ALTERNATE FILL MOUND REQUIREMENTS CENTRAL FRASER VALLEY HEALTH UNIT

	= 7					
Percolation Rate in Natural Soil Minimum Amount of Distribution Pipe Required/Foot	16 - 30 minutes/inch			Additional distribution pipe will be determined by the	Environmental Health Officer	
Percolation J Minimum Amount of Dis	1-15 minutes/inch	250	300	350	400	450
Septic Tank Volume in Gallons	(min. req.)	500	009	750	006	1100
Estimated Daily Sewage Flow in	Gallons	250	300	375	450	550
Number of Estimated Bedrooms Daily Sewin		1-2	3	4	5	9

	Fill Area (Top)	4200 sq ft (60 x 70)	4800 sq ft (60 x 80)	5600 sq ft (70 x 80)
TYPICAL FILL AREA DIMENSIONS (FEET)	Fill Area (Base)	7200 sq ft (80 x 90)	8000 sq ft (80 x 100)	9000 sq ft (90 x 100)
TYPICAL FILL ARE	Minimum Pipe Length	250 feet	300 feet	350 feet
	Number of Bedrooms	1-2	3	4

solid pipe (4")	Distribution pipe shall be laid across the slope of the land.	pe of the land.
Septic	Distribution Box Approved pipe or tile	pipe or tile
3' min	Meximum slope in pipe is 4 inches in 100 ft.	00 ft. 20
	10' min. E Meximum pipe length 100'	ength 100'

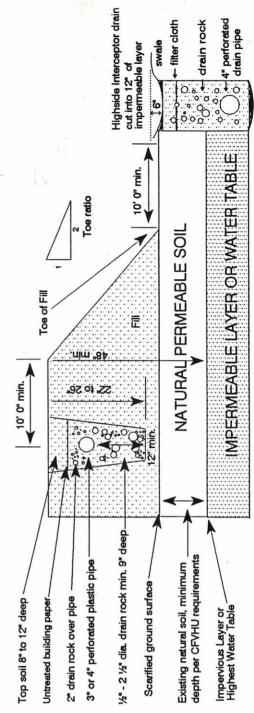
TYPICAL FILL MOUND LAYOUT

INSTALLATION NOTES

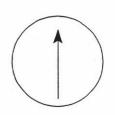
- A fill mound shall not be located less than:
 - 10 feet from a parcel boundary 10 feet from a building
- 50 feet from a curtain drain
- 10 feet from a intercepter drain
- 100 feet from a source of domestic water
- 100 feet from a natural boundary of a lake or other body of non-tidal water
- 10 feet from a domestic water pipeline
- SEPARATION DISTANCES are measured from the toe of the fill •
- Site preparation and mound construction shall not commence until written authorization has been received from an Environmental Health Officer and only when the site is completely dry. Consult your EHO if in doubt.

4

- A receiving area of at least 50 feet may be required if there are breakout points, ie. excavations or exposed impervious A completed Fill Information Sheet with percolation information on fill material must be submitted after fill placement. ت. 4_.
- Soil may not be stripped or removed within 50 feet downslope and sideslope of a built-up absorption field layers in a ditch, or curtain drains down slope.
 - An interceptor drain is required on the highside of the fill mound if it is located on a slope.
 - Alternate fill mound shall not be located on slope greater than 12% grade.
- The fill mound must be free from all rocks, stumps, branches, turf and debris.
- Environmental Health Officer may require gentler toe ratio than 2:1. (2 horizontal to 1 vertical)
- For details of Package Treatment Plant trench construction standards consult your Environmental Health Officer. The finished mound shall be crowned or sloped to provide maximum surface run-off. . 6. 6. 7. 10. 10. 11.

