
Underground Storage Tank Leak Prevention Program

Tanks, Brownfields, and
Federal Facilities Bureau



UST Leak Prevention Program Goal

Protect human health and the environment by preventing releases of petroleum and hazardous substances from UST systems.

The release of regulated products and/or hazardous substances into the environment threatens groundwater resources and can cause explosive vapors to seep into confined spaces and occupied dwellings.



Where we have been – UST system regulation history

The Why

- <https://www.youtube.com/watch?v=leYoLtsQ2WQ>
- EPA Established UST regulations – December 22, 1988
- UST upgrade requirements between 1988 and 1998
- EPA added Energy Act requirements in 2005
- EPA revised UST regulations in 2015.



UST Section Team

UST Program Section Supervisor: [Seth Hendrix](#)



Compliance Assistance: [Kitrina \(Kit\) Persson](#)



Compliance Inspection Review: [Brett Smith](#) &
[Joseph \(Joey\) Kane](#)



Construction Permits: [Dylan Lang](#)



Data Control Specialist: [Kathleen \(Kat\) Caeton](#)



Database Analyst: [Kent Knudsen](#)



How to contact US - (UST)

UST CONTACTS

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Licensee Training February 13, 2024 at The Delta Hotel
[Registration](#) | [Event Location](#) | [Agenda](#)

What we do

Regulate 1,200 UST facilities (~3,740 tanks).

Manage the MT DEQ UST inspection program

❖ Issue 300-350 UST operating permits a year.

Manage the MT DEQ UST construction Permitting program

❖ Issue 300-350 UST construction Permits a year.

Montana UST compliance assistance, department UST oversight inspections, licensing, licensee training, UST owner/operator training, & public service



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

RECEIVED

OCT 28 2010

Office of Energy Quality
Policy & Undergraduate
Tank Management Bureau

OFFICE OF
LAND AND
WATER
MANAGEMENT

Ed Thunke, Chief
Waste and Underground Tank Management Bureau
Montana Department of Environmental Quality
1520 East Sixth Avenue
Helena, MT 59601

Dear Mr. Thunke:

Congratulations to you and your entire staff on achieving final approval for Montana's updated state underground storage tank program. I appreciate all the time and energy you and your staff devoted to reaching final state program approval. Your efforts to improve the overall management of underground storage tanks through state program approval will result in greater environmental protections that keep Montana's soil and groundwater safe from underground storage tank petroleum releases. In addition to this being a huge accomplishment and source of pride for Montana, it is an important milestone for EPA when a state attains this status.

Montana and the five states that have already reached this noteworthy accomplishment are leading the way as other states pursue updating their state program approval status. I am extremely pleased to see the ongoing progress all states are making in this endeavor. Thank you for making this significant achievement a reality for Montana.

Sincerely,

Marilyn Henkison, Director
Office of Underground Storage Tanks

Testing

Montana RP1200 forms for Testing

Montana C-1 Tank

Montana C-2 PipeSecCont.

Montana C-3 Spill Bucket

Montana C-4 Sump Hydro

Montana C-5 BFVV and Flapper Valve

Montana C-6 Overfill Alarm

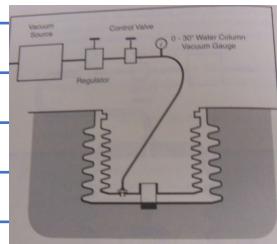
Montana C-7 ATG

Montana C-8 Liquid Sensor

Montana C-9 ALLD

Montana C-10 Shear Valve

Montana C-11 Emergency Stop



Initial testing must be conducted no later than October 13, 2021.

For UST systems brought into use after October 13, 2018, these requirements apply at installation)



UST Licensing

Newly propose UST regulations includes 3 additional UST licensees

- ❖ Compliance tester
- ❖ Junior installer
- ❖ Corrosion protection installer

Many options for licensing: DEQ testing site, offsite testing option like Sylvan, working on online option

- 87 licensed individuals
 - 11 licensed removers
 - 23 licensed compliance inspectors
 - 52 licensed installer/removers
 - 1 cathodic protection installer

