

**ADEM
30 DAY STATISTICAL INVENTORY RECONCILIATION (SIR) LOG
FOR THE PERIOD FROM ___/___/___ TO ___/___/___**

Questions on how to complete this form should be directed to the Groundwater Branch, UST Compliance Unit at (334) 270-5655

Facility Name:	Owner:
Address:	Address:
City, County, Zip:	City, State, Zip:
Facility I.D. #:	Phone #:
SIR Vendor:	SIR Vendor Phone #:
SIR Vendor Contact:	SIR Version:

Instructions

1. When required by the **Reporting and Recordkeeping Requirements** section below, submit a completed copy of this form to: Groundwater Branch, PO Box 301463 Montgomery, AL 36130-1463, or fax to: (334) 270-5631, or email to: USTcompliance@adem.alabama.gov.
2. This form allows you to record up to 6 ADEM Unique Tank Numbers, assuming that the Facility ID Number remains the same.
3. The SIR method used must be approved by ADEM. Visit the NWGLDE website at www.nwglde.org to view a list of release/leak detection equipment/methods that ADEM approves for use in Alabama. Each SIR method listing includes the third-party certified leak rate* and threshold*.
4. If, for any reason, the test is neither "pass" nor "fail", the "inconclusive" column must be checked under the "30 Day SIR Vendor Results" below.
5. For "Leak Threshold", "Minimum Detectable Leak Rate", and "Estimated Leak Rate", values must be in gallons per hour (gph).
6. Keep a record copy of 30 Day SIR Vendor Results until the next 30 Day SIR Vendor Results are received.

30 Day SIR Vendor Results

Tank			This 30 Day Period							Last 30 Day Period		
ADEM Unique Tank #	Tank Contents	Tank Capacity (gallons)	No. Days of Inventory Data	Minimum Detectable Leak Rate (MDL) (1)	Leak Threshold (LT) (2)	Estimated Leak Rate (ELR) (3)	P a s s (4)	F a i l (5)	I n c o n (6)	P a s s (4)	F a i l (5)	I n c o n (6)

- (1) The Minimum Detectable Leak Rate (MDL) is the smallest leak rate the SIR vendor can determine which meets the required minimum probability of detection of 95% using 30 days of inventory data provided to the SIR vendor.
- (2) The Leak Threshold (LT) is one-half the Minimum Detectable Leak Rate (MDL).
- (3) The Estimated Leak Rate (ELR) is the amount the tank appears to be losing that is calculated by the SIR vendor using 30 days of inventory data provided to the SIR vendor.
- (4) A "pass" occurs when the ELR is less than the LT and the MDL is less than or equal to the third-party certified leak rate.
- (5) An "inconclusive" occurs when the MDL is greater than the third-party certified leak rate.
- (6) A "fail" occurs when the ELR is greater than or equal to the LT and the MDL is less than or equal to the third-party certified leak rate.

Reporting and Recordkeeping Requirements

1. If any 30 Day SIR Vendor Results indicate a "fail" or "inconclusive" for any tank system, you are required to:
 - (a) Perform an investigation of all tank systems that SIR Vendor indicates a "fail" or "inconclusive" within 7 days after receipt of the 30 Day SIR Vendor Results.
2. If above investigation indicates that a suspected release caused the tank system(s) "fail" or "inconclusive", you are also required to:
 - (a) Report a suspected release to ADEM at 334/270-5655 within 24 hours after completion of investigation;
 - (b) Perform a tightness test on tank system(s) with a suspected release within 7 days after receipt of 30 Day SIR Vendor Results;
 - (c) Submit system tightness test results, results of investigation and completed ADEM 30 Day SIR Log to ADEM within 10 days after receipt of 30 Day SIR Vendor Results.
3. If above investigation indicates that factors other than a suspected release caused the tank system(s) "fail" or "inconclusive", you are only required to:
 - (a) Submit results of investigation and completed ADEM 30 Day SIR Log to ADEM within 10 days after receipt of 30 Day SIR Vendor Results.
4. If above investigation indicates that factors other than a suspected release caused the tank system(s) "fail" or "inconclusive", and a second consecutive 30 Day SIR Vendor Results indicates that the same tank system did not "pass" ("fail" or "inconclusive"), you are required to:
 - (a) Report a suspected release to ADEM at 334/270-5655 within 24 hours of receipt of the second 30 Day SIR Vendor Results;
 - (b) Perform a tightness test on the tank system(s), where 30 Day SIR Vendor Results indicated the same tank system(s) did not "pass", within 7 days after receipt of the second 30 Day SIR Vendor Results;
 - (c) Submit system tightness test results and completed ADEM 30 Day SIR Log to ADEM within 10 days after receipt of the second 30 Day SIR Vendor Results that indicated the same tank system(s) did not "pass".
5. A record copy of the Leak Threshold (LT), Minimum Detectable Leak Rate (MDL), and Estimated Leak Rate (ELR) must be kept on file for each tank until the next 30 day SIR Vendor Results are received. If the 30 day SIR Vendor Results are not on record, the tank system(s) is not in compliance with leak detection requirements for that 30 day period.

Certification

I certify under penalty of law that I am familiar with the information submitted on this form and that based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature of owner/operator: _____ Date: _____