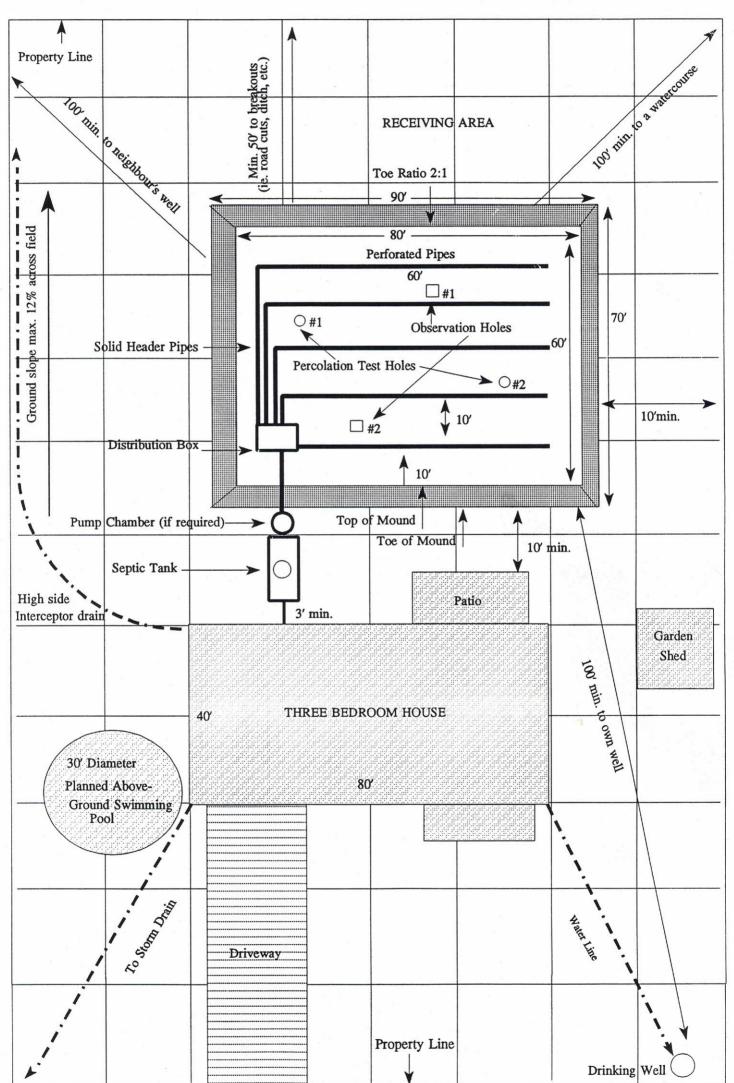


SAMPLE DIAGRAM FILL MOUND SYSTEM



SCALE: 1":20'

INSERT NORTH ARROW



- Don't allow roof or perimeter drains, or any surface water, to discharge into or nearby the sewage disposal system;
- Don't overload the system with water via continuously running toilets or dripping faucets;
- Don't flush away cigarette butts, filters, sanitary napkins, newspaper, disposable diapers, condoms, facial tissue, paper towels, hair, metal or metal items, coffee grounds, tea leaves, fats or grease as these can all plug a septic tank or a drain field;
- Don't install a garburetor without increasing the size of your tank and field;
- Use water sparingly;
- In areas where frost penetration is a problem, insulate the main pipe and disposal area with a generous layer of straw during winter months.
 Insulate the tank and pipe connection from the house as well;
- Don't leave the system inoperative for long periods during cold winter months;
- Use snow fences to promote maximum insulation from snow cover;
- If water pools up on a disposal area, seek advice from your Environmental Health Officer.

Servicing A Septic Tank

Although septic tanks should be inspected every year. they typically need servicing every two to three years (depending on the number of people using the system and the volume of daily sewage flow). Here are a few things to keep in mind:

- Septic tanks need servicing when the sludge is 45 centimetres (18 inches) from the bottom of the outlet pipe, or if the scum is within 8 centimetres (3 inches) of the outlet pipe;
- Remove sludge in the spring rather than in the fall, as this prevents leaving undigested solids in the tank during the cold winter months;
- Don't scrub a septic tank clean. A small amount of sludge should be left to renew bacterial activity;
- When it's septic servicing time, check the Yellow Pages for firms equipped for this work.

sewage systems work, or about local requirements, then contact your local Environmental Health If you have any further questions about how Officer at your nearest Health Unit office

In other cases, particularly in the colder regions of the province, assessments cannot be made during the winter.

Prospective builders should therefore plan to have all necessary tests performed at the time of year appropriate for local weather conditions. Your EHO can advise you further.

What about the "Appeal" Period?

