

Ministry of the Environment, Conservation and Parks Ministère de l'Environnement, de la Protection de la nature et des Parcs

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A-500-7296109991

Version: 1.0

Issue Date: September 28, 2025

Pursuant to section 20.3 of the *Environmental Protection Act*, Revised Statutes of Ontario (R.S.O.) 1990, c. E. 19 and subject to all other applicable Acts or regulations this Environmental Compliance Approval is issued to:

JL FILTRATION OPERATING LIMITED PARTNERSHIP

3906 ALLARD AVENUE (AV) LEDUC ALBERTA T9E 0R8

For the following site:

3965 Hi Way 11 N Highway North, North Bay, NORTH BAY, ONTARIO, CANADA, P1B 8G3

You have applied under section 20.2 of Part II.1 of the *Environmental Protection Act*, R.S.O. 1990, c. E. 19 (*Environmental Protection Act*) for approval of:

Six (6) mobile sewage works for the collection, transmission, treatment and disposal of process water, stored water, surface water or groundwater impacted with petroleum hydrocarbons, gasoline, diesel fuel, oil, volatile organic contaminants, polycyclic aromatic hydrocarbons, halogenated and non-halogenated solvents, surfactants, metals, organic and inorganic contaminants and/or total suspended solids, with each Mobile Treatment Unit having a rated hydraulic capacity of up to 4000 litres per minute, with treated effluent to be disposed depending upon the Site Location through discharge to municipal sewer system or drainage ditches (where allowed by municipal by-laws); onto the ground for infiltration; into a man-made or natural waterbodies onsite (i.e. stormwater retention pond); or a natural waterbodies offsite.

Local and municipal permits shall be obtained as applicable prior to treatment and discharge. A Notice of Site-Specific Change will be submitted when the environmental study supports using higher effluent limits compared to those stipulated in Condition 9 of this Approval.

each mobile sewage works treatment train consisting of the following:

Receiver Tank

 One (1) steel Receiver Tank with a built-in degasser receiving water from the hydrostatic test section.

Bag Filter(s)

Four (4) bag type, mechanical filter units operating in parallel, to be used in any number online as needed, with piping and valves to allow on-the-fly filter element replacement, receiving water from the Receiver Tank and discharging filtrate to a steel header pipe connected to the top of a Granulated Activated Carbon Adsorption Tank.

Granular Activated Carbon Filtration System

Two (2) Granulated Activated Carbon Adsorption Tanks, containing 8 x 30 granular activated carbon, discharging treated effluent through a steel pipe with a suitable aerator/energy diffuser and a splash pad, if necessary.

Miscellaneous System

- including instrumentation, piping, valves and appurtenances essential for the proper operation of the aforementioned sewage Works, housed within a mobile treatment trailer or mobile skid temporarily located on-site.
- additional pumping system(s) if required depending on the elevation of the discharge point relative to the mobile treatment unit.

including pressure gauge, compressor, flow meter and flow regulators, sample ports, oil storage drums, and all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned Works all housed in a secured mobile trailer, or an enclosed trailer, or a sea can or a skid.

all in accordance with supporting documents listed in **Schedule 1.**

DEFINITIONS

For the purpose of this environmental compliance approval, the following definitions apply:

- 1. "Application" means the application for an environmental compliance approval submitted to the Ministry for approval by or on behalf of the Owner and dated 05/06/2025.
- 2. "Approval" means this environmental compliance approval, any schedules attached to it, and the Application;
- 3. "Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;

- 4. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Works is geographically located;
- 5. "EPA" means the Environmental Protection Act, R.S.O 1990, c.E.19, as amended;
- 6. "Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;
- 7. "ODWS" means Ontario Drinking Water Standards, Objectives and Guidelines;
- 8. "Owner" means JL FILTRATION OPERATING LIMITED PARTNERSHIP, and includes its successors and assignees;
- 9. "OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40, as amended;
- 10. "PWQO" means Provincial Water Quality Objectives;
- 11. "Site" means the location where the mobile Works is to be deployed; and
- 12. "Works" means the sewage works described in the Owner's application, and this Approval.

