

CERS: Make the

DOTA



Work for You!





Make  **CERS** work for you!

 **CalEPA** did all the hard work, we are simply viewing the data in a meaningful way



Completeness Check Tool



Are There Secret Reports?

- ▶ Are there secret reports in CERS?
- ▶ Can UPAs use the same reports as State Agencies?



UST Facility/Tank Data Download Report

UST Program Reports

These reports compile submitted UST data from ~94% of California's regulated UST facilities (14,535 as reported by SWRCB, October 2011).

Compliance, Monitoring, and Enforcement Reports

[Inspection Summary Report by Regulator \(Report 6\)](#)

Counts of regulated UST facilities, active and closed UST systems, inspections, and SOC statistics.

[Inspection Summary Report by Regulator \(Annual\)](#)

Counts of regulated UST facilities, facilities inspected over a specified date range, Routine Inspections versus Other Inspections, and Return-to-Compliance statistics for Class III violations.

[Enforcement Summary Report by Regulator \(Annual\)](#)

Counts of Violations by Class, Enforcements by Enforcement Type, and Fines/Penalties.

[Red Tag Facility Details Report](#)

List Red Tags affixed during a specified date range.

[Semi-Annual Report](#)

Counts of regulated UST facilities, active and closed UST systems, inspections, and the Significant Operational Compliance statistics.

[Statewide Leak Prevention Report](#)

Counts of regulated UST facilities statewide, active UST systems, inspections performed over a specific time period, and combined operational compliance statistics.

Facility / Tank / Monitoring Summary Reports

[Facility Summary by Owner Type](#)

Provides counts of actively regulated UST facilities by Owner Type, grouped by Regulator.

[Facility Summary by Financial Responsibility Mechanism](#)

Provides counts of actively regulated UST facilities by Financial Responsibility Mechanism, grouped by Regulator.

[Facility/Tank Summary by Construction/Monitoring Type](#)

Provides counts of active UST systems falling within a user-defined set of criteria for tank construction and monitoring, grouped by Regulator.

[BOE Facility/Owner Search Tool](#)

Provides a tool to search for UST facilities by BOE Number, facility site address, and UST Property Owner and UST Tank Owner information.

UST Data Download

[UST Facility/Tank Data Download](#)

Generates an Excel file containing UST Facility / Tank data that has been "Accepted" by Regulators.

[UST CME Data Download](#)

Generates an Excel file containing UST Inspection, Violation, and Enforcement data.



CERS Regulator

Submittals Facilities Businesses Regulators Compliance Responders **Reports**

UST Program Report: UST Facility/Tank Data Download

Regulator: -- All Regulators --

CERS ID #

Tank Use: -- All Uses --

Tank Primary Containment: -- All Containment Types --

Piping Primary Containment: -- All Containment Types --

Convert Codes to Display Values

Date Submitted: [] to []

Tank Contents: -- All Contents --

Tank Capacity: [] to [] Gallons

Date Installed: [] to []

Accepted Submittal Only

Last Submittal Only (regardless submittal status)

Generate Excel Report

CERS Uncovered...

- ▶ Each data input field in CERS corresponds to a column in the UST Data Download Report

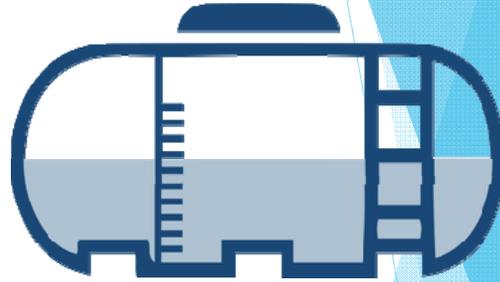
Tank Description

Tank ID # 24527	Date UST System Installed 10/8/1998	Tank Configuration A Stand-alone Tank
Tank Manufacturer XERXES	Date Existing UST Discovered -	Number of Compartments in the Unit 1
Tank Capacity in Gallons 15000	Date UST Permanently Closed -	Additional Description T1-SUPREME (PER VEEDER ROOT PROGRAMMING)

General UST Tank Permit Info									
410	412	413	414	416	415	410-a	410-b	417	418
Type of Action	Tank ID #	Tank Manufacturer	Tank Configuration	Tank Capacity in Gallons	Date UST System Installed	Date UST Permanently Closed	Date Existing UST Discovered	Number of Compartments in the Unit	Additional Description
Confirmed/Updated Information	24527	XERXES	A Stand-alone Tank	15000	10/08/1998			1	T1-SUPREME (PER VEEDER ROOT PROGRAMMING)

How Does the Tool Work?

