



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water

**WASTEWATER DISCHARGE AUTHORIZATION PROGRAM
HANDOUT AND FREQUENTLY ASKED QUESTIONS**

Residential Domestic Wastewater Systems

June 8, 2017

<http://dec.alaska.gov/water>

Septic Tanks

Does ADEC have a list of approved prefabricated septic tanks?	No. Tanks selected must comply with ADEC regulations and the Uniform Plumbing Code.
What are some of the requirements for septic tanks?	A partial list includes: (see regulations/standards) - Two chambers - At least 1,000 gallons plus 250 gal/bedroom over 3 - Watertight covers bolted, locked or covered w/fill - Manufacturer certification for required bury depth
What are the full regulations and standards governing the construction of septic tanks?	18 AAC 72.035 and Appendix H of the 2012 Uniform Plumbing Code.
What are the applicable quality assurance/control standards for prefabricated septic tanks?	- UL 70 coating for steel septic tanks - IAPMO/ANSI Z1000 (and referenced ASTM standards) for concrete septic tanks - IAPMO or NSF 40 certification for plastic or composite tanks
How does ADEC approve cast-in-place or non-prefabricated septic tanks?	ADEC will review and approve engineering plans for individual tanks only under 18 AAC 72.200.

Approved Pipe Materials

Pipe Type	ASTM Designation	Approved For Building Sewer	Approved For Disposal Sewer	Approved For Drainfield Pipe	Approved For Cleanout/Standpipe
Schedule 40 ABS	ASTM F628	Yes	Yes	No	Yes
Schedule 40 PVC	ASTM D1785	No	Yes	Yes	Yes
Schedule 40 PVC	ASTM D2665	No	Yes	Yes	Yes
SDR 35 PVC	ASTM D3034	No	Yes	Yes	Yes



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Design and Construction Frequently Asked Questions

<p>Which systems require engineered plans?</p>	<ul style="list-style-type: none"> • Reduced separation distances • Surface discharges & discharges to waters of the U.S. • Soils with a percolation rate slower than 60 minutes per inch • Mound-type absorption beds. • Sewage lift stations (except pre-approved designs such as Anchorage Tank, Greer Tank, etc.) • Package treatment plants • Other non-conventional or alternative onsite wastewater system proposals • Holding tanks • Systems with any non-domestic wastewater
<p>Can a certified installer install a conventional system in ML (silt) soils?</p>	<ul style="list-style-type: none"> • Only with an engineer's soil log and percolation test. Based on the percolation rate, the absorption field is then sized using the application rate specified in Division 20 Article 5.4 of the OWSIM. A copy of the engineer's soil log and percolation test must be included with the Documentation of Construction. • ADEC offices may issue region-specific guidance or exceptions based on soil survey data. Contact the ADEC office where the installation will take place.

Important Definitions

Term	Regulatory Citation	Definition
<p>“small commercial facility”</p>	<p>18 AAC 72.990(71)</p>	<p>a single commercial building with an expected peak design flow of 500 gpd or less of domestic wastewater.</p>
<p>“private residence”</p>	<p>18 AAC 72.990(89)</p>	<p>a single residential lot that is developed as a primary habitation for not more than two families and has a total maximum design flow on the lot of not more than 1,500 gpd of domestic wastewater; a private residence</p> <p>(A) includes one duplex, two single-family residential structures, or a single-family home plus an apartment;</p> <p>(B) may include additional support buildings, such as a workshop, home office, greenhouse, or garage, used by the residents; and</p> <p>(C) does not include a commercial development;</p>