TERMS AND CONDITIONS

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

1. GENERAL PROVISIONS

- The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Works is notified of this Approval and the terms and conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 2. Except as otherwise provided by these terms and conditions, the Owner shall design, build, install, operate and maintain the Works in accordance with this Approval.
- 3. Where there is a conflict between a provision of this environmental compliance approval and any document submitted by the Owner, the conditions in this environmental compliance approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Owner, the Application shall take precedence unless it is clear that the purpose of the document was to amend the Application.
- 4. Where there is a conflict between the documents listed in the **Schedule 1**, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

- 5. The terms and conditions of this Approval are severable. If any term and condition of this environmental compliance approval, or the application of any requirement of this environmental compliance approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.
- 6. The issuance of, and compliance with the conditions of, this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement, including, but not limited to, the obligation to obtain approval from the local conservation authority necessary to construct or operate the Works; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken to require the Owner to furnish any further information related to compliance with this Approval.

2. CHANGE OF OWNER

- 1. The Owner shall notify the District Manager and the Director, in writing, of any of the following changes within **thirty (30) days** of the change occurring:
 - a. change of address of Owner;
 - b. change of Owner, including address of new Owner;
 - c. change of partners where the Owner is or at any time becomes a partnership, and a copy of the most recent declaration filed under the *Business Names Act*, R.S.O. 1990, c. B.17shall be included in the notification; and
 - d. change of name of the corporation and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C.39shall be included in the notification.
- 2. In the event of any change in ownership of the Works, the Owner shall notify in writing the succeeding owner of the existence of this Approval, and a copy of such notice shall be forwarded to the District Manager.
- 3. The Owner shall ensure that all communications made pursuant to this condition refer to the number of this Approval.

3. NOTIFICATION OF CHANGES IN PROCESSES OR PROCESS MATERIALS

1. The Owner shall give written notice to the Director of any plans to change the processes or process materials forming a part of the Works (and any plans to change the processes or process materials in the Owner's enterprise serviced by the Works) where the change may significantly alter the quantity or quality of the influent to or effluent from the Works, and no such change(s) shall be

made unless and until the Owner applies for and receives the written approval of the Director pursuant to section 20.2 of the EPA for the purposes of Part II.1 of the EPA.

4. AREA OF OPERATION

- 1. The Owner may operate up to six (6) mobile sewage Works anywhere within the Province of Ontario for the purposes of treating water from dewatering of a pipeline after performing a pressure test on the pipeline, provided that only the parameters listed in Condition 9 of this Approval under organic parameter groups of petroleum hydrocarbons (gasoline/diesel/heating oil), polycyclicaromatic hydrocarbons, chlorinated solvents and/or volatile organic compounds, and inorganic parameters under metals group is present in the water. Any use of the system for treatment of any additional parameters not listed in Condition 9 but detected at the site can only be undertaken with the written approval of the Director pursuant to section 20.2 of the EPA for the purposes of Part II.1 of the EPA.
- 2. The Owner shall ensure that the mobile sewage Works are not deployed at a Site for more than **one** (1) **year.**
- 3. Pursuant to site specific conditions, the time period identified in Condition 4.2 may be extended by the District Manager in writing.

5. OPERATIONS AND MAINTENANCE

- The Owner shall ensure that at all times, the Works and related equipment and appurtenances which are installed or used to achieve compliance with this Approval are properly operated and maintained in accordance with manufacturer's specifications.
- 2. In furtherance of, but without limiting the generality of, the obligation imposed by Condition 5.1, the Owner shall ensure that:
 - a. funding, staffing, training of staff, laboratory and process controls, quality assurance and quality control procedures of or in relation to the Works are adequate to achieve compliance with this Approval; and;
 - b. equipment and material are kept on hand and in good repair for immediate use in the event of:
 - i. upset
 - ii. bypass;
 - iii. abnormal loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment or interior of any building; or

- iv. spill within the meaning of Part X of the EPA.
- c. and staff are trained in the use of said equipment and material and in the methods and procedures to be employed upon the occurrence of such an event.
- 3. The Owner shall prepare an operations manual of the Works prior to the commencement of the operation of the Works. The operations manual shall include, but not necessarily limited to, the following information:
 - a. Treatment configuration proposed;
 - b. Operating procedures for routine operation of the Works;
 - c. Inspection programs, including frequency of inspection, for the Works and the methods or tests employed to detect when maintenance is necessary;
 - d. Repair and maintenance programs, including the frequency of repair and maintenance for the Works;
 - e. Contingency Plans and Procedures for dealing with upset, bypasses and any other abnormal situations, and for notifying the District Manager; and
 - f. Complaint procedures for receiving and responding to public complaints, including a reporting system which records what steps the Owner took to determine the cause of the complaint and what corrective measures were taken to alleviate the cause and prevent its recurrence.
- 4. The Owner shall maintain the operations manual up to date through revisions undertaken from time to time and retain a copy at the location of the Works. Upon request, the Owner shall make the manual available for inspection and copying by Ministry personnel.

