



California Underground Storage Tank Program

AB2886 Electronic Reporting

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What Type of Data Must Be Electronically Reported?

AB2886 Electronic Data Deliverables

Begins September 1, 2001

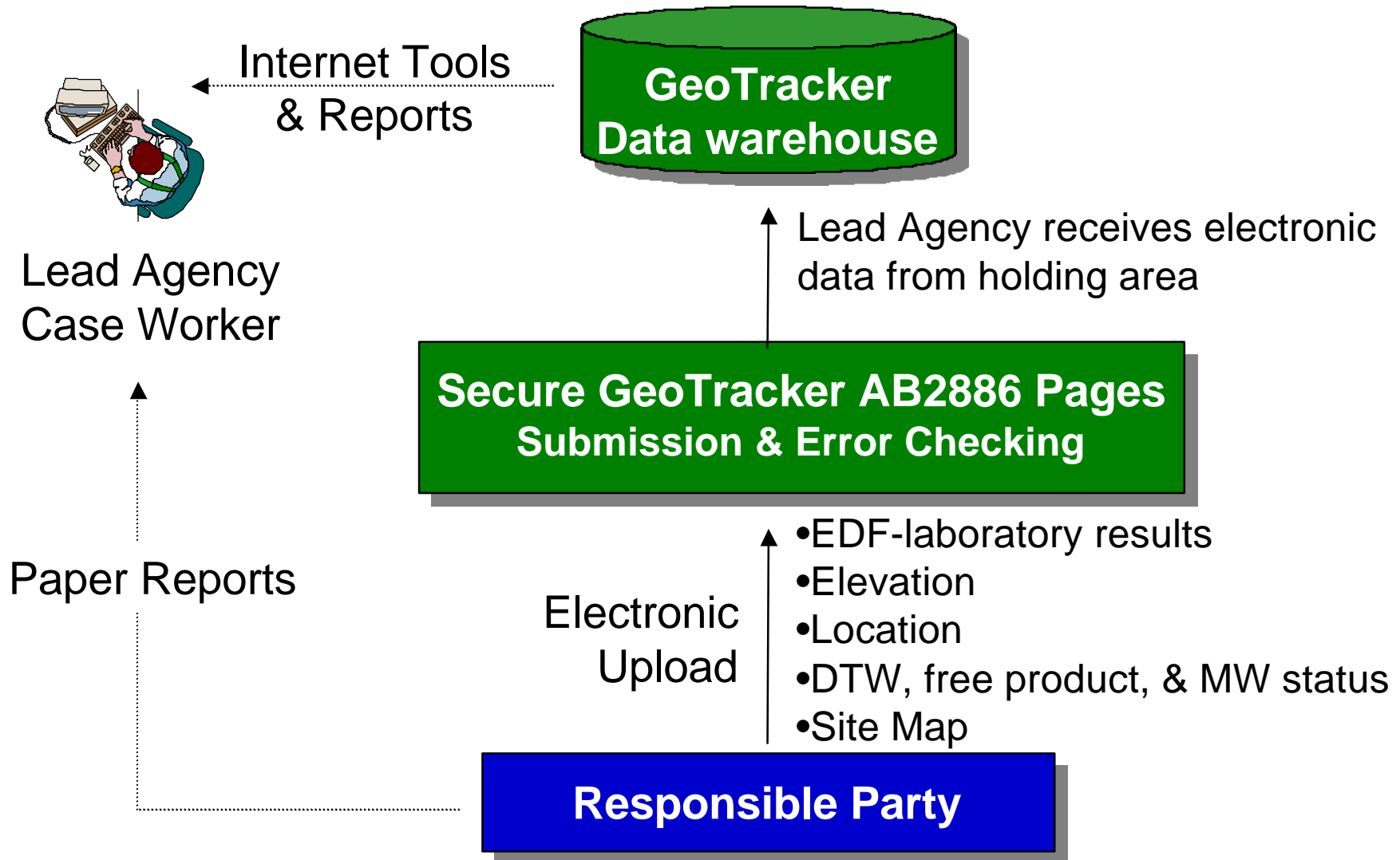
- Laboratory Soil and Groundwater Sample Results

Begins January 1, 2002

- Sample Locations (latitude/longitude)
- Monitoring Well Elevation Data
- Groundwater Well Data (DTW, free product & status)
- Site Map



AB2886 Data Flow

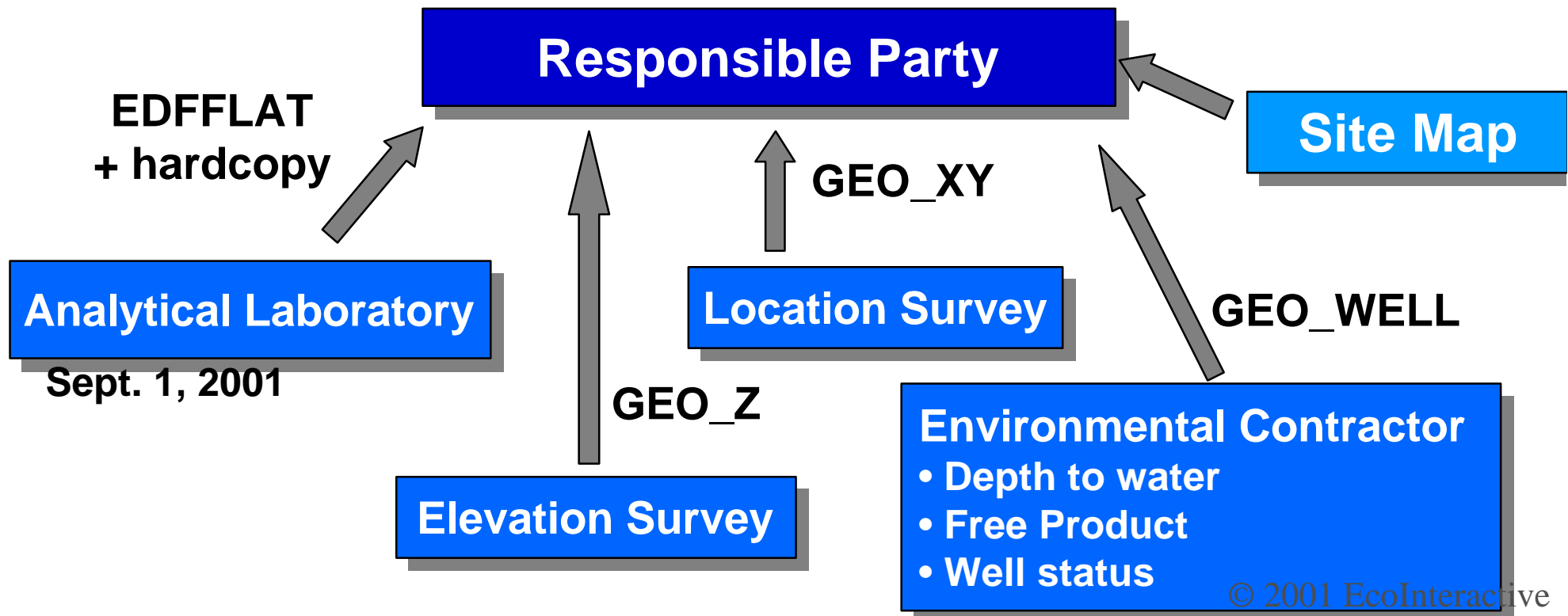




Potential RP Data Flow

