
Existing Undersized Lot Bldg Height Dwelling Unit Area Separation Distance Setbacks Met Maximum Coverage	Subdivision Agreement Special Covenants/Easements NOTE:
	Bldg Height Dwelling Unit Area Separation Distance Setbacks Met

FEES APPLICABLE

FINANCE:	DEVELOPMENT CHARGES	BUILDING:
Reviewed by:	Municipal Dev. Charge \$	Building \$
Comments:	Regional Dev. Charge \$ Education Dev. Charge: OCDSB \$ OCCSB \$ OCCSB \$ OCFLCSB. \$	Plumbing \$ Stove/Fireplace/Chimney \$ Demolition/Moving \$ Entrance \$ Septic \$250.00
	OCFLPSB \$ Water Lateral \$	Civic Sign \$ Pool Enclosure \$ Revision \$
	Sewer Lateral \$ RMOC Water (221) \$	Admin \$
	RMOC Sewer (221) \$ TWSP Local Sewer (221) \$	Subtotal B \$250.00
		ZONING/PLANNING:
, at	Subtotal A \$	Subtotal C \$
* * * * * * * * * * * * * * * * * * *		+ Subtotal A \$/ 0
		+ Subtotal B \$250.00 N
		TOTAL \$250.00

TOWNSHIP OF WEST CARLETON	BUILDING PERMI Personal information on this form is c Building Code Act and the Township or will be used in the processing of your bu collection of personal information shoul	ollected under the authority of the f West Carleton Building By-law and ilding permit. Questions about this	PERMIT NO. <u>60-054/</u> ROLL # <u>030 810 04100</u>
APPLICATION DATE: NOV 6	/00	ESTIMATED VAL	UE:\$ 6,000. 00
WORK TYPE: CONSTRUCT D MC	IVE 🗅 DEMOLISH 🗅 PLUMB		C REVISE C INSTALL SEPTIC
USE TYPE: REGIDENTIAL 🗆	COMMERCIAL D FARM	M 🗋 INSTITUTIONAL 🗅	INDUSTRIAL D
PERMIT FOR <u>Replace</u> (Pescribe Work)	Septic System	- including ne	wtank
LOCATION		CONTRACTOR	
LOT CON 2		Name RON MOORE I	DUIP. Ltd
PLAN Address/Street Name 2026	Caro Pd	Address P.O. BOX SC	Dat Vacio
Address/Street Name	COIP NU.		Ont Postal Code Kas IA6 543 h()
OWNER		APPLICANT	
Name Ruth Alexander Address R.R # 7 3			ractor
City/Prov Carp , Ont	KOAILD		
Phone w ()	- 1613 836 - 232		h()
PLUMBER		SEPTIC INSTALLER	
Name		Name <u>Contra</u>	actor
Address	<u> </u>	Address	
City/Prov Phone w ()		City/Prov	
License # 306 A	h()	Phone w () License #	h ()
PLUMBING /SEPTIC	APPLIANCES/FIXTURES		
No. of Bedrooms 2 EXI STING	Auto Washer Sewage Pur	npSeptic Connect	Sink/Basin Laundry Tub
No. of Fixtures			Floor Drain Shower/Tub
Fixture Units 2 EXISTING	Toilet Vent Roof	Hot Water Tank	B/W Valve Other
	• • •		
FEES		Deve	elopment Charges
	e/Fireplace/Chimney \$	Administration \$	0.6.Q.S.B. \$
Plumbing \$ Civic Septic \$250,~ Entr		Revision \$	0.c.c.s.B. \$
	Enclosure \$	Municipal Development Charge \$_ Regional Development Charge \$	
COMPLY WITH ALL BY-LAWS AND MUNICIPAL RE SAID BY-LAWS AND REGULATIONS, THOUGH NO	GULATIONS, IT BEING EXPRESSLY UNDERSTO IT CALLED FOR IN THE SPECIFIC THONS OR S FORMANCE TO THE SAID BY-LAW OR RESULAT	DOD THAT THE ISSUING OF A PERMIT DOE HOWN ON THE PLANS SUBMITTED. THE AP	IS, AND SITE PLAN HEREWITH SUBMITTED, AND AGREES TO S NOT RELIEVE THE APPLICANT FROM COMPLYING WITH ALL PPLICANT FURTHER AGREES THAT IF A PERMIT IS REVOKED ISSUANCE OF THE PERMIT ALL CLAIMS ARE WAIVED ARISING
REGISTRATION #	EXPIRY DATE ARIO HOME WARRANTIES PLAN ACT. AS OV	VNER/BUILDER IT IS MY INTENTION TO RE	BUILDER) OR CONTRACTING AS A BUILDER. BUILDERS OR TAIN OWNERSHIP FOR MY OWN USE. I UNDERSTAND THAT (Applicant to initial)
PROVINCE OF ONTARIO, REGIONAL N OF OTTAWA CARLETON TO WIT:			UILDING PERMIT, IN PURSUANCE OF BUILDING ORATION OF THE TOWNSHIP OF WEST CARLETON
APPLICATION AND THE PLANS AND SPECIFICATI	IONS SUBMITTED HEREWITH IS TRUE AND CO	RRECT IN EVERY RESPECT AND NO RELEV. OF THE SAME FORCE AND EFFECT AS IF MA	D IN THE APPLICATION AND THE INFORMATION IN THE SAID ANT INFORMATION HAS BEEN WITHHELD. AND I MAKE THIS INDE UNDER OATH, AND BY VIRTUE OF THE CANADA EVIDENCE DAY OF ALD STREET
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Witness: Affan In S		TY OF OTTAWA-CARLETON, THIS	Noviette