Once your permit has been initially approved, your neighbours will then have 30 days in which to appeal the granting of the permit to the Environmental Appeal Board (see Environmental Appeal Board brochure). You must post a notice of the proposed sewage disposal system in a conspicuous place on your property, including a site map clearly showing the system's exact location and extent.

The appeal process is open to anyone who feels that they might be negatively affected by your proposed sewage disposal system — for example, if they draw their drinking water from a nearby shallow well, or are "downstream" of your sloped property.

Alternatively, anyone whose application for a sewage disposal permit is turned down also has 30 days to appeal that decision to the Environmental Appeal Board.

How does the Appeal Process work?

Appeals regarding the issuance (or non-issuance) of a sewage disposal permit are heard by an independent body known as the Environmental Appeal Board. Whenever the issuance of a permit already granted is being grieved, the property owner's or lot buyer's interests will be represented by an Environmental Health Officer from the local Health Unit. The EHO will defend his or her decision to have granted the sewage disposal permit in the first place. Anyone interested in filing an appeal — either regarding the issuance OR the non-issuance of a permit — should ask at their local Health Unit for a brochure that explains this appeal procedure in more detail.

What else Should I be Aware of?

Not only are sewage disposal permits only valid for one year — they are NOT transferable. Because different owners often have different site plans for sewage disposal systems, the specifics of each proposed system have to be judged on their own merits.

Generally, land buyers are advised to give themselves plenty of time when planning to buy an undeveloped lot. Aside from the 30-day notice-of-appeal period once a permit has been issued, it can take up to 60 days more before a grievance may be heard by the Environmental Appeal Board.

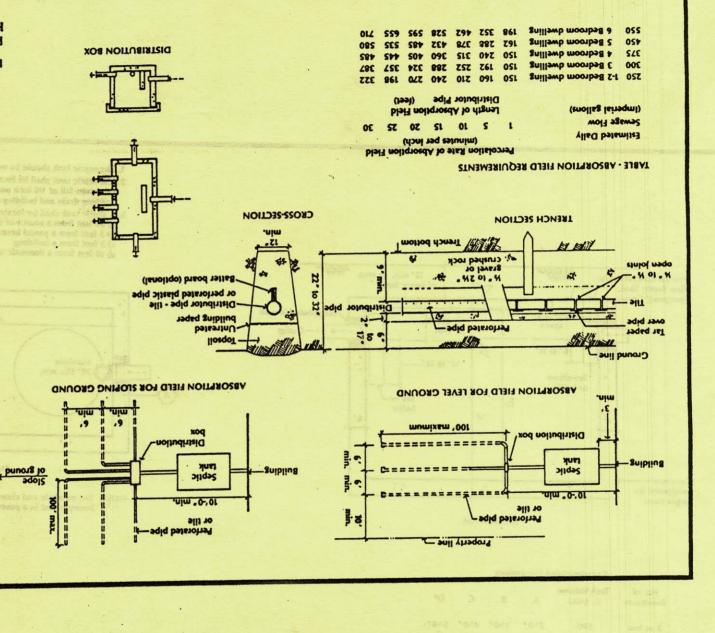
IMPORTANT NOTICE:

A person who decides to proceed with the construction of a sewage system AFTER the permit has been issued but BEFORE the 30 day appeal period has passed must realize that there is a risk that the permit may be appealed, and that the Environmental Appeal Board may overrule the EHO's decision and revoke or cancel the permit.

Under these circumstances, the board has the authority to have the offending system removed. For this reason, property owners are strongly advised NOT to proceed with ANY construction on-site until the 30 day appeal period has passed and no appeals have been submitted.

If you have any further questions about obtaining sewage disposal approvals, please call your public health unit or department.

NOTE: See also Health File #21a - Operation and Maintenance of Sewage Disposal Systems.



HODSEHOLD SEWACE ABSORPTION FIELDS RECOMMENDED LAYOUT/DETAILS FOR

IMPERIAL



Ministry of Health Province of British Columbu

> PROTECTION MASSH

> > scribed to protect the sewage disposal system & A sewage disposal system must be located, constructed and the ground surface land-

distributor pipe length exceeds 500 leet. 7. Doeing chambers are required when

of the land.