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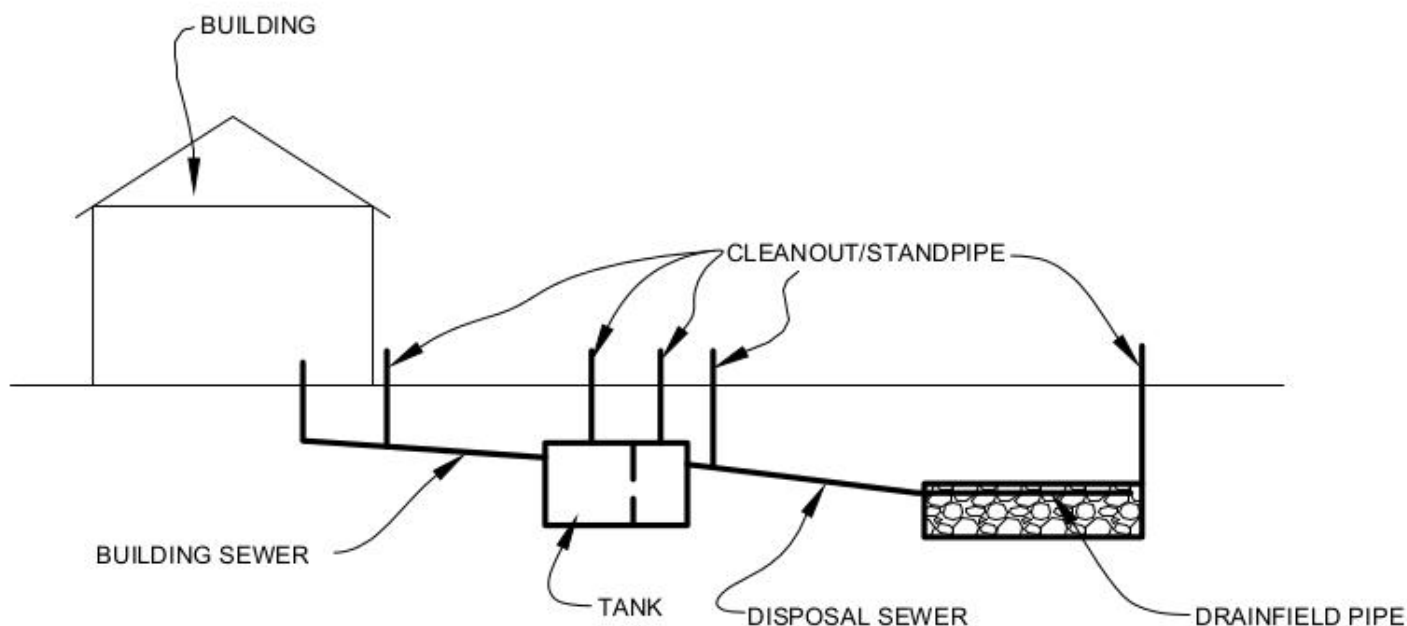
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Sewer Materials Locations



NOTE: THIS IS NOT A COMPLETE DRAWING. SEWER COMPONENTS SHOWN FOR CLARITY ONLY. SEE THE INSTALLERS MANUAL FOR COMPLETE DRAWINGS.

ADEC Office Contacts

Anchorage & Southwest Alaska	Fairbanks & Interior Alaska	Kenai Peninsula	Southeast Alaska	Matanuska-Susitna Valley & Valdez
555 Cordova St Anchorage, AK 99501 (907) 269-7519 Certified Installer Line (907) 269-6285	610 University Avenue Fairbanks, AK 99709 (907) 451-2109 Certified Installer Line (907) 451-2184	43335 Kalifornsky Beach Road, Suite 11 Soldotna, AK 99669 (907) 262-3402 Certified Installer Line (907) 262-3424	410 Willoughby Avenue, Ste 303 Juneau, AK 99801 (907) 465-5167 Certified Installer Line (907) 465-5306	1700 E. Bogard Rd, Bldg B, Ste 103 Wasilla, AK 99654 (907) 376-1851 Fax: (907) 376-2382 Certified Installer Line (907) 376-5139

If you have questions or concerns regarding these guidelines, please contact Gene McCabe, Program Manager, Wastewater Engineering Support and Plan Review, at 907-269-7692 or gene.mccabe@alaska.gov.