AST Closure Plan



Environmental Enforcement/Tanks 601 57th Street SE Charleston, WV 25304 Telephone: 304-926-0470; Fax: 304-926-0452

West Virginia Department of Environmental Protection

Owners who are permanently closing aboveground storage tanks may use this form to notify of the intent to close their aboveground storage tanks and utilize this template for their closure plan. Additional guidance for closure can be found in the Corrective Action Guidance Document (CAGD) which can be found at https://dep.wv.gov/WWE/ee/tanks/lustmain/Pages/default.aspx.

PLEASE SUBMIT TO dep.ast@wv.gov USING FILE NAME FORMAT OF TANK Owner.County.YYYY.MM.DD

 This closure plan is being subn Submit one plan per county. Yo the county and requires details ; 	nitted for AST's located in the ou must attach a WVDEP AST Clo for the closure that must be comp	following county: <u>psure Spreadsheet to this plan.</u> The plan requires you to list all tanks being closed in pleted for the plan to be acceptable.
2. I am requesting a waiver of th	e thirty (30) day notification p	period: 🗌 Yes 🗌 No
3. Closure plan submittal date:		
4. Date range you anticipated ta	nk closure(s):	
5. Owner Information		
Name:		Company Name:
Address:		
County:		Phone:
State:	Zip:	E-Mail:
6. Operator Information	same as owner	
Name:		Company Name:
Address:		
County:		Phone:
State:	Zip:	E-Mail:

7. Facility Information	Various locations throughout the county (check if your tank(s) are not associated with a distinct facility)			
Name:				
Address:				
County:	Zip:	Phone:		

8. Certified person performing closure information				
Name:	*PE:	API:	STI:	
Phone:	Certification #			
E-mail:	Issued on:		Expires on:	

Notification of Closure - The certified closure person or company representative must contact the WVDEP Tank Unit (AST Inspector and CAU Program Manager) for the county in which the closure is taking place a minimum of 72-hours prior to commencing closure activities.

*PE "Professional engineer" means a person who has been duly registered or licensed as a professional engineer by the West Virginia Board of Registration for Professional Engineers, as set forth in W. Va. Code § 30-13-1, et seq.

I. Closure Assessment

DEP Approved Sample Locations for all AST Closures (refer to AST/LAST Closure Guidance Memo for more information)

A. ASTs with diameter less than or equal to 25 feet

Soil samples shall be collected at twelve (12) inches below grade in native soil at the following locations:

- One (1) sample shall be collected from native soil below the center of the tank;
- One (1) sample shall be collected from the lowest elevation inside the secondary containment; and
- One (1) sample shall be taken from below the outfall/valve of the secondary containment drain; and
- When necessary, one (1) sample from all areas (inside or outside of containment) where obvious contamination is present from a release (e.g. stained soils, dead vegetation).

B. ASTs with diameter greater than 25 feet

Soil samples shall be collected at twelve (12) inches below grade in native soil at the following locations:

- Four (4) samples (one in each quadrant) shall be collected from native soil below the tank;
- One (1) sample shall be collected from the lowest elevation inside the secondary containment;
- One (1) sample shall be taken from below the outfall/valve of the secondary containment drain; and
- When necessary, one (1) sample from all areas (inside or outside containment) where obvious contamination is present from a release (e.g. stained soils, dead vegetation).
- 1. Will you collect samples using the appropriate DEP approved sample location criteria described above?
 - Yes No

If no, complete section I of Attachment A and submit with your plan.

2. Describe below any field screening that will be utilized during sampling.

Are you using t	ne DEP approved analy	rsis method provide	d on one of the A	Attachments?	
Are you using t Yes If <u>yes</u> , select If <u>no</u> , comple	ne DEP approved analy No which DEP approved of te section II of Attach	rsis method provide attachment you will nent A and submit	d on one of the A be using. with your plan:	Attachments?	
Are you using t Yes If <u>yes</u> , select If <u>no</u> , comple	ne DEP approved analy No which DEP approved of te section II of Attachi ent B (DEP approved for	rsis method provide attachment you will nent A and submit or Petroleum relate	d on one of the <i>i</i> be using. with your plan: d compounds)	Attachments?	

II. Attachments

Attach the following to this closure plan:

- 1. Tank closure spreadsheet (Mandatory, do not submit the plan without a completed spreadsheet).
- 2. Field Data collection sheets to be used, if any
- Photos of the ASTs' secondary containment, piping, pumps, containment drains, etc., as necessary to clarify sampling locations, justify no sampling, or provide the Agency with information about the site.
- 4. Map showing sample locations
- 5. Any additional information you think the Agency needs to know to approve the plan.

ATTACHMENT A OWNER PROPOSED SAMLPING LOCATIONS and PARAMETERS

I. Closure Sample Locations

Describe below the proposed sampling locations for each tank and justification why these sampling locations are more appropriate than the DEP approved locations. Provide as an attachment photos of the ASTs' secondary containment, piping, pumps, containment drains, etc., as necessary to clarify sampling locations, justify no sampling, or provide the Agency with information about the site.