ТОУ	WNSHIP OF WEST CA	ARLETON
DESIC	NIDEVIEW FOR CLASS 4 SEPTIC	CSYSTEMS
Permit # : 00 - 0541	Reviewed Copy Fo	or : Applicant [] or Office [1]
Owner ALEXANDE	Design Conforms	To Regulation : Yes Y NO[]
Date : 100.12,200	Flood Plain Eleva	ations in effect : Yes [] No [4
n: in - 16/1	New System =	m[] Replacement = $m[]$
Increations Dequired . T	est Pits [1] Scarify Sub-grade] / Installation [] Final Grading []
D Demine	d Ear Filter Reds · [] Weigh Rills	s (copies) Grain Analysis
Shallow Buried Trench :	BMHC Specifications [] Copy	of Treatment Onit's Mantenance right
[] Copies of Engineer's S	Site Inspection Reports [] Other	
(A) DAILY DESIGN FLO	W CALCULATIONS :	# of bedrooms = 2 Litres = 1000 Additional F.U = Litres =
	Fixture Unit Count Over 20 Additional 50 L per Fixture Unit	Additional F.U = Litres
3 bcdroom = 1600 L	Dwelling Area Over 200 m2 - Additional I	Now for every 10 m2 Additional m2 = Litres
4 hedroom = 2000 L	Between 200 m2 to 400 m2 = $100 L$. Over Between 400 m2 to 600 m2 = $75 L$.	
5 hedroom = 2500 L Over 5 hedrooms - additional flow		Exceeds 10,000 L/Day Yes [] No [+
NON-RESIDENTIAL USES : FIG	ows based on occupancy	
(B) SIZE OF TREATME	NT UNIT SEPTIC TANK :	Proposed = 3600 I. (Total of all tanks) 12 CODE MIN. = $3600L$.
(1) Minimum tank size Resident Non-res	idential - Daily Design Flow x $3 = $	La CODE MIH. = 3600L.
	CONTROLL.	
		$\begin{array}{ll} \text{Cm} & \text{Bed Loading Rate} = \underbrace{10}_{1/m2/day} \\ y \cdot 35 < T < 50 = 6 \ \text{L/m2/day} \\ \text{Cm} & \text{Rate} \\ \text{Cm} & \text$
Loading Rates = where 1 < 1 < 2	$0 = 10 \text{ L/m}_2/\text{day}$, $20 < 1 < 55 = 8 \text{ C/m}_2/\text{day}$	uried Bed [
Decine Pump & Chamber Requi	red Yes NO Addition System	in required the first
I	NCHIEACHING REILLEVEN	
(1) LENGTH OF DISTRIBUTIO	ON PIPING: $(2 < 1 - time < 20) L = Q17200$	nine dosage volume 75% of distribution piping.
Distribution piping > 150 meters	nimum dosage volume = Litres Pro	oposed volume =Litres
(3) Proposed bed size # of runs	= 4 x length of runs = 11 m	Descender III DURICIS IN AM
4) REQUIRED 900 mm to fee 40 meters min. to	tal pipe length and 30 meters max. run length	Total nine length = 44 m and Max run length - 11 m
trench - width (D	00 to 1000 mm) by depth (000 to 700 mm)	trench - width = 500 mm by depth = 600 mm - spacing = 1000 mm
	minimum 1600 mm	
in Children Flaure	1/day [1 < 5000 I/day < [] Daily I	Design Flow [] < 3000 L/day < [] (2 beds of equal size required) (other then a sentic tank).