- ▶ Known Requirements for UST Systems
 - ▶ Based on Install Date
- ▶ Data may be true or false based upon if a test is met/not met
- ▶ Conditional Formatting of cells in Excel to identify information where the test is met or not met

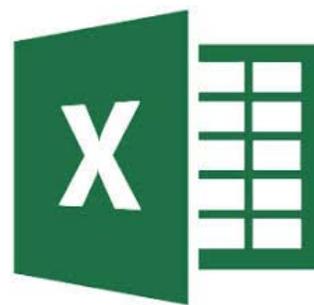


Development Process

Users enter data in CERS

UST Data Download Report

How can we use Excel to analyze the data?



CERS UST Data Download Tool

- ▶ Utilize Conditional Formatting to Analyze Submitted Data
- ▶ Visual Indicator of Data Inconsistencies
 1. Missing Data
 2. Incorrect Data
 3. Questionable Data



The Key: Conditional Formatting based on Formulas



- ▶ =IF (X=,1,0)
- ▶ =AND (X=,Y=)
- ▶ =OR (X=,Y=)
- ▶ =ISBLANK (X)
- ▶ =NOT(ISBLANK (X))



Formulas...

=IF (A2="UNKNOWN",1,0)

This means if the contents of the cell in row 2, column A is equal to "UNKOWN" put a "1" into the cell where the formula exists.

If that test is not true, put a "0" into the cell where the formula exists



Excel Formula Examples

- ▶ **AND(\$J3="A Stand-alone Tank", \$O3=1)**
Are BOTH are true, that is, does J3 contain Stand-alone tank AND O3 contain "1"?
- ▶ **OR(\$AK3="Single-walled", \$AK3="Double-walled")**
Is EITHER true, that is, does AK3 contain "Single-walled" OR does it contain "Double-walled"?





Excel Formula Examples

- ▶ **=ISBLANK (X3)**
Is cell X3 blank?
- ▶ **=NOT(ISBLANK (X3))**
or...is X3 not blank?

These are just a few of the toys you can play with



=IF (X=,1,0)

=AND (X=,Y=)



=IF (X=,1,0)

=AND (X=,Y=)

=IF (AND (X=,Y=),1,0)

=IF (AND(\$J\$4="A Stand-alone Tank", \$O\$4=1),1,0)



=IF (X=,1,0)

=AND (X=,Y=)

=IF (AND (X=,Y=),1,0)

=IF (AND(\$J\$4="A Stand-alone Tank", \$O\$4=1),1,0)

=IF(AND(X=,OR(X=,X=)),0,1)

=IF(AND(\$AE4="Single-walled", OR(\$AI4="Fiberglass", \$AI4="Rigid Plastic", \$AI4="Flexible", \$AI4="Steel")),0,1)





**MY
BRAIN
HURTS!**



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Data Download Tool Steps



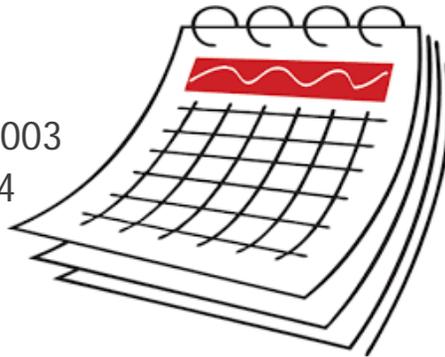
- ▶ Perform a data download from CERS
 - ▶ Multiple UST Facilities
 - ▶ Single UST Facility
- ▶ Copy and Paste into corresponding installation tab
- ▶ Review the Data
- ▶ Don't worry, we will do a Live Demo!