6. Distributor pipe shall be laid across the slope

or vented.

5. Dead ends of distributor pipe shall be plugged

parting motor vehicles c) under an area used or intended for

b) under a paved area Ampeor a roadway

4. An absorption field shall not be located:

n 10 feet from a domestic water pipeline lake or other body of non-tidal water

a lo ylabruod latutan a mort tool 001 (s d) 100 feet from a source of domestic water

c) 10 feet from a curtain drain

b) 10 feet from a parcel boundary 20 To feet from a building

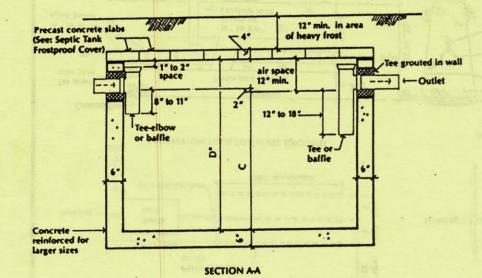
3. An absorption field shall NOT be located less

2. Maximum percolation rate is 30 minutes per

natural ground surface.

layer, or bedrock if 4 feet or greater below the where the ground water table, impervious 1. Located the conventional absorption field

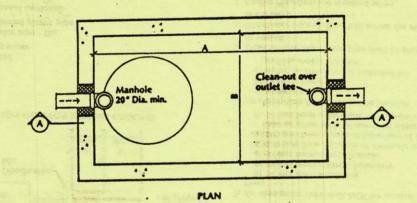
NOTES



1. The septic tank should be watertight.

2. The septic tank shall be located to provide a minimum fall of 1/8 inch per foot in the building drain and building sewer.

3. A septic tank shall be located not less than:
a) 50 feet from a source of domestic water;
b) 3 feet from a parcel boundary;
c) 3 feet from a building;
d) 10 feet from a domestic water pipeline.

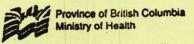


NOTE: The manhole and clean-out must be incorporated in a poured in place lid.

Recommended Dimensions

No. of Bedrooms	Tank Volume (I. gals.)	A	В	c	D*
2 or less	500	7'-0"	3'-0"	4'-0"	5'-0"
3	600	8'-1"	3'-0"	4'-0"	5'-0"
4	750	8'-1"	3'-9"	4'-0"	5'-0"
5	900	9'-1"	4'-0"	4'-0"	5'-0"
6	1,100	10'-0"	4'-6"	4'-0"	5'-6"





RECOMMENDED DESIGN FOR HOUSEHOLD SEPTIC TANKS IMPERIAL

Ministry of Health and Ministry Responsible for Seniors

> Number 21b February 1995

On-Site Sewage Disposal System Permits For Undeveloped Lots

Is it Necessary to get a Sewage Disposal Permit for an Undeveloped Lot?

You are legally required to get approval from your local Health Unit or Department BEFORE installing any kind of sewage disposal system (such as a septic field). These sewage disposal system permits are NOT a right of ownership. They are only granted after the site has been inspected by an Environmental after the lot must have the appropriate soil and drainage characteristics that will safely support an on-site sewage disposal system, and adequate "set back" distances from property lines and water courses.

What does this Mean for Someone Buying an Empty Lot?

You can never assume that ANY undeveloped lot will automatically qualify for installation of a sewage automatically qualify for installation of a sewage disposal system. Anyone buying an undeveloped lot as a prospective home site is responsible for as a prospective home site is responsible for disposal permit. Always remember the rule of "buyer beware." If you make an offer to purchase a bare lot with the intention of building a house on it, you with the intention of building a "subject to" clause which should consider including a "subject to" clause which disposal permit for the bare lot a condition of the sale. Discuss this with your realtor and/or lawyer.

keep in mind that just because neighbouring lots may have existing sewage systems, that fact does NOT guarantee that a new permit will be granted for YOUR lot. Standards are much stricter now than they used to be. The only way to guarantee that you can get a proper permit for your planned sewage system is to go through your local Health Unit or Department.

How do I Apply for a Permit?

Technically, only the owner of a property can apply for a permit for that property. That permit — if given — is only valid for one year, and is not transferrable.