Where Daily Design Flow e	xceeds 5000 L/day a treatment unit is required	() Transmont Unit (effluent not exceeding max, in Table 8.6.2.2 A)
(2) SIZE OF BED EFFECTIVE	Max 751/m2/day Max 50 L/m2/day	Max. 100 L/m2/day Minimum Bed Area =m2
Bed area minimum = 10 m2 a	nd not more than 50 m2	m^2 (minimum) Proposed = m^2
(3) SIZE OF CONTACT ARE	A : Daily Design Flow x Soil Percolation Tin	$me = \m2$ (minimum) Proposed = $\m2$
(4) Volume of Filter sand = Be	wight of	of Filter Sand (45.36 kg / ft3 or 1602 kg / m3) =kg m2 Proposed =kg
(5) SIZE OF MANTEL CONT	TACTAREA Daily Design Flow -	m_2 Proposed = m_2
	Bed Loading Kate	to declarate
(Q) PROPRIETARY 1	TREATMENT UNIT AND SHALL	LOW BORIED TREFERENCE
SHALLOW BURIED BEDS	TION PIPING : (T-time < 50) $L = Q / 75$	(T-time > 50) L = Q / 40 Minimum =
Pipe shall be minimum 25 mi	m dia, and shall be self-draining. Every chain	ber shall contain only 1 pressurized distribution pipe PROPOSED :mm
(2) REOURED . 900 mm to	rock, water table or impervious soil total pipe length and 30 meters max. run len	Total pine length = m and Max. run length = m
trench - width	(300 to 600 mm) by depth (300 to 600 mm)	Trench - width =mm by depthmm
- spacir	ng minimum 1600 mm	5 600 mm when measured at the most distant point from the pump
(3) A pressurized distributio	n system shall have a pressure head minimum	& the cross-sectional height of the chamber at the centre point shall
not be less than 1/2 the width	of the trench.	
(E) BED CONSTRUC	CTION :	PROPOSEDmm
) to 600 mm topsoil over stone per over stone	Yes [4 No []
	mm stone over tiles	
	mm tile diameter minimum	15/2 mm
	mm stone depth below tile minimum	(No clone required on Filter Beds.)
Passed Beds require a m	inimum 15 meters manter extension in the of	
Proposed mental extension	=meters and proposed depth =	
Mantel Slope minimum	be 1 in 3 provided measures are taken to pri	revent crossion & ensure stability of the leaching bed fill)
(F) CLEARANCES	REQUIRED :	
() TREATMENT UNIT	To any structures = 1.5 meters To property lines = 3 meters	Proposed 1.5 meters
	[10] [MALEND AND MALEND AND MALENDARY AND ADDRESS AND ADDRESS ADDRESS AND ADDRESS AND ADDRES ADDRESS AND ADDRESS AND ADDRES	melers municipal which
(2) LEACHING BEDS	Increase clearances for raised bods by 2 x	meters (height above existing grade) = meters
	To any structure = 5 meters To property lines = 3 meters	3 meters
	To any trees = 3 meters	3 meters
	To any bodies of water = 15 meters To wells - cased to 6 m = 15 meters	- meters ANDHICIPAL WATER.
	- all other types = 30 meters	meters Revised 05/0700