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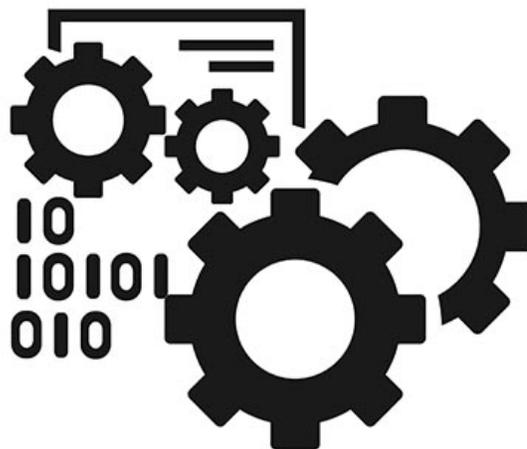
Data Download Tool Organized by Installation Date

- ▶ Pre 1984
- ▶ 1984 - June 1987
- ▶ July 1987 to June 2003
- ▶ July 2003-June 2004
- ▶ Post July 2004



Highlighted Cells

- ▶ Missing Data
- ▶ Incorrect Data
- ▶ Questionable Data



General UST Tank Permit Info							
432	433	434	436	435	430-a	430-b	437
Tank ID #	Tank Manufacturer	Tank Configuration	Tank Capacity In Gallons	Date UST System Installed	Date UST Permanently Closed	Date Existing UST Discovered	Number of Compartments in the Unit
26533	Trusco	A Stand-alone Tank	10000	11/01/2001			2
26535	Trusco	A Stand-alone Tank	20000	11/01/2000			1
26534		One in a Compartm	10000	11/01/2000			2

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General UST Tank Permit Info							
432	433	434	436	435	430-a	430-b	437
Tank ID #	Tank Manufacturer	Tank Configuration	Tank Capacity In Gallons	Date UST System Installed	Date UST Permanently Closed	Date Existing UST Discovered	Number of Compartments in the Unit
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26535	Trusco	A Stand-alone Tank	20000	11/01/2000			1
26534		One in a Compartm	10000	11/01/2000			2

Under Dispenser Containment (UDC) Monitoring							
490-57	490-58	490-59	490-60	490-61	490-62	490-63	490-64a
UDC Leak Sensor Manufacturer	UDC Leak Sensor Model #	Detection of Leak into UDC Triggers Audible and Visual Alarms	UDC Leak Alarm Triggers Automatic Pump Shutdown	Failure/Disconnection of UDC Monitoring System Triggers Automatic Pump Shutdown	UDC Monitoring Stops Flow of Product at Dispenser	UDC Construction	UDC Secondary Containment Monitoring
Veeder-Root	208/304	Yes	No	Yes	No	Single-walled	Liquid
Veeder-Root	208/304	Yes	Yes	Yes	No	Double-walled	Dry
Veeder-Root	208/304	Yes	Yes	Yes	No	Double-walled	Liquid

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General UST Tank Permit Info							
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Veeder-Root	208/304	Yes	No	Yes	No	Single-walled	Liquid
Veeder-Root	208/304	Yes	Yes	Yes	No	Double-walled	Dry
Veeder-Root	208/304	Yes	Yes	Yes	No	Double-walled	Liquid

Tank Use and Contents		
439	439a	440
Tank Use	Specify Other Tank Use	Tank Contents
Motor Vehicle Fueling		Regular Unleaded
Motor Vehicle Fueling		Premium Unleaded
Motor Vehicle Fueling		Diesel
Emergency Generator Fuel		Diesel



formulas derived from...

SWRCB JUNE 2008
 A GENERAL OVERVIEW OF UNDERGROUND STORAGE TANK (UST) CONTAINMENT AND MONITORING REQUIREMENTS

The attached tables outline tank system requirements in general terms, and are not meant to detail all requirements. References to the Health and Safety Code and the California Code of Regulations throughout this Overview are intended to be useful but are not necessarily exhaustive of all legal references that might apply or be relevant to a specific requirement. Laws and regulations are subject to change, so the references contained herein may not be up to date. For more specific information or details on UST system components, monitoring options, etc., you will need to refer to the relevant statutes and regulations (Health and Safety Code, Division 20, Chapter 6.7 and Title 23, California Code of Regulations, Division 3, Chapter 16).