However, if you are far enough along in the purchase process to have an "agreement for sale" and enclose a copy of that agreement with your application and payment of a \$250 processing fee, then the local Health Unit will accept and act upon your application.

It is the responsibility of the applicant to provide all the necessary information, and undertake all the work needed to support the application (i.e. site plan, "perc" tests, etc.). It is NOT the responsibility of the local Environmental Health Officer to design your system for you.

Once you have filled out the application — providing all the information requested on the form — an Environmental Health Officer will inspect your lot to confirm that the information you have provided is accurate, and the property meets the requirements of the Sewage Disposal Regulation and is suitable for a sewage disposal system. If in the opinion of the Environmental Health Officer the property meets the proper specifications (i.e. appropriate soil depth, drainage, slope, water table, etc.) you will then be issued a permit to construct your sewage disposal system.

Possible Delays

In some cases, the EHO may postpone the required inspection/testing procedures until the wintertime so that the drainage/absorption characteristics of the lot may be determined during the wetter winter months.

brown

Health files

Ministry of Health and Ministry Responsible for Seniors

> Number 21a September 1994

Maintenance and Operation of Sewage Disposal Systems

When Are Septic Tanks Used?

Any domestic or commercial building that is not serviced by a municipal or city sewage system needs a method for disposal of human wastes. Although some rustic-minded homesteaders are content to use an outhouse, indoor plumbing requires a sewage disposal system, which usually includes a septic tank, disposal system, wand an approved method of ground disposal.

How Does A Septic Tank Work?

Typically, a septic tank is a watertight container or box that acts as a settling chamber where bacteria assist in the breakdown of human wastes. The solids assist in the bottom of the tank and become sludge, while oils and other light material float to the surface. While oils and other light material float to the surface while oils and other light material float to the surface. The effluent liquid between the two layers flows from the tank into the septic field, where biodegradable action continues until the effluent is rendered action continues until the effluent is rendered action continues until the sludge and surface oils harmless and inert. The sludge and surface oils remaining in the septic tank should be removed by a septic system pump-out contractor, typically every system can result in the premature failure of your system can result in the premature failure of your repairs or replacement of your field.

Can A Septic Tank Be Installed Anywhere?

Everyone who intends to install an on site sewage disposal system must apply for a permit and pay an administrative fee of \$250.00 which includes the cost of one final inspection. (And if a re-inspection is necessary, the fee is an extra \$100.)

Remember that all sewage systems must conform to certain specifications and must be approved by an Environmental Health Officer.

See Health File #21b regarding the issue of sewage disposal system permits for undeveloped lots, and the rights of appeal against decisions to issue or not issue such permits.

Maintaining Your Sewage Disposal System

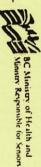
It is important to keep an accurate sketch that shows the location of your septic tank, distribution box and disposal field; make sure that the sketch shows the system relative to a fixed point, such as your house or an outbuilding.

Provide appropriate indicators for access hatches which should be protected from runoff water. Burying or raising accesses above the grade is usually recommended.

Preventing Possible Problems

Sewage systems are vulnerable to a number of largely preventable problems (and sewage systems are not pleasant to fix). Keep the following in mind:

- Don't permit any vehicles (including snowmobiles) to drive or park on any part of the disposal system;
- Don't flush paints, solvents or any kind of toxic chemicals down the toilet;
- Avoid planting large trees or shrubs nearby because the roots may affect the disposal field;