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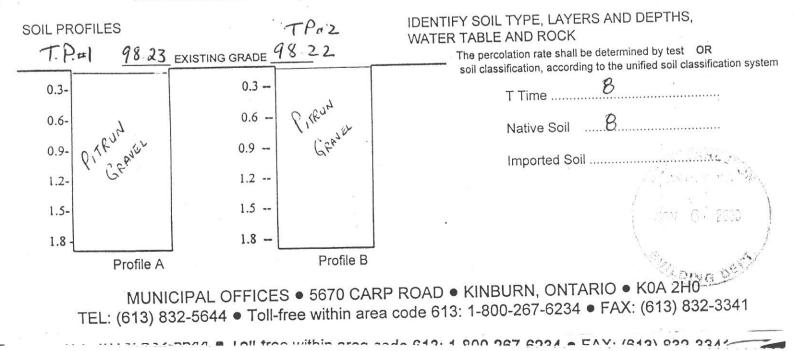


SEPTIC SYSTEM SITE EVALUATION

CLASS 2 LEACHING PIT CLASS 3 CESS POOL CLASS 4 SYSTEMS CLASS 4 SYSTEMS CLASS 4 SYSTENCH CONVENTIONAL CLASS FILTER BED (ATTACH GRADING CERTIFICATE) FILTER BED (ATTACH GRADING CERTIFICATE) PROPRIETARY SYSTEM DESCRIBE CLASS 5 HOLDING TANK TYPE OF ALARM AUDIO VISUAL	NAME RON MODRE EQUIP. LTD R. MOORE (Name of Individual Preparing Site Evaluation) ADDRESS. P.D. BDX 507 - 2060 CARP RD CITY. STITTSVILLE DNT POSTAL CODE K25 IAG PHONE 0 (613) 836 - 4543 H (FAX) 831 - 3392 LICENCE # L1998 - 0.622
PUMP OUT CONTRACT I ATTACH DOCUMENTATION	DESIGN PARAMETERS
	□ NUMBER OF BEDROOMS - EXIST _ 2 PROPOSED
	TOTAL ALL FLOORS - LIVING AREA
	WATER SUPPLY - DUG WELL A MUNICIPAL - SAND POINT A WATER
	- CASED WELL (min 6M)

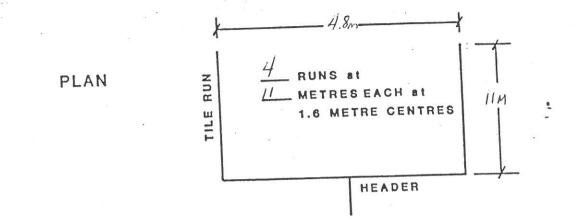
SEPTIC SYSTEM DESIGN	PLUMBING FIXTURES	EXIST	PROPOSED		FIATORE DINITO
36002 TANK SIZE (NEW)	Bathroom Group (3 PCs)	_/		X 6	6
PROPRIETARY TREATMENT SYSTEM	Bathtub/Shower	·		X 1.5 X 1.5	
DESCRIBE (ATTACH MANUFACTURERS INFORMATION) IM LENGTH DISTRIBUTION PIPING EACH RUN WIMBER OF RUNS UMBER OF	Basin (Lavatory) Toilet Bidet Sink - Kitcinew Dishwasher Laundry Tub Auto Washer Water Softener Other	 		X 1.5 X 4 X 1.0 X 1.5 X 0.5 X 1.5 X 1.5 X	1,5 1.5 9
PUMP REQUIRED MANUFACTURER (ATTACH MANUFACTURER SPECS AND INSTALLATION INSTRUCTIONS)					

NOTICE: Depth to bedrock/watertable and description of soil type are to be shown for both profiles. TWO test locations are required of BURIED beds.