Annual licensee training – February 13, 2024



Licensee Training February 13, 2024 at The Delta Hotel
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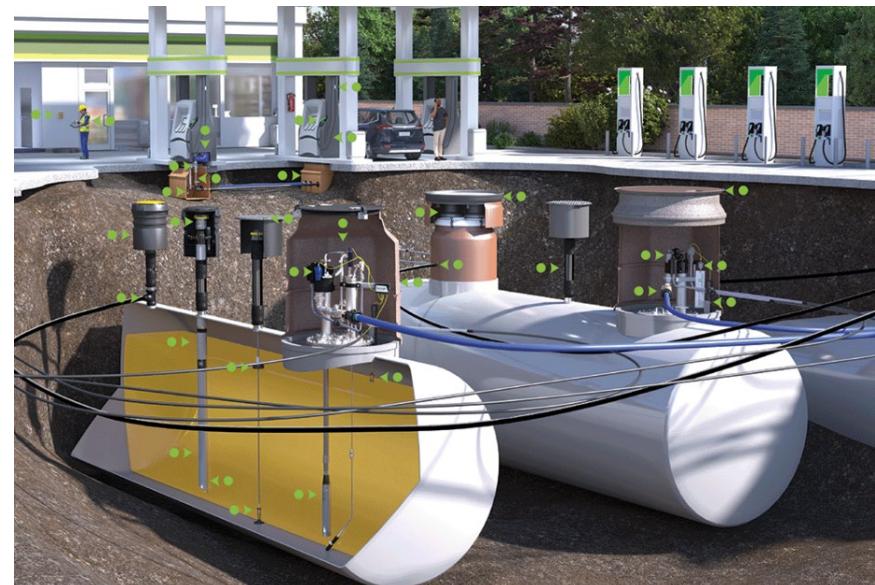
MT DEQ UST program vs EPA: a few differences – renewed SPA on October 22, 2019.

- MT DEQ UST program started regulating Emergency Power Generator Tanks (including tank and piping leak detection) on 11/23/1989 – EPA original deferral in 1988.
- MT DEQ UST program regulates all underground product piping runs (vs EPA 10 percent rule)- including ASTs with underground piping
- MT DEQ UST program (after December 31, 2010) incorporated Shut-down requirements for tank and piping leak detection methods to ensure the UST operator is alerted immediately and is forced to address all possible leak alarms.



Differences continued

- MT DEQ – Issues UST installation, modification, construction, and closure permits to licensed individuals
- UST program utilizes 3rd party licensed UST inspectors
- MT DEQ does not have an SPCC program presently, but covers eligible ASTs for FR
- Montana has the State Petroleum Tank Cleanup Fund (with Board members) which is the most common method of FR for UST facility owners.



Differences Continued

17.56.205 ANTI-SIPHON REQUIREMENT

- (1) The owner or operator of an UST system that is located at an elevation that produces a gravity head on an underground piping system shall ensure that the product pipe is equipped with one of the following devices:
 - (a) a department-approved anti-siphon valve;
 - (b) a department-approved normally closed solenoid valve; or
 - (c) any other department-approved device designed to prevent siphoning.
- Effective 2/11/11.

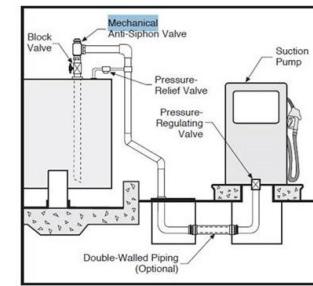
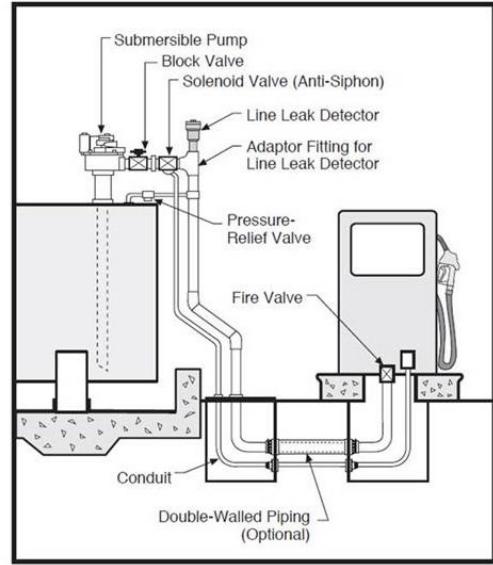


FIGURE 7-2. Suction System. Typical piping and valve arrangement for product piping exiting the tank top. Aboveground portions of the piping must be securely supported. Supports are not shown in the diagram for clarity.

Differences Continued

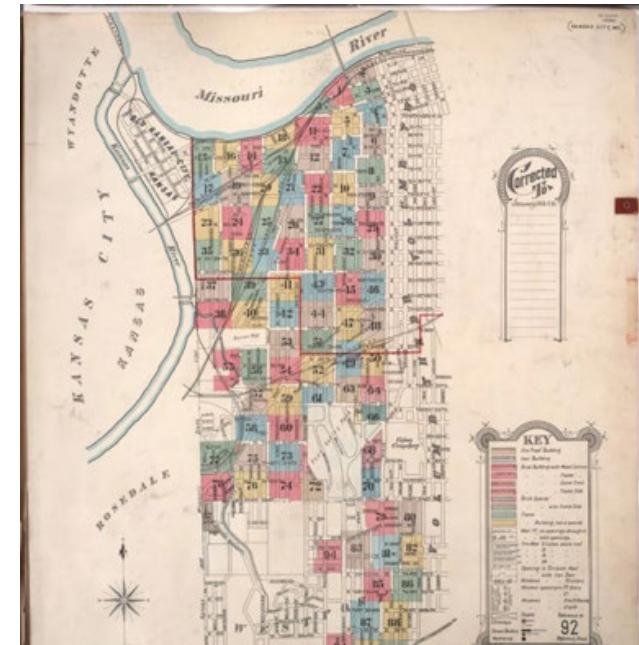
OUT OF TANK leak detection methods NOT allowed

- GROUNDWATER MONITORING & VAPOR MONITORING are no longer valid tank or piping leak detection methods as of **October 13, 2023**.