6. SPECIAL OPERATION AND MAINTENANCE

- 1. The Owner shall ensure that, prior to the Works being deployed for operation at a Site, the following analysis is undertaken by a qualified professional(s) and the information submitted to the local District Office of the Ministry where the Works are to be deployed as part of a pre-deployment consultation:
 - a. a detailed characterization of the surface water/industrial wastewater/groundwater from the Site is carried out through sampling and analysis for organic parameter groups of petroleum hydrocarbons, polycyclic-aromatic hydrocarbons, chlorinated solvents and/or volatile organic compounds and other potential parameters of concern including a scan for metals and metal-hydrides. This characterization is to be completed to determine the contaminants present at the Site and their

quantities;

- b. an environmental study report is completed to determine the suitability of the mobile Works to complete the proposed remedial work and to meet the effluent limits stipulated in Condition 9 of this Approval. In addition, the report is also to evaluate the assimilative capacity of the effluent receiver if needed in consultation with the District Manager and the Ministry's Regional Surface Water Specialist, to evaluate the maximum treatment capacity that can be deployed at a given time for a given Site ensuring that the effluent receiver is not adversely impacted; and;
- c. information/documentation requested in Condition 6.1a. and Condition 6.1.b. should be submitted along with the operations manual requested by Condition 5.3.
- 2. The Owner shall ensure that, prior to the Works being deployed for operation at a Site, the following activities are undertaken:
 - a. any oily waste collected from the use of the sewage Works shall be disposed in accordance with Part V of the *Environmental Protection Act*; and
 - b. all components of the Works are inspected for proper operation, cleaned and any necessary repairs or replacement are made as necessary.
- 3. Notwithstanding Condition 10, the Owner shall undertake the appropriate monitoring to determine when breakthrough will occur in any of the absorption/adsorption vessels and shall terminate operation upon breakthrough until the filter media in the vessel(s) or the vessel(s) itself has been replaced.

7. NOTIFICATION OF DISTRICT MANAGER

- 1. The Owner shall carry out the pre-deployment consultation with the District Manager of the Ministry's District Office where the mobile sewage Works are to be deployed as specified in Condition 6.1.
- 2. The Owner shall provide operation commencement notification to the District Manager of the Ministry's District Office where the mobile sewage Works are to be deployed at least **fifteen (15) working days**, or other time period as specified by the District Manager, prior to commencing operation at any Site by submitting:
 - a. a copy of this Approval; and
 - b. a completed Form 1 (see **Schedule 4** attached to this Approval); plus a scaled site plan, indicating the intended location of the equipment relative to the onsite structures, all property lines, drainage ditches, wells, surface

watercourses and discharge location of the Works.

3. The Owner shall retain a copy of this Approval at each Site at which the Works are in operation for inspection by the Ministry's staff.

8. EBR PUBLIC NOTIFICATION

1. The Owner shall, at least **five (5) days** prior to commencing operation at a new Site, provide public notification to those residing in the vicinity of the site in a form as described in S. 28(1) of the *Environmental Bill of Rights*.

9. EFFLUENT LIMITS

- 1. The Owner shall operate the Works such that the concentrations of the contaminant(s) of concern identified pursuant to Condition 6.1.a. and named as effluent parameters in the Effluent Limits Table in **Schedule 2** are not exceeded in the effluent.
- 2. The limit for Lead shall be based on the interim Provincial Water Quality Objective (PWQO) level which is determined based on the hardness of water. If the hardness (as CaCO3 concentration) is less than 30 milligrams per litre, the limit is 1 microgram per litre. If the hardness is between 30 milligrams per litre and 80 milligrams per litre, inclusive, the limit is 3 micrograms per litre. If the hardness is greater than 80 milligrams per litre the limit is 5 micrograms per litre.
- 3. The limit for lead as specified in Condition 9.2 may be modified by the District Manager in writing from time to time if the Owner requests for a deviation by providing a rationale and environmental justification.
- 4. The Owner shall prepare and submit for the review and approval of the District Manager, Per-and PolyFluoroAlkyl Substances (PFAS) Effluent Objectives and Effluent Limits as follows:
 - a. Effluent Objectives: below Reportable Detection Limits for the 25 PFAS listed in **Schedule 5** of this Approval;
 - b. Effluent Limits: As low As Reasonably Achievable (ALARA) and;
 - c. If the Effluent Objective is exceeded, the Owner shall:
 - i. refrain from operating the Works,
 - ii. consult with the District Manager,
 - iii. provide a plan to the District Manager on how to meet the Effluent Objectives, and confirm compliance with the Effluent Limits, to the satisfaction of the District Manager, prior to any further discharge of

effluent from the Works.