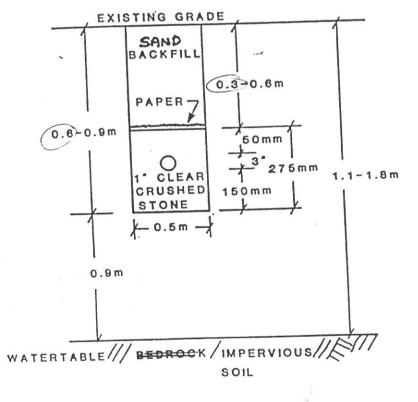


TYPICAL DRAWING A

BURIED BED-ABSORPTION TRENCH METHOD



PROFILE



END VIEW



Building Services Branch

INSPECTION REPORT

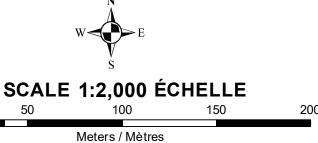
Address 2026 CARP	POPD,	Application No
		Building Permit No.
Block No Lot. No	Unit No	
BUILDING	MECHANICAL	PLUMBING
🗆 Backfill	□ Fire Alarm	□ Underground
□ Framing/Superstructure	□ Sprinkler	□ Roughing
Insulation/Vapour Barrier	□ Standpipe	□ Final
A	□ HVAC	
SEPTIC INSTALL.		
INSPECTION COMMENTS		
Order Issued		
E) TOP SOIL COVER OF	HER THE R	Fin Prolo For
EINAL INSPECT	contenter FI	EUD RECO'D FOR
Inspection Passed Inspec	tion did not pass, call for	See Page 2
Received by ALEXANDER (Print Nam (Print Nam (Print Nam (Print Nam	re) Port.	THURD. 24. Date 100. MAY 25, 2001 Phone No. 5802424 x 32275.
DISTRIBUTION LIST: White (Central File) Canary (In	spector) Blue (Recipient)	S:\Restricted\S&S\Building Inspections\Inspection Report



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This map is produced in part with data provided by the Ontario Geographic Data Exchange under Licence with the Ontario Ministry of Natural Resources and the Queen's Printer for Ontario, 2019

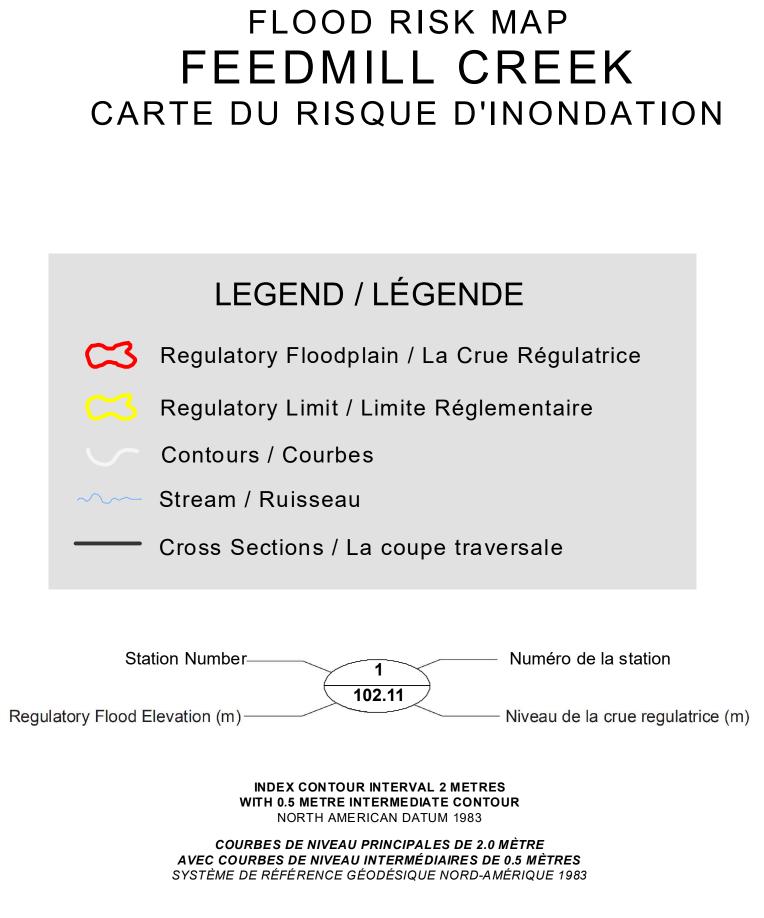
lmagery © Fugro Geospatial, May 2014 Digital Elevation Information © GeoDigital International Inc. - Spring 2006



