

**ANNUAL STATISTICAL INVENTORY RECONCILIATION (SIR) SUMMARY REPORT**

Month \_\_\_\_\_, 200\_\_ through Month \_\_\_\_\_, 200\_\_  
**Annual summary reports are required for retail and non-retail facilities.**

Facility Name:	Tank Owner/Operator:	
Facility Address:	City:	Zip:

Tank I.D. # :	Tank Capacity:	Product:
Last Tank Tightness Test Date:	Pass/Fail (Circle one)	Last Leak Detector Check Date:
Last Piping Tightness Test Date:	Pass/Fail (Circle one)	Last Meter Calibration Check Date:
		Pass/Fail (Circle one)

**SIR Provider/Vendor:** \_\_\_\_\_ **SIR Method & Version Number:** \_\_\_\_\_

Performance standard:	<input type="checkbox"/> 0.2 gph	<input type="checkbox"/> 0.1 gph
Threshold of SIR method:	<input type="checkbox"/> Fixed	<input type="checkbox"/> Variable

Annual summary of test results from monthly SIR reports. **Complete for all 12 months.**

Month & Year	Leak Threshold (gph)	Minimum Detectable Leak Rate (gph)	Calculated Leak Rate (gph)	Pass (P), Fail (F), or Inconclusive (I)	Specify Follow-up Actions
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

For Inconclusive/Fail SIR Results:

- Appropriate corrective actions described in section 2646.1 of title 23 of the California Code of Regulations were taken. Yes No
- The local agency was notified by owner/operator within 24 hours of receiving Inconclusive/Fail SIR report(s). Yes No

I certify under penalty of perjury that all SIR results reported above are as calculated by the SIR provider/vendor.

\_\_\_\_\_  
 Signature of Tank Owner/Operator or Agent Date

**Submit a separate Annual Summary Report form for each tank.**  
**Submit this report to the local agency within 15 days following the end of the last twelve (12) month period covered by this summary report.**

## REPORTING OF STATISTICAL INVENTORY RECONCILIATION (SIR) TEST RESULTS

### 1. MDL $\leq$ 0.2 gph Certification Performance Standard

<b>Th</b>	<b>MDL</b> <b>0.2 gph</b>
Calculated Leak Rate < Th <b>PASS</b>	Calculated Leak Rate $\geq$ Th <b>FAIL</b>

### 2. MDL > 0.2 gph Certification Performance Standard

<b>Th</b>	<b>0.2 gph</b> <b>MDL</b>
Calculated Leak Rate < Th <b>INCONCLUSIVE</b>	Calculated Leak Rate $\geq$ Th <b>FAIL</b>

#### **NOTES:**

*"Th" is the threshold leak rate set to provide a probability of false alarm ( $P_{FA}$ ) of 5% or less.*

*"MDL" is the leak rate that has a probability of detection ( $P_D$ ) of 95% for a threshold that has a specified false alarm rate of 5%. In other words, MDL is the minimum leak rate the SIR method is capable of achieving for a  $P_D$  of 95%.*

*"Calculated Leak Rate" is the absolute value of the leak rate calculated by the SIR provider using the data provided by the owner/operator. Gains and losses must be reported using the same criteria.*

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