- 5. The Owner shall maintain the pH of the effluent between 6.5 to 8.5, inclusive, at all times.
- 6. For the purposes of determining compliance with and enforcing Condition 9.1, exceedence of a effluent concentration is deemed to have occurred when any single sample analyzed for a parameter named in Column 1 of any Table in Condition 9.1 is greater than the corresponding effluent concentration set out in Column 2 of any Table in Condition 9.1.

10. EFFLUENT QUALITY MONITORING AND RECORDING

- 1. The Owner shall collect samples at the sampling points named below, in accordance with the measurement frequency and sample type specified for each parameter named in the Effluent Monitoring Table in **Schedule 3**, unless otherwise required in writing by this Approval or by the District Manager.
- 2. The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:
 - a. the Ministry's publication"Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario" (December 1996), ISBN 0-7778-4056-1, as amended from time to time by more recently published editions;
 - b. the Ministry's publication"Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the *Environmental Protection Act*" (March 9, 2004), as amended from time to time by more recently published editions;
 - c. the publication"Standard Methods for the Examination of Water and Wastewater" (22nd edition) as amended from time to time by more recently published editions; and;
 - d. for any parameters not mentioned in the documents referenced in (a), (b) and (c), the written approval of the District Manager shall be obtained prior to sampling.
- 3. The sampling frequency for Locations #2:
 - a. shall be once each day for the first one (1) week of operation at a site and may be reduced to once a week thereafter, if no exceedance of the criteria in condition 9 has been observed during the one (1) week daily sampling; and
 - b. shall revert to daily followed by weekly, as outlined in paragraph (a),

following replacement of treatment media.

- 4. The Owner shall measure, record and calculate the daily volume of flow discharged from the Works.
- 5. The Owner shall maintain a log book to record:
 - a. all analytical and monitoring information;
 - b. a tabulation and description of any operating problems encountered and corrective actions taken;
 - c. a summary of any maintenance carried out on any equipment; and
 - d. keep this book with each individual mobile sewage works.

11. REPORTING

- 1. Upon being allowed to establish operations following pre-deployment consultation with the District Manager of the local District Office of the Ministry, the Owner shall submit a copy of the analytical results and flow volume records, collected pursuant to condition 10, to the District Manager on a monthly basis, or at any other frequency specified in writing by the District Manager.
- 2. The Owner shall report to the District Manager or designate, any exceedence of any parameter specified in Condition 9 orally, as soon as reasonably possible, and in writing within **seven (7) days** of the exceedence.
- 3. The Owner shall, upon completion of treatment operations at a Site, prepare and submit a performance report to the District Manager of the local District Office of the Ministry, no later than **thirty (30) working days** following the end of operations. The report shall contain, but shall not be limited to, the following information in a format acceptable to the District Manager:
 - a. a summary and comprehensive interpretation of all monitoring data and analytical data collected relative to the Works during the reporting period and a comparison to the effluent quality criteria described in this Approval;
 - b. a description of any environmental and operating problems encountered and corrective actions taken during the reporting period; and
 - c. any other information the District Manager requires from time to time.

12. UNIT IDENTIFICATION

 The Owner shall ensure that each mobile treatment unit approved under this Approval is clearly marked with a unique identification number while in operation.

13. ANNUAL REPORT

1. The Owner shall prepare and submit a report to the District Manager of the North Bay Area Office, on an annual basis, which includes a summary of which mobile treatment units were operated during the previous calendar year, where they were operated and for how long they operated at each Site. This report shall be submitted within **ninety (90) days** following the end of the calendar year.

REASONS

The reasons for the imposition of these terms and conditions are as follows:

- 1. Condition 1 is imposed to ensure that the Works are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. Condition 1.(6) is included to emphasize that the issuance of this Approval does not diminish any other statutory and regulatory obligations to which the Owner is subject in the construction, maintenance and operation of the Works. The condition specifically highlights the need to obtain any necessary conservation authority approvals. The condition also emphasizes the fact that this Approval doesn't limit the authority of the Ministry to require further information.
- 2. Condition 2 is included to ensure that the Ministry records are kept accurate and current with respect to approved Works and to ensure that subsequent owners of the Works are made aware of the Approval and continue to operate the Works in compliance with it.
- 3. Condition 3 is included to ensure that the Works is operated in accordance with the information submitted by the Owner relating to the process and materials which are served by the Works, and to ensure that any contemplated changes in them which could potentially affect the characteristics of effluent from the Works will be properly reviewed and approved.
- 4. Condition 4 is included to ensure that the Works are only operated under conditions and in areas covered in the application for Approval.
- 5. Conditions 5 and 6 are included to require that the Works be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the Owner and made available to the Ministry. Such a manual is an integral part of the operation of the Works. Its compilation and use should assist the Owner in staff training, in proper plant operation and in identifying and planning for contingencies during