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GENERAL INFORMATION

RENSEIGNMENTS GÉNÉRAUX

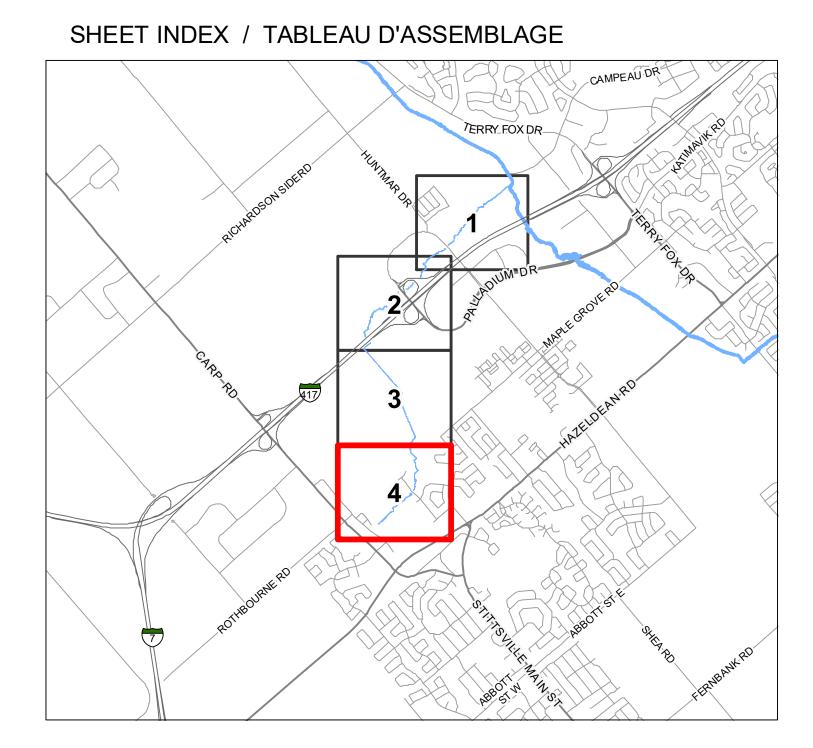
Vertical Datum: CGVD28 Horizontal Datum: North American 1983 Map Projection: Ottawa Transverse Mercator Projection Niveau de référence vertical: Niveau de référence horizontal: Nord-americain 1983

Projection cartographique: Projection Mercator Transverse d'Ottawa

Mississippi Valley Onservation Authority



CGVD28



Revision #	Issue	OFESSION
1 - January 31, 2017	Final	1900 D
2 - February 8, 2019	Floodline Revision: Permit No. W15/38	3 John Rud
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		3 Jan 31/17
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