



GOVERNMENT
OF
NEWFOUNDLAND AND LABRADOR
Department of Environment and Climate Change
CERTIFICATE OF APPROVAL

Pursuant to the *Environmental Protection Act, SNL2002, Sections 16, 78 and 83.*

Issued: April 30, 2023
Expiration: April 30, 2026

Approval No.: WMS-21-04-002

Proponent: Feltham's Construction Ltd.
P.O. Box 86
Glovertown, NL
A0G 2L0

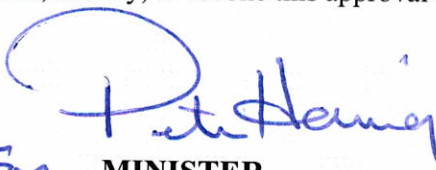
Attention: Mr. Elvis Feltham

Re: Waste Management Certificate of Approval for a Septic Waste Treatment Facility (Grants Pit)

Approval is hereby given for the operation of a septic waste treatment facility located at **48°43'39.59"N, 54°10'48.76"W** near Grants Pit (10 km east of Gambo). The treatment facility is a dewatering and septic field system consisting of an in-ground cement holding and mixing tank, a concrete containment pad, geotextile (MACTUBE) dewatering tubes, and an engineered septic field.

This approval does not release the holder from the obligation to obtain appropriate approvals from other concerned provincial, federal, and municipal agencies. Approval from the Department of Environment and Climate Change (the Department) shall be obtained prior to any significant change in the design, construction, installation, or operation of the facility, including any future expansion of the works. This certificate shall not be sold, assigned, transferred, leased, mortgaged, sublet, or otherwise alienated by the holder without obtaining written prior approval from the Minister.

This approval is subject to the terms and conditions attached hereto, and may be revised from time to time by the Department. The terms and conditions form part and parcel of this certificate of approval. Failure to comply with any of the terms and conditions may render this certificate of approval null and void, may require the proponent to cease all activities associated with this certificate of approval, may place the proponent and its agent(s) in violation of the *Environmental Protection Act, SNL., 2002, c. E-14-2*, and will make the proponent responsible for taking such remedial measures as may be prescribed by the Department. The Department reserves the right to add, modify, or revoke this approval at any time.


For **MINISTER**

General

1. Prior to the expansion or modification of the waste management system, a letter of application shall be forwarded to the Department requesting an amendment to this approval.

Operations

2. Approval is given for the operation of the sewage and septic waste treatment facility and located at 48°43'39.59"N, 54°10'48.76"W, Newfoundland. Feltham's Construction Ltd. is responsible for this activity.

Definitions

3. In this Certificate of Approval:
 - **adverse effect** means an effect that impairs or damages the environment and includes an adverse effect to the health of humans;
 - **CCME** means Canadian Council of Ministers of the Environment;
 - **contaminant** means, unless otherwise defined in the regulations, a substance that causes or may cause an adverse effect;
 - **Department** means the Department of Environment and Climate Change;
 - **Director** means the Director of the Pollution Prevention Division of the Department;
 - **glycol** means glycol that, through use, storage or handling, can no longer be used for its original purpose;
 - **Proponent** means Feltham's Construction Ltd.;
 - **QA/QC** means Quality Assurance/Quality Control;
 - **Regional Director** means the Director of the nearest Digital Government and Service NL regional office;
 - **sludge** means muddy or slushy mass, deposit, or sediment;
 - **solid** means firm and stable in shape (not liquid or fluid);
 - **TPH** means total petroleum hydrocarbons as measured by the Atlantic PIRI method;
 - **TSS** means total suspended solids;
 - **used oil** means oil that, through use, storage and handling, can no longer be used for its original purpose.

Application Submission

4. The following submissions have been received by the Department to support this request for a Certificate of Approval:
 - A formal request via email requesting a Certificate of Approval for the operation of a facility for the treatment of septic wastewater;

Emergency Preparedness

5. The proponent shall maintain an environmental emergency and contingency plan and submit

a current copy and annual updates for review and approval by the Department by January 31 of the following year.