- possible abnormal conditions. The manual will also act as a benchmark for Ministry staff when reviewing the Owner's operation of the Works.
- 6. Condition 7 is included to ensure that the Ministry is notified when and where the mobile treatment units shall be deployed to ensure that their operation does not lead to impairment of the local environment.
- 7. Due to the nature of this operation, it is not practical to undertake the additional public consultation required by the *Environmental Bill of Rights* before issuance of the Approval, therefore, condition 8 is included to satisfy the additional public consultation requirements of the *Environmental Bill of Rights*, after this Approval is issued.
- 8. Conditions 9 and 10 are included to require the Owner to demonstrate on a continual basis that the quality of the effluent from the approved Works is consistent with the design objectives and effluent limits specified in the Approval and that the approved Works do not cause any impairment to the receiver.
- 9. Conditions 11, 12, and 13 are included to ensure that the Ministry is updated, on a regular basis, on the operations of the mobile treatment units approved under this Approval.

APPEAL PROVISIONS

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land Tribunal, within 15 days after the service of this notice, require a hearing by the Tribunal. You must also provide notice to, the Minister of the Environment, Conservation and Parks in accordance with Section 47 of the *Environmental Bill of Rights*, 1993 who will place notice of your appeal on the Environmental Registry. Section 142 of the *Environmental Protection Act* provides that the notice requiring the hearing ("the Notice") shall state:

- 1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- 2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

- 1. The name of the appellant;
- 2. The address of the appellant;
- 3. The environmental compliance approval number;
- 4. The date of the environmental compliance approval;
- 5. The name of the Director, and;
- 6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

and

This Notice must be served upon:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

The Minister of the Environment, Conservation and Parks 777 Bay Street, 5th Floor Toronto, Ontario M7A 2J3 The Director appointed for the purposes of Part II.1 of the *Environmental Protection Act* Ministry of the Environment, Conservation and Parks 135 St. Clair Avenue West, 1st Floor Toronto, Ontario M4V 1P5

and

^{*} Further information on the Ontario Land Tribunal's requirements for an appeal can be

obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or Ontario Land Tribunal's

This instrument is subject to Section 38 of the *Environmental Bill of Rights*, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <u>Environmental Registry of Ontario</u>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

Dated at Toronto this 28th day of September, 2025

Fariha Parnu.

Fariha Pannu

Director

appointed for the purposes of Part II.1 of the *Environmental Protection Act*

c: Nelson Carswell, JL FILTRATION OPERATING LIMITED PARTNERSHIP

The following schedules are a part of this environmental compliance approval:

Application for Environmental Compliance Approval Application for Industrial Sewage Work submitted by Nelson Carswell, JL FILTRATION OPERATING LIMITED PARTNERSHIP, and signed byNelson Carswell, Operations Manager, JL FILTRATION OPERATING LIMITED PARTNERSHIP, dated 05/06, 2025], and all supporting documentation and information.

TABLE 1:

Table 1 - Effluent Limits	
Column 1	Column 2
Effluent Parameters	Effluent Concentration (micrograms per litre unless otherwise indicated)
Petroleum Hydrocarbons	
Benzene	1
Ethylbenzene	2.4
Methyl Ethyl Ketone	400
Toluene	0.8
Total Petroleum Hydrocarbons (Light) (F1+F2)	900
Total Petroleum Hydrocarbons (Heavy) (F3+F4)	1000
m&p-Xylene	32
o-Xylene	40
Total Xylene	72

Effluent Limits in general based on Provincial Water Quality Objectives, Ontario Drinking Water Standards, Objectives and Guidelines and/or Full Depth Generic Site Condition Standards in a Potable Ground Water Condition (Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA).