II. Closure Sample Parameters

Describe below the analytical parameters, the lab method, sample containers, and preservatives that will be utilized for sample analysis.

Analytical Parameter	Lab Method	Sample Container	Preservatives

NOTES: The following must be adhered to.

Soil Samples

Soil sampling protocol for volatile organics (such as BTEX, MTBE, and TBA) must follow the requirements of SW846 Method 5035 utilizing vials with preservatives for collection of VOCs. The lab can provide sampler and sample container.

NOTE: WVDEP Certified Laboratory must be used to analyze samples regardless of using recommended or proposed sampling criteria. WVDEP certified laboratories can be found at the following link:

https://dep.wv.gov/WWE/Programs/lab/Pages/default.aspx

The most recently promulgated version of the analytical method shall be utilized by the laboratory.

ATTACHMENT B (Petroleum Related Sampling Parameters)

For the regulated community's convenience due to the prevalence of petroleum related ASTs in WV, the analytical parameters and methods required for various petroleum products are listed below. Be advised that these are typical analytical parameters; however, the WVDEP may require additional analytical parameters based upon specific site situations as is necessary to properly protect public health and the environment.

Gasoline (leaded, unleaded, aviation, etc.)	Lab Method	Sample Container	Preservatives
MTBE/TBA/BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes)	SW846 8260	3 - 40 ml vials	Sodium Bisulfate, methanol, cool to ≤6 C
Lead (only applicable for leaded fuels)	SW 846 6010	4oz wide mouth jar with Teflon lid	cool to ≤6 C
Diesel, Kerosene, Heating Oil	Lab Method	Sample Container	Preservatives
BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes)	SW846 8260	3 - 40 ml vials	Sodium Bisulfate, methanol, cool to ≤6 C
PAHs (Polynuclear Aromatic Hydrocarbons)	SW846 8270	4oz wide mouth jar with Teflon lid	cool to ≤6 C
Used OilsRCRA metals (arsenic, barium, cadmium, lead, mercury, selenium, and silver)	SW846 6010	4oz wide mouth jar with Teflon lid	cool to ≤6 C
Crude Oil, Brine, and Condensates	Lab Method	Sample Container	Preservatives
BTEX (Benzene, Toluene, Ethylbenzene, and Xylenes)	SW846 8260	3 - 40 ml vials	Sodium Bisulfate, methanol, cool to ≤6 C
PAHs (Polynuclear Aromatics Hydrocarbons)	SW846 8270	4oz wide mouth jar with Teflon lid	cool to ≤6 C
Chloride	SW846 9056	4oz wide mouth jar with Teflon lid	cool to ≤6 C

*Used Oils

For used oil, metals must be analyzed in addition to the other parameters listed above. Ethylene glycol or a chlorinated solvent scan may be required if the possibility that these compounds have been added to a used oil tank.

Soil Samples

Soil sampling protocol for volatile organics (such as BTEX, MTBE, and TBA) must follow the requirements of SW846 Method 5035 utilizing vials with preservatives for collection of VOCs. The lab can provide encore or terra core sampler and sample containers.

NOTE: WVDEP Certified Laboratory must be used to analyze samples regardless of using recommended or proposed sampling criteria. WVDEP certified laboratories can be found at the following link:

https://dep.wv.gov/WWE/Programs/lab/Pages/default.aspx

The most recently promulgated version of the analytical method shall be utilized by the laboratory.

ATTACHMENT C

(Common substances stored in ASTs)

For the regulated community's convenience due to the prevalence of common substances stored in ASTs in WV, the analytical parameters and methods required for various products are listed below. Be advised that these are typical analytical parameters; however, the WVDEP may require additional analytical parameters based upon specific site situations as is necessary to properly protect public health and the environment.

Sodium Hydroxide, Caustic Soda, Calcium Carbonate	Lab Method	Sample Container	Preservatives
рН	SW846 9045	4oz wide mouth jar with Teflon lid	cool to ≤6 C
Glycol(s) (Ethylene, Propylene, Diethylene, Diethylene)	Lab Method	Sample Container	Preservatives
Glycols	SW846 8321	4oz wide mouth jar with Teflon lid	cool to ≤6 C
Hydrochloric Acid	Lab Method	Sample Container	Preservatives
рН	SW846 9045	4oz wide mouth jar with Teflon lid	cool to ≤6 C

Soil Samples

Soil sampling protocol for volatile organics (such as BTEX, MTBE, and TBA) must follow the requirements of SW846 Method 5035 utilizing vials with preservatives for collection of VOCs. The lab can provide sampler and sample container.

<u>NOTE</u>: WVDEP Certified Laboratory must be used to analyze samples regardless of using recommended or proposed sampling criteria. WVDEP certified laboratories can be found at the following link: https://dep.wv.gov/WWE/Programs/lab/Pages/default.aspx

The most recently promulgated version of the analytical method shall be utilized by the laboratory.