How we (UST program) connect with Environmental Consultants

- Records Requests
- Found/Discovered UST systems
- Phase 1 Environmental Assessments – historical UST/LUST information or found tanks
- Leaking tank or piping systems
- Tank Closures – removing and closing tanks and conducting site assessment during closure.
- Tank and/or piping construction projects where we require sampling of tank basin or piping trench.





SANBORN MAP REPORTS

- Fires, a hazard of the industrial revolution, often caused uninsured property owners to suffer great financial loss. To protect against such calamity, fire insurance companies sprang up all over the U.S. Policy writers, however, could not always inspect properties in person. In 1866, D. A. Sanborn, an enterprising surveyor in Massachusetts, began creating specialized maps to help under-writers evaluate the risks.

SANBORN MAP® Report

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The SANBORN MAP Report is generated from the complete holdings of the SANBORN MAP Library, which dates back to 1866 and includes over 1.3 million SANBORN fire insurance maps.



Conducting a Phase 1 Environmental Assessment

- A Phase I Environmental Site Assessment, commonly referred to as an ESA, or Phase I ESA, is completed to research the current and historical uses of a property as part of a commercial real estate transaction. The intent of the report is to assess if current or historical property uses have impacted the soil or groundwater beneath the property and could pose a threat to the environment and/or human health.

Target Property Address:
117 WEST MISSION STREET
SANTA BARBARA, CA 93101

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.)	DIRECTION
A1	THRIFTY OIL C	33 W MISSION ST	EDR Hist Auto	Higher	1 ft.	
A2	MILLS SHELL SERVIC	2001 DE LA VINA ST	EDR Hist Auto	Higher	1 ft.	
A3	THRIFTY OIL STN 204	33 W MISSION ST	HIST UST	Higher	1 ft.	
A4	MIRATTI TRUST PROPER	2001 DE LA VINA	LUST	Higher	1 ft.	
A5	GULF SERVICE STATIO	1940 CHAPALA ST	EDR Hist Auto	Higher	1 ft.	
A6	PRIVATE RESIDENCE	PRIVATE RESIDENCE	LUST	Lower	39, 0.007, WSW	
A7	AT&T MOBILITY - COTT	PUEBLO & BATH	CUPA Listings	Higher	146, 0.028, North	
A8	SCOTT JAS 201	128 W MISSION	EDR Hist Auto	Lower	175, 0.033, West	
A9	LAURELES MISSION LAU	128 W MISSION ST	EDR Hist Cleaner	Lower	175, 0.033, West	
A10	HELENS LAUNDRY DRY	1934 DE LA VINA ST	EDR Hist Cleaner	Lower	178, 0.034, SW	
A11	FLOREA PAU	1932 DE LA VINA ST	EDR Hist Cleaner	Lower	178, 0.034, SW	
A12	FORMER SERVICE STATI	2000 DE LA VINA	LUST	Lower	192, 0.036, West	

MAPPED SITES SUMMARY



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com



STATE OF MONTANA

P.O. Box 200902 • Helena, MT 59620-0902 • (406) 444-9710
• Website: www.deq.mt.gov/pet/default.mcp

Found Tanks

- Notification of UST form required to be submitted with the owners or owner's representative signature
- Permit application for UST closure with a listed licensed UST remover to perform the work

PTRCB Found Tank Guidance Document



Underground Petroleum Storage Tanks discovered After June 30, 2005

The Petroleum Tank Release Compensation Board (PTRCB) release eligibility law pertaining to underground storage tanks, discovered by an owner, was significantly changed on July 1, 2005.

Owners/Operators who discover an underground storage tank must apply to the Department of Environmental Quality (DEQ) for a closure permit within 30 days of the date upon which the owner first had knowledge of the tank. They must also close the tank in accordance with the requirements of the permit, before the permit expires, to be eligible for assistance from the PTRCB.

Steps Required for Discovered Tanks:

1. Submit a [Closure Permit Application](#) to DEQ/UST section within 30 days of discovery.
2. Close the tank in accordance with closure requirements and all permit conditions.
3. Report suspected releases to DEQ on their [Report Pollution](#) web page.
4. If you want to apply for financial assistance from the PTRCB, complete a Release Eligibility Application ([Form 1-R](#)).

Review the Montana Code Annotated (MCA) §[75-11-308\(1\)\(b\)\(iii\)](#) pertaining to the discovery of an underground storage tank.

If owners or operators are interested in the eligibility criteria for releases discovered before July 1