TABLE 2:

INDEE 2.		
Table 2 - Effluent Limits		
Column 1	Column 2	
Effluent Parameters	Effluent Concentration (micrograms per litre unless otherwise indicated)	
Poly-Aromatic Hydrocarbons		
Acenaphthene	4.1	
Acenaphthylene	1	
Benzo(a)pyrene	0.01	
Naphthalene	7	
Phenanthrene	0.03	

Effluent Limits in general based on Provincial Water Quality Objectives, Ontario Drinking Water Standards, Objectives and Guidelines and/or Full Depth Generic Site Condition Standards in a Potable Ground Water Condition (Soil, Ground Water and Sediment Standards for Use Under

TABLE 3:

3 - Effluent Limits		
Column 2		
Effluent Concentration (micrograms per litre unless otherwise indicated)		
Chlorinated Solvents		
5		
1.6		
1.6		
1.6		
50		
0.2		
0.2		
0.2		
0.2		
0.2		
0.2		
1.1		
1		
1.6		
10		
0.7		
0.5		
4.7		
1.6		
0.79		
10		

TABLE 4:

Table 4 - Effluent Limits	
Column 1	Column 2
Effluent Parameters	Effluent Concentration

	(micrograms per litre unless otherwise indicated)
Other	
Total Suspended Solids	25 milligrams per litres
Polychlorinated Biphenyls (PCB) (Total PCBs)	0.001
Lead	See condition 9.2

TABLE 5a:

Table 5a - Effluent Limits	
Column 1	Column 2
Effluent	Effluent Concentration
Parameters	(micrograms per litre unless otherwise indicated)
	Metals
	*At pH 4.5 to 5.5 the limit is 15 micrograms per litre based on inorganic monomeric aluminum measured in clay-free samples. *At pH >5.5 to 6.5, no condition should be permitted which would increase the acid soluble inorganic aluminum concentration in clay-free samples to more than 10 percent (%) above natural background concentrations for waters representative of that geological area of the Province that are unaffected by manmade inputs.
Aluminum	*At pH >6.5 to 9.0, the limit is 75 micrograms per litre based on total aluminum measured in clay-free samples. *If natural background aluminum concentrations in water bodies unaffected by man-made inputs are greater than the numerical Interim PWQO (above), no condition is permitted that would increase the aluminum concentration in clay-free samples by more than 10 percent (%) of the natural background level.
Arsenic	5
Antimony	6

Effluent Limits in general based on Provincial Water Quality Objectives, Ontario Drinking Water Standards, Objectives and Guidelines and/or Full Depth Generic Site Condition Standards in a Potable Ground Water Condition (Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the EPA.

TABLE 5b:

Table 5b - Effluent Limits	
Column 1 Column 2	
	Effluent Concentration
Effluent Parameters	(micrograms per litre unless otherwise
	indicated)
	Metals
Barium	1,000
	11 (If Hardness is less than 75 milligrams per litre)
Beryllium	1100 (If Hardness is greater than 75 milligrams per
	litre)
Boron (total)	200
	0.1 (If Hardness is less than 100 milligrams per litre)
Cadmium	0.5 (If Hardness is greater than 100 milligrams per
	litre)
Chloride	640,000 (short term)
CHIOTIGE	120,000 (long term)
Chromium 3	8.9
Chromium 6	1
Cobalt	0.9
	1 (If Hardness is less than 20 milligrams per litre)
Copper	5 (If Hardness is greater than 20 milligrams per
	litre)
Iron	300
Manganese	50
Mercury	0.2 (in a filtered water sample)
Methyl Mercury	0.15
Molybdenum	40
Nickel	25
Selenium	10
Silver	0.1
Thallium	0.3
Tungsten	30
Uranium	5
Vanadium	6
Zinc	20

TABLE 6:

Column 2 Effluent Concentration (micrograms per litre unless otherwise indicated) thers 2700 2.4
(micrograms per litre unless otherwise indicated) thers
2700
2.4
2.7
25
590
0.2
0.2
51
640
5
1
0.04
0.5
150
5 (free cyanide in an unfiltered water sample)
1.5 milligrams per litre
40 111 114
10 milligrams per litre

TABLE 7a:

Table 7a - Effluent Limits		
Column 1	Column 2	
Effluent Parameters	Effluent Concentration (micrograms per litre unless otherwise indicated)	
Volatile Organic Compounds		
Bromodichloromethane	16	
Bromoform	25	
Bromomethane	0.89	