Ministry of Health and Ministry Responsible for Seniors

APPLICATION FOR PERMIT TO CONSTRUCT OR REPAIR A SEWAGE DISPOSAL SYSTEM

	FOLIO NUMBÉR	DATE OF APPLICATION (YYYYY / MM / DD)	0	New Construction	Repair [Alteration
OWNER	NAME OF OWNER	1000			TELEPHONE NUMBER	9
Correspondence to be sent to	Number and Street	et .	0	City	Postal Code	
Owner	NAME OFAPPLICANT	7			TELEPHONE NUMBER	WBER
INFORMATION	114 MI	55			10,00-0401	10/10
Correspondence	Number and Street	SET .	C	City	Postal Code	,
□ applicant	ADDRESS 2 476 3 - 2	(Rut.	LANGLE		2.29	375
Lot	ESCRIPTION OF WH	IS TO BE CONSTR		1		
INFORMATION	17d ON 107	aMN WILL	1335	/		
	7/05 - 23	57.				
	STREET ADDRESS / GENERAL LOCATION	TION				
PREMISE	SEWAGE DISPOSAL SYSTEM WILL SERVE		NUMBER OF BEDROOMS:	FINISHED BASEMENT	DO YOU INTEND TO ADD A BASEMENT SUITE OR MORE BEDROOMS IN THE FUTURE?	ASEMENT SUITE
	SINGLE FAMILY DWELLING	U DUPLEX	\	☐ Yes ☐ No		
	□ OTHER (specify):		TOTAL LIVING AREA:			
	ESTIMATED DAILY SEWAGE FLOW:	300 IMP CALL TURY	1600 \$	777	1.11 ACR	A. S.
SYSTEM	TYPE OF SEWAGE DISPOSAL SYSTEM:		SEPT	SEPTIC TANK MANUFACTURER	ER	LIQUID VOLUME OF TANK
INFORMATION	CONVENTIONAL			MATERIAI OF SEPTIC TANK		1
	DEEP TRENCH	OTHER (specify):		· NORTH		000
	TOTAL LENGTH OF DRAINAGE PIPE	DRAINAG			INSIDE DIA	INSIDE DIAMETER OF PIPE
	IE BACKAGE TREATMENT DI ANTI IS DRODOSED GIVE	o o onen (ape	TMENT		FIELD DOSE VOLUME PUMPED PER CYCLE:	JMPED PER CYCLE:
	MAKE		CAPACITY	YES		1
	MODEL			NO	1006	
ALTERNATE INFORMATION	PRESSURE DISTRIBUTION PROPOSED YES NO	D LAGOON SIZE	DEP	DEPTH OF CLAY SOIL	GARBURATOR PES P	NO
SITE	SOIL DESCRIPTION DEPTH OF SOIL: Over 1.2 m (4 ft.)	(4 ft.) Tunder 1.2 m (4 ft.) If under 1.2m (4 ft.), due to	under 1.2m (4 ft.)	rock	or clay at 2 10 ft. from surface.	trom surface.
	ER TABLE:	over 1.2 m (4 ft.)	under 1.2 m (4 ft.) If u	If under 1.2m (4 ft.) th	(4 ft.) the depth is	
	SLOWEST RATE FROM test hole #1	le #1_ 35 min./2.5 cm (1 inch)		test hole #2/ O	min./ 2.5 cm (1 inch)	J)
	WATER INFORMATION					
•	SOURCES OF DOMESTIC WATER:	MUNICIONE				
	DISTANCES OF PROPOSED DISPOSAL FIELD FROM	FIELD FROM:	source of	source of domestic water	bro	breakout point
	own well	neighbouring wells	8	stream or lake	0 110	water lines
RESTRICTIVE COVENANTS	ARE THERE ANY RESTRICTIVE COVER If Yes, explain	ARE THERE ANY RESTRICTIVE COVENANTS / EASEMENTS WHICH WILL AFFECT THE DESIGN OR LOCATION OF THE SEWAGE DISPOSAL SYSTEM? 🗍 Yes If Yes, explain	OT THE DESIGN OR LO	CATION OF THE SEWAC	3E DISPOSAL SYSTEM? ☐ Ye	es Owno
APPLICANT	The information on this application Owner or Agent	The information on this application is accurate and true to the best of myknowledge: Owner or Agent	yknowledge:	PAID: 10	OFFICE USE ONLY	
	-Signature //	Date (yy	Date (yyyy/mm/dd)	DATE: 0/	YYYY/MM/OD	

PERMIT TO CONSTRUCT, INSTALL, ALTER OR REPAIR

FOLIO / LOT NUMBER

disposal system on this property. This permit may be cancelled if variations are made to these plans and specifications. Pursuant to this application and the Sewage Disposal Regulations, permission is hereby granted to construct, install, alter, or repair the sewage

Conditions of Permit:

PERMIT ISSUED FOR RIPAIR

EFFLUENT FILTER TO BE INSTRUCT

SUBMITED つえかり 2000

PAC. MADORY 0 00 13000 2 至 WEATHER

DATE PERMIT VALID

1018

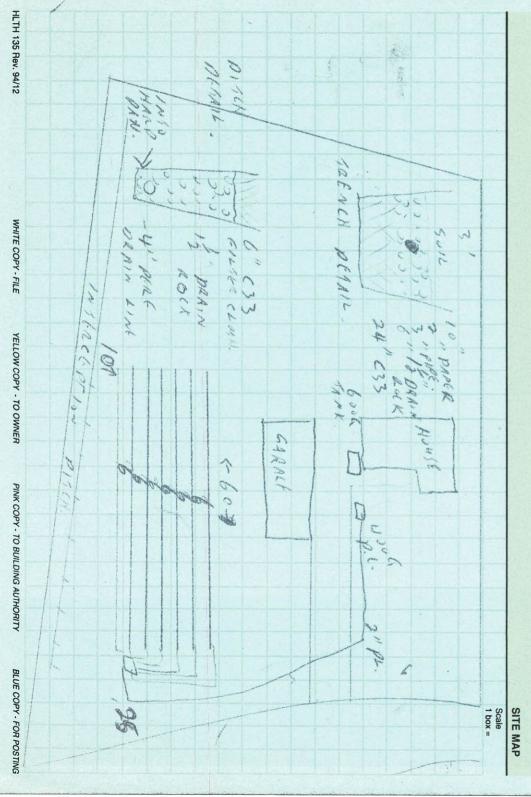
SIGNATURE OF PUBLIC HEALTH INSPECTOR / EHO

NOTICE E

date the permit is issued and must remain posted for 30 consecutive days from the date the permit is issued. This notice must be posted in a conspicuous place on the parcel for which the permit is issued not more than 3 days after the

appeal under section 5 (3) (a) of the Health Act. Persons who consider themselves aggrieved by a decision made under the Sewage Disposal Regulation are eligible to file an

A Notice of Appeal must be delivered by hand, facsimile or registered mail to the Chair of the Environmental Appeal Board, Parliament Buildings, Victoria, B.C. V8V 1X4 within 30 days of the issuance of the permit. Please contact your local Health Unit for information on appeal procedures



COLUMBIA

Ministry of Health and Ministry Responsible for Seniors

AUTHORIZATION TO OPERATE A SEWAGE DISPOSAL SYSTEM

SIGNATURE PUBLIC HEALTH INSPECTOR / EHO USE ONLY APPROVED REJECTED NOT APPLICABLE Septic tank AUTHORIZED JAN 7 03 OPERATE OPERATE OPERATE OPERATE OPERATE OPERATE OPERATE OPERATE	The Ministry of Health does not guarantee the useable life of the sewage disposal system. The life of the system is affected by the use and maintenance it receives. Pump out the septic tank every 2-3 years. For servicing of package treatment plants, consult your local service agent. For service guarantees, consult your local sewage disposal contractor. If the system needs repair or modification, a new permit is required. If the system is not authorized for backfilling and if corrections are required, a re-inspection fee of \$100 must be paid for each time the Public Health Inspection see that the faults have been corrected. Subject to the Southern Subjection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time the Public Health Inspection fee of \$100 must be paid for each time fee of \$100 must be paid for each time fee of \$100 must be paid fee of \$100 must be	3/	AS BUILT DIAGRAM : to be completed by the contractor or applicant	OF OWNER 18NDC
APPROVED REJECTED NOT APPLICABLE Curtain drain interceptor drains pump drain rock set back distances	osal system. The life of the system is affected by the use and maintenance it treatment plants, consult your local service agent. For service guarantees, rodification, a new permit is required. re-inspection fee of \$100 must be paid for each time the Public Health Inspector rows:	-\$\$\$\$\$\$\$\$\$		STREET ADDRESS / GENERAL LOCATION STREET ADDRESS / GENERAL LOCATION INSTALLED AS PER REGULATIONS SIGNATURE OF OWNER! APPLICANT O Yes O No

HLTH 136 Rev. 94/09

WHITE COPY - FILE

YELLOW COPY - TO OWNER

PINK COPY - TO BUILDING AUTHORITY