ACRONYMNS

ATG: automatic tank gauge	SW: single-walled
DW: double-walled	SIR: statistical inventory reconciliation
CITLD: continuous in-tank leak detection	UDC: under-dispenser containment
GW: groundwater	VPH: vacuum, pressure, hydrostatic
LLD: line leak detector	

Source: waterboards.ca.gov/water_issues/programs/ust/leak_prevention/docs/ust_req_table_final_6_08.pdf



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Piping Containment and Monitoring

Year of Piping Installation	Product Piping Construction Type	Turbine Containment	Fill Rise Containment	Vapor and Vapor Piping
On or before January 1, 1986 Existing piping only	Motor Vehicle Fuel Tanks: SW Construction • Fiberglass reinforced plastic, HSC 25292(w)(2) • Steel with corrosion protection for all steel/metal OR DW Construction HSC 25292(w)(1)	Not required, but turbine and riser required to have corrosion protection.	Requirement depends on overflow method.	SW
After January 1, 1986 until July 1, 1987	DW OR SW (if certain conditions are met.) HSC 25291(w)(7); CCR 2636(w)(3)(b)	• Required. • SW Construction. CCR 2636	Requirement depends on overflow method. • Remote fill piping may be SW if sloped to the tank.	SW
From July 1, 1987 to June 30, 2003	DW Construction, unless connected to suction dispensing system that meets safe-suction requirements. HS 25291(a); CCR 2636(w)	• Required. • SW Construction. CCR 2636	Requirement depends on overflow method. See LG-150	OR SW CCR 2636(a)(1) OR DW (if designed to contain liquid-phase product) CCR 2636(w)(2)
July 1, 2003 to June 30, 2004	DW HSC 25290.2(d)	• Product-tight (liquid and vapor) required. HSC 25290.2(a) SW OR DW Construction ²	Secondary Containment required. HSC 25290.2(d)	• Secondary Containment required. HSC 25290.1(c) • Liquid and vapor tight. HSC 25290.1(a)
On or After July 1, 2004	DW HSC 25290.1(d)	• Product-tight (liquid and vapor) required. HSC 25290.1(a) SW OR DW Construction ²	Secondary Containment required. HSC 25290.1(d)	• Secondary Containment required. HSC 25290.1(d) • Liquid and vapor tight. HSC 25290.1(a)

² Depends on piping configuration within the sump.

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Piping Containment and Monitoring

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² Depends on piping configuration within the sump.

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Tank Containment and Monitoring

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Year of Tank Installation	Substructure Type	Monitoring Options	Other
On or before January 1, 1984	Motor Vehicle Fuel Tanks <ul style="list-style-type: none"> SW fiberglass. SW steel w/ internal lining or bladder. Corrosion Protection. CCR 2662(d)	SIR and Tank testing every two years. CCR 2643(b)(3) OR ATG 0.2 gph Monthly. CCR 2643(b)(7) OR CITLD 0.2 gph Continuous. CCR 2643(b)(9) OR Manual tank gauging for tanks <= 1000 gallons. CCR 2645 OR GW Monitoring. CCR 2644; 2648 OR Vadose Zone Monitoring. CCR 2644; 2647	<ul style="list-style-type: none"> Internally lined tanks must be recertified 10 years after lining and every 5 years, thereafter. CCR 2663(a) If these tanks have DW components installed, the DW components must be monitored according to the DW requirements for that component.
On or before January 1, 1984	Hazardous substance tanks must have been upgraded or replaced to meet secondary containment requirements. CCR 2662(b)	<ul style="list-style-type: none"> Continuous Interstitial w/ audible and visual alarm. AND Secondary Containment testing every three years. CCR 2637 	
After January 1, 1984 to June 30, 2003	<ul style="list-style-type: none"> Primary containment product tight (liquid). HSC 25291(a)(1) Secondary Containment required. HSC 25291; CCR 2631 	<ul style="list-style-type: none"> Continuous Interstitial w/ audible and visual alarm. AND Secondary Containment testing every three years. CCR 2637 	
On or After July 1, 2003 to June 30, 2004	<ul style="list-style-type: none"> Product tight (liquid and vapor). HSC 25290.2 (a) Secondary Containment required. HSC 25290.2 (a) ; CCR 2631 Designed to prevent water intrusion.¹ HSC 25290.2 (a)(3) 	<ul style="list-style-type: none"> Continuous Interstitial w/ audible and visual alarm. AND Secondary Containment testing every three years. CCR 2637 	
On or After July 1, 2004	<ul style="list-style-type: none"> Product tight (liquid and vapor). HSC 25290.1(a) Secondary Containment required. HSC 25290.1(a) ; CCR 2631 Designed to prevent water intrusion.¹ HSC 25290.1(a)(3) 	Monitored by continuous VPH methods connected to audible and visual alarm. HSC 25290.1(b)	

¹Intrusion caused by precipitation, infiltration or surface runoff.

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contains over **1300** formulas



Not Perfect...There are Limitations

- ▶ Completeness review
- ▶ Does not replace the need to field verify
 - ▶ i.e. sensor model number
- ▶ Retail Gas Station Centric
- ▶ AGAIN...not perfect
 - ▶ Still relies upon YOU and your UST knowledge



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benefits

- ▶ Place to start
- ▶ Provides a guide to develop own internal system
- ▶ Improve submission review time

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Steps for Completeness Check



Step 1 - Facility Operating Permit Application



Step 2 - Tank Information / Monitoring Plan

Step 3 - Monitoring Site Plan



Step 4 - Certification of Financial Responsibility

Step 5 - Response Plan

Step 6 - Owner/Operator: Written Agreement

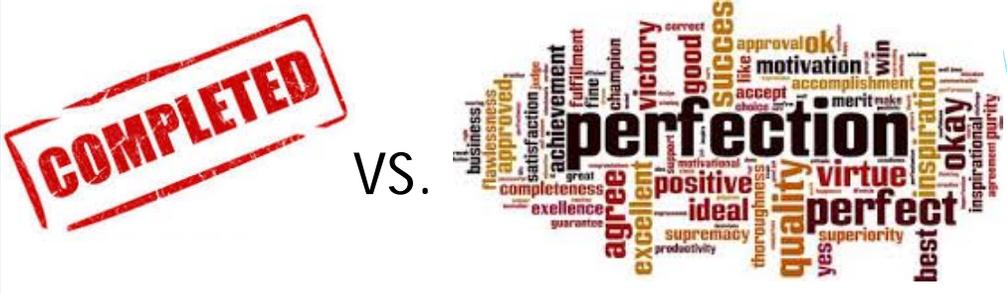
Step 7 - Letter from Chief Financial Officer

Step 8 - Owner Statement of Designated UST Operator Compliance



UST Facility Operating Permit Application	1
UST Tank Information/Monitoring Plan - Tank ID # 26460	2
UST Tank Information/Monitoring Plan - Tank ID # 26461	
UST Tank Information/Monitoring Plan - Tank ID # 26462	
UST Monitoring Site Plan: Upload Document(s)	3
UST Certification of Financial Responsibility: Upload Document(s)	4
UST Response Plan: Upload Document(s)	5
UST Owner/Operator: Written Agreement: Exempt	6
UST Letter from Chief Financial Officer: Upload Document(s)	7
Owner Statement of Designated UST Operator Compliance: Upload Document(s)	8
Miscellaneous State-Required Documents: Upload Document(s) (5)	
Miscellaneous State-Required Documents: Upload Document(s) (2)	8
Owner Statement of Designated UST Operator Compliance: Upload Document(s)	
UST Letter from Chief Financial Officer: Upload Document(s)	





COMPLETED VS.

Level of Review will depend on your business practice

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Additional Notes



- ▶ Check the comments section by the submitter
- ▶ Check for open violations before accepting submittal
- ▶ Use canned language in Regulator comments section when accepting/rejecting CERS Submittals

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Data Download Tool

- ▶ Customizable
- ▶ Intended to aid in reviewing CERS, BUT can be used for other purposes
 - ▶ Tracking
 - ▶ Counting
- ▶ Not protected



Here Comes CERS 3.0!

- ▶ New fields in CERS may result in new data points
- ▶ Removal of fields will result in loss of data points
- ▶ Sacramento County will update the spreadsheet if newer CERS versions increase/decrease # of columns.
- ▶ AND...the spreadsheet is not protected...you can change anything you like...customize away!

New And Improved



Questions?

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916-876-8890



Demo Time!