Chlorobenzene	15
Chloromethane	700
1,2-Dichlorobenzene	2.5
1,3-Dichlorobenzene	2.5
1,4-Dichlorobenzene	1
3,3'-Dichlorobenzidine	0.6
1,2-Dichloropropane	0.7
Methyl-tert-butyl-ether (MTBE)	15
Trans-1,3-Dichloropropylene	7
1,2,4-Trichlorobenzene	0.5
Diethylhexylphthalate [Bis(2-ethylhexyl)phthalate]	0.6
Dibutylphthalate [Di-n-butyl phthalate]	4
1-Methylnaphthalene	2
2,4,5-Trichlorophenol	5
2,4,6-Trichlorophenol	2
2,4-Dimethylphenol	10
2,4-Dinitrophenol	10
2,4-Dinitrotoluene	4
2,6-Dinitrotoluene	5
2-Chlorophenol	8.9
2-Methylnaphthalene	2
3,3'-Dichlorobenzidine	0.5
Anthracene	0.0008
Benz[a]anthracene	0.0004
Benzo[b]fluoranthene	0.1
Benzo[g,h,i]perylene	0.00002
Benzo[k]fluoranthene	0.0002
Biphenyl	0.2
Dioxin / Furan (TEQ)	0.000015

TABLE 7b:

Table 7b - Effluent Limits	
Column 1	Column 2
Effluent Parameters	Effluent Concentration (micrograms per litre unless otherwise

	indicated)	
Volatile Organic Compounds		
Bis(2-chloroethyl)ether	5	
Bis(2-chloroisopropyl)ether	120	
Chrysene	0.0001	
Dibenz(a,h)anthracene	0.002	
Diethyl Phthalate	0.2	
Dimethylphthalate	0.2	
Fluoranthene	0.0008	
Indeno(1,2,3-cd)pyrene	0.2	
p-Chloroaniline	10	
Pentachlorophenol	0.5	
Pyrene	4.1	
Methylnaphthalene, 2-(1-)	2	
1,4-Dioxane	20	
Nitrobenzene	0.02	

TABLE 8:

Table 8 -	Effluent Limits
Column 1	Column 2
Effluent Parameters	Effluent Concentration (micrograms per litre unless otherwise indicated)
	Others
DDD	0.003
DDE	0.003
DDT	0.003
Endosulfan	0.003
Aldrin	0.001
Chlordane	0.06
Dieldrin	0.001
Endrin	0.002
Heptachlor	0.001
Heptachlor Epoxide	0.001

Hexachlorobenzene	0.0065
Hexachlorobutadiene	0.009
Hexachloroethane	1
Hydrogen Sulphide	2
Ammonia (un-ionized)	20
Total Phosphorus	10
Total Zirconium	4
Acrolein	0.03
Tetrachlorophenol	1
Trichlorophenols	5
Perylene	0.00007
Methoxychlor	0.04
Lindane	0.01

TABLE 9a:

Table 9a - Effluent Limits			
Column 1	Column 2		
Effluent Parameters	Effluent Concentration		
Lilidelit Farailleters	(becquerels per litre unless otherwise indicated)		
	Radionuclides		
Radionuclides (grouped):	If two or more radionuclides affecting the same organ or tissue are found to be present, the following relationship based on ICRP Publication 26 should be satisfied:		
	$ \begin{array}{cccc} c_1 & c_2 & c_i \\ \hline -+-+ & & - & \leq 1 \\ C_1 & C_2 & C_i \end{array} $		
Cesium Iodine Radium Strontium Tritium	where c1, c2 and ci are the observed concentrations and C1, C2 and Ci are the maximum acceptable concentrations for each contributing radionuclide. 50.0 10.0 1.0 7000.0		

4000
70
0.1
0.2
2.0
0.6
0.5
2.0
0.4
0.1
20.0
4
4
4
0.2
50.0
40.0
100.0

TABLE 9b:

Table 9b - Effluent Limits		
Column 1	Column 2	
Effluent Parameters	Effluent Concentration (becquerels per litre unless otherwise indicated)	
Radionuclides		
Barium-140	40.0	
Bromine-82	300.0	
Calcium-45	200.0	
Calcium-47	60.0	
Carbon-14	200.0	
Cerium-141	100.0	
Cerium-144	20.0	
Cesium-131	2000.0	
Cesium-134	7.0	
Cesium-136	50.0	

Cesium-137	10.0
Chromium-51	3000.0
Cobalt-57	40.0
Cobalt-58	20.0
Cobalt-60	2.0
Gallium-67	500.0
Gold-198	90.0
Indium-111	400.0
Iodine-125	10.0
Iodine-129	1.0
Iodine-131	6.0
Iron-55	300.0
Iron-59	40.0
Manganese-54	200.0
Mercury-197	400.0
Mercury-203	80.0
Molybdenum-99	70.0
Neptunium-239	100.0
Niobium-95	200.0
Phosphorus-32	50.0
Plutonium-238	0.3
Plutonium-239	0.2
Plutonium-240	0.2
	-

TABLE 9c:

Table 9c - Effluent Limits			
Column 1	Column 2		
Effluent Parameters	Effluent Concentration (becquerels per litre unless otherwise indicate		
Radionuclides			
Plutonium-241	10.0		
Rhodium-105	300.0		
Rubidium-81	3000.0		
Rubidium-86	50.0		
Ruthenium-103	100.0		

Ruthenium-106	10.0
Selenium-75	70.0
Silver-108m	70.0
Silver-110m	50.0
Silver-111	70.0
Sodium-22	50.0
Strontium-85	300.0
Strontium-89	40.0
Strontium-90	5.0
Sulphur-35	500.0
Technetium-99	200.0
Technetium-99m	7000.0
Tellurium-129m	40.0
Tellurium-131m	40.0
Tellurium-132	40.0
Thallium-201	2000.0
Tritium	7000.0
Ytterbium-169	100.0
Yttrium-90	30.0
Yttrium-91	30.0
Zinc-65	40.0
Zirconium-95	100.0

TABLE 1:

TABLE 1 - Monitoring Requirements		
Sampling Port (Location #1): sampling p	ort at the system inlet.	
Sampling Port (Location #2): effluent dis	charged from the Work.	
Where more than one mobile treatment	unit is deployed sampling ports shall be established at	
the same locations as above with sample	es measuring average values of the parameters	
coming out of the different train combin	nations; provided internal controls are established to	
detect when break through occurs in an	y vessel.	
FREQUENCY	Location # 1: Once a day for the first week of	
	operation then once a week thereafter.	
	Location #2: in accordance with condition 10.(3)	
SAMPLE TYPE	Grab	
PARAMETERS	All parameters identified pursuant to condition 6.(1)	
	(a)	

FORM 1 NOTICE OF INTENDED LOCATION

FORM 1: NOTICE OF INTENDED LOCATION

Name of Owner/Operator:

Address of Owner/Operator:

Name of Contact person(s):

Telephone number(s) of Contact Person(s):

Environmental Compliance Approval Number & Date of Issuance:

Proposed Location of Mobile Groundwater Treatment Unit: (street address and municipality or lot and concession number)

Land use in the immediate vicinity of the Site:

Identify the Source of Contamination:

Listing of Parameters Present and Concentrations:

Date of Commencement of Operation:

Estimated Duration of Operation:

Will additional public consultation in compliance with S. 28(1) of the *Environmental Bill of Rights* be conducted within **five (5) days** prior to the commencement of operation of the Works?

Must attach a **Scaled Site Plan** indicating the location of the equipment relative to all on–site structures, all property lines, drainage ditches, wells and surface water courses and the discharge location of the Works.

Reportable Detection Limits for the 25 Per-and PolyFluoroAlkyl Substances

Compound	Acronym	Reportable Detection Limit (nanogram per litres)
Perfluoroalkyl Carboxylic	Acids (PFCAs)	
Perfluorobutanoic acid	PFBA	1
Perfluoropentanoic acid	PFPeA	1
Perfluorohexanoic acid	PFHxA	1
Perfluoroheptanoic acid	PFHpA	1
Perfluorooctanoic acid	PFOA	0.5
Perfluorononanoic acid	PFNA	0.5
Perfluorodecanoic acid	PFDA	0.5
Perfluoroundecanoic acid	PFUnA	1
Perfluorododecanoic acid	PFDoA	1
Perfluoroalkane Sulfonio	Acids (PFSAs)	
Perfluorobutanesulfonic acid	PFBS	1
Perfluoropentanesulfonic acid	PFPeS	1
Perfluorohexane sulfonic acid	PFHxS	1
Perfluoroheptanesulfonic acid	PFHpS	1
Perfluorooctane sulfonic acid	PFOS	0.5
Fluorotelomer Sulfo	nic Acids	
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	4:2 FTS	2
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	6:2 FTS	2
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	8:2 FTS	2
Per-and Polyfluoroether C	arboxylic Acid	S
Hexafluoropropylene oxide dimer acid	HFPO-DA	1
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	1
Perfluoro-3-methoxypropanoic acid	PFMPA	1
Perfluoro-4-methoxybutanoic acid	PFMBA	1
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	1
Ether Sulfonic A	Acids	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9CI-PF3ONS	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	2
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	1
From: Objectives for Canadian Drinking Water Qua	lity Per-and Po	lyFluoroAlkyl Substances

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