



STATISTICAL INVENTORY RECONCILIATION (SIR)

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY

Division of Waste Management – Underground Storage Tank Program

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Statistical Inventory Reconciliation (SIR) is an approved 30-day monitoring method for underground storage tanks (USTs) and piping. The tank owner/operator provides to the SIR vendor daily inventory, delivery and dispensing data. The vendor's computer software statistically analyzes the data to determine whether the tank or piping system is leaking. Using SIR does not relieve tank owners/operators of the requirement to equip all pressurized lines with operational automatic line leak detectors and to test the leak detectors every 12 months.

Once you begin using SIR, your vendor will provide you with:

- A 30-day monitoring report indicating a “pass” or a “fail” for your UST system and a leak rate;
- Comments on the quality of the data submitted; and
- Suggestions for what may have caused the tank system to obtain a “fail” or “inconclusive” result and recommendations on how to investigate and correct potential problems.

Report any “fail” or “inconclusive” SIR result as a suspected release to the North Dakota Department of Environmental Quality within 24 hours of receiving the SIR report.

Exception: If you can determine within 24 hours that the “fail” or “inconclusive” SIR report does not indicate a release, you do not have to report the suspected release to the North Dakota Department of Environmental Quality. Document why it is not a suspected release and attach the documentation to the SIR report for future reference.