6. The proponent shall ensure that this approval, or a copy, is kept on site at all times and that personnel directly involved in the operation of the sewage waste treatment system are made fully aware of the terms and conditions which pertain to this approval.
7. All responsible personnel who are directly involved with the operation and maintenance of the processing system shall be provided copies of this approval.
8. For after-hours emergencies and spill reporting call: **1-800-563-9089** or **(709) 772-2083**.
9. All appropriate health and safety procedures shall be constantly maintained at the site in accordance with applicable legislation.
10. Pre-engineered treatment system(s) shall be operated and maintained in accordance with the manufacturer's operating and maintenance specifications and health and safety plan.
11. The operator(s) shall have petroleum fire and spill response training.
12. The Minister may at any time, with reasonable notice, require the proponent to conduct or have conducted environmental studies, site assessments, sampling, testing, or investigations where, based upon reasonable and probable grounds, the Minister is of the opinion that this waste management system may have had, or has the potential to have, an adverse effect on the environment.

Digital Government and Service NL

13. Through a Memorandum-of-Understanding this Department has authorized the Department of Digital Government and Service NL to act on its behalf in inspecting and/or auditing this operation for compliance under this approval and all applicable provincial Acts and Regulations.

Legislation

14. The activities associated with this operation may involve, but not be limited to, the following provincial Acts and Regulations, policies, guidelines and their successors:
 - *Dangerous Goods Transportation Act*;
 - *Fire Prevention Act, 1999*;
 - *Environmental Protection Act, 2002*;
 - *Air Pollution Control Regulation, 2022*;
 - *Halocarbon Regulations, 2005*;
 - *Storage and Handling of Gasoline and Associated Products Regulations, 2003*;
 - *Used Oil and Used Glycol Control Regulations, 2018*;

- *Water Resources Act, 2002;*
 - *Environmental Control Water and Sewage Regulations, 2003;*
 - *GD-PPD-066 Sampling of Water and Wastewater – Industrial Effluent Applications;*
 - *Accredited Laboratory Policy PD:PP2001-01.2;*
 - *Effluent Discharge Schedule Determination Policy for Industries PD:PP2013-01.*
15. The activities associated with this operation may involve, but not be limited to, the following federal Acts and Regulations and their successors:
- *Canadian Environmental Protection Act, 1999 and Regulations;*
 - *Interprovincial Movement of Hazardous Waste and Hazardous Recyclable Materials Regulations;*
 - *Export and Import of Hazardous Waste and Hazardous Recyclable Materials Regulations;*
 - *CCME Canadian Environmental Soil Quality Guidelines*
 - *CCME Guidelines for Compost Quality*
 - *Transportation of Dangerous Goods Act and Regulations*
 - *Fisheries Act*
 - *National Fire Code*

Financial Assurance

16. Valid environmental liability impairment insurance in the minimum amount of \$1,000,000 shall be maintained and proof shall be submitted to the Department within 90 days of the issuance of this approval otherwise it shall be null and void.
17. A surety bond of \$10,000 shall be on file with the Department within 90 days of the issuance of this approval otherwise it shall be null and void.
18. Annual updates of the financial assurance documents shall be filed with the Department.
19. The proponent shall provide the Department with three months advance notice if they intend to cancel coverage and/or change the insurer or bonding agent.

Air Emissions

20. The proponent shall comply with the *Air Pollution Control Regulations, 2022* at all times. Schedule E of the regulations prohibits the open burning of tire; plastics; treated lumber; asphalt; asphalt products; drywall; demolition waste; hazardous waste; biomedical waste; domestic waste; trash, garbage, or other waste from commercial, industrial or municipal operations; manure; rubber; tar paper; railway ties; paint and paint products; fuel and lubricant containers; used oil; animal cadavers; hazardous substances; materials disposed of as part of the removal of decontamination of equipment, buildings or other structures.

Spill Prevention

21. Areas in which chemicals are used or stored shall have impermeable floors and dykes or curbs and shall not have a floor drain system, nor shall it discharge to the environment. Areas inside the dykes or curbs shall have an effective secondary containment capacity of at least **110%** of the chemical storage tank capacity, in the case of a single storage container. If there is more than one storage container, the dyked area shall be able to retain no less than **110% the capacity of the largest container or 100% of the capacity of the largest container plus 10% of the aggregate capacity of all additional containers, whichever is greater**. These dyked areas shall be kept clear of material that may compromise the capacity of the dyke system. Once a year, the dykes shall be visually inspected for their liquid containing integrity, and repairs shall be made when required. Once every ten years, the dykes shall be inspected, by a means other than visual inspection, for their liquid containing integrity, and repairs shall be made when required.

Geotube Performance

22. Neither the Department nor Digital Government and Service NL has conducted or required any performance testing to confirm claims of the proponent and/or the manufacturer. The issuance of this approval is not to be interpreted as certification of the Geotube technology.
23. All connections, couplings, hoses, lines, tanks, sumps, machinery, pumps, and all other components of the septic waste treatment equipment shall be liquid tight. In the event of a leak or spill the necessary repairs are to be made immediately.
24. The proponent shall ensure that all Geotube infrastructure is operated as per the manufacturer's guidelines and specification.

Septic Field Performance

25. The septic field must be operated as per the direction of the Department of Digital Government and Service NL.
26. The proponent shall ensure that any plans to alter or expand the septic field must first be approved by the Department of Digital Government and Service NL.

Acceptable Sludge

27. The proponent shall not store on site or process excrement of any type other than that which is human in origin.
28. All human sewage waste delivered to the site shall be processed through the Geotube and septic field.
29. Liquid effluent generated by the Geotube dewatering system shall be discharged at the approved rate and volume into the on-site septic field and not discharged into any municipal sewage system.

30. Any importation of sewage sludge from outside the Province requires approval in advance by the Department. This does not include airport, seaport, or bus terminal generated wastes.
31. All dewatered sludge stored or treated on site shall be placed on an impermeable surface (permeability $<10^{-7}$ cm/sec), or placed in sealed containers. Acceptable materials for the impermeable surface include synthetic liners, asphalt, or concrete. Naturally occurring or imported compacted soil is not considered acceptable for use as an impermeable surface regardless of its permeability. The impermeable surface shall be designed to collect and direct liquids into the approved sewage containment or disposal system.

Composting of Dewatered Bio-Solids

32. Prior to moving dewatered bio-solids from the site, a written proposal shall be submitted to the Department for approval.
33. If further composting or curing of dewatered bio-solids is determined to be required to increase quality for beneficial reuse, an application shall be made to the Department for an amendment to this approval. Adequate space shall be reserved on site for composting and curing activities should they be required.
34. Prior to compost being moved from the site it must be tested to ensure that it meets Class B of the CCME Compost Quality Guidelines. If compost does not meet Class B of the CCME Compost Quality Guidelines it must be disposed of at an approved waste disposal facility, with permission of the operator of the waste disposal site.

Effluent Monitoring and Discharge

35. Only effluent generated from the dewatering facilities specified in this approval shall be directed through the onsite septic field.
36. Discharge of untreated septic/septic supernatant into the environment or a municipal sewer system is not permitted.

Groundwater Monitoring Program

37. The proponent shall perform a Groundwater Monitoring Program four times per year at least 30 days apart as per **Table 1**. All results shall be submitted to the Department as per the **Reporting** section.

Table 1 – Groundwater Monitoring Program

Location	EDMS Code	Parameters
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MW21-1	00797	General Parameters: nitrate + nitrite, nitrate, nitrite, pH, colour, sodium, potassium, calcium, sulphide, magnesium, ammonia, alkalinity, sulphate, chloride, fluoride, turbidity, reactive silica, orthophosphate, phosphorous, DOC, conductance, TDS (calculated), phenol, carbonate (CaCO ₃), hardness (CaCO ₃), bicarbonate (CaCO ₃), cyanide, TPH, total coliforms, fecal coliforms. Metals Scan: aluminium, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, mercury, nickel, selenium, silver, strontium, thallium, tin, titanium, uranium, vanadium, zinc.
MW21-2	00798	
MW21-3	00799	

Laboratory Analysis & QA/QC

38. Unless otherwise stated herein, all solids and liquids analysis performed pursuant to this Approval shall be done by either a contracted commercial laboratory or an in-house laboratory. Contracted commercial laboratories shall have a recognized form of accreditation. In-house laboratories have the option of either obtaining accreditation or submitting to an annual inspection by a representative of the Department, for which the proponent shall be billed for each laboratory inspection in accordance with Schedule 1 of the **Accredited Laboratory Policy (PD:PP2001-01.2)**. Recommendations of the Department stemming from the annual inspections shall be addressed within 6 months; otherwise further analytical results shall not be accepted by the Department.
39. If the proponent wishes to perform in-house laboratory testing and submit to an annual inspection by the Department then a recognized form of proficiency testing recognition shall be obtained for compliance parameters for which this recognition exists. The compliance parameters are listed in the **Groundwater Monitoring Program** section. If using a commercial laboratory, the proponent shall contact that commercial laboratory to determine and to implement the sampling and transportation QA/QC requirements for those activities.
40. The exact location of each sampling point shall remain consistent over the life of the monitoring programs, unless otherwise approved by the Department. The proponent shall bear all expenses incurred in carrying out the environmental monitoring and analysis required under conditions of this Approval.

Monitoring Alteration

41. The Department has the authority to alter monitoring programs or require additional testing at any time when:
 - pollutants might be released to the surrounding environment without being detected;

- an adverse environmental effect may occur; or
 - it is no longer necessary to maintain the current frequency of sampling and/or the monitoring of parameters.
42. The proponent may, at any time, request that the monitoring program or requirements of this approval be altered by:
- requesting the change in writing to the Director; and
 - providing sufficient justification, as determined by the Director.
43. The requirements of this Approval shall remain in effect until altered, in writing, by the Department.

Reporting

44. An annual report shall be submitted to the Department by January 31st, each year summarizing the proponent's activities the previous year. Also, this report shall include the current insurance and bonding documents as specified in the *Emergency Preparedness* and *Financial Assurance* sections and any updates to the *Contingency Plan*.
45. Records documenting all septic waste that has been disposed of at the proponent's facility shall be collected and provided to the Department every three (3) months as per the schedule below. The report shall include the name(s) of the septic hauler as well as the amount of waste disposed of at the facility.

Reporting Period	Reporting Due Date
January 1 st – March 31 st	April 15 th
April 1 st – June 30 th	July 15 th
July 1 st – September 30 th	October 15 th
October 1 st – September 31 st	January 15 th

46. Monthly reports containing the environmental compliance monitoring and sampling information required in this Approval shall be received by the Department in digital format within 30 calendar days of the reporting month. All related laboratory reports shall be submitted with the monthly report in XML format and Adobe Portable Document Format (PDF). Digital report submissions shall be uploaded through the EDMS web portal. The Pollution Prevention Division shall provide details of the portal web address and submission requirements.
47. Each monthly report shall include a summary of all environmental monitoring components and shall include an explanation for the omission of any requisite data. The Monthly summary reports shall be in Microsoft Words or Adobe PDF format and shall be uploaded through the EDMS web portal with the data submissions. In the event that there are no monthly monitoring submissions performed during the month, a monthly summary report is still required to be submitted to EDMS that indicates that there were no components performed.

48. All incidents of :

- contingency plan implementation;
- non-conformance of any condition within this approval;
- spillage or leakage of a regulated substance;
- discharge criteria being, or is suspected of being, exceeded; or
- verbal or written complaints of an environmental nature received from the public by the proponent and related to the facility, including complaints submitted anonymously;

shall be immediately reported, within one working day, to a person or message manager or facsimile machine at Digital Government and Service NL by phoning or faxing or via email.

Digital Government and Service NL (Gander)
230 Airport Boulevard
P.O. Box 2222
A1V 2N9
Telephone: (709) 256-1420
Facsimile: (709) 256-1438

49. A written report including a detailed description of the incident, summary of contributing factors and an action plan to prevent future incidents of a similar nature, shall be submitted to the respective Regional Director. The Action plan shall include a description of actions already taken and future actions to be implemented, and shall be submitted within thirty days of the date of the initial incident.

Expiration

50. This approval expires on **April 30th, 2026**. Should the proponent wish to continue to operate beyond this expiry date, a written request shall be submitted to the Department for the renewal of this Approval. Such request shall be made **2 months prior** to expiration.

c.c. Robert Locke, Director
Pollution Prevention Division
Department of Environment and Climate Change
rolocke@gov.nl.ca

Christopher Parsons, Manager Operations and Environmental Protection
Digital Government and Service NL
chriswparsons@gov.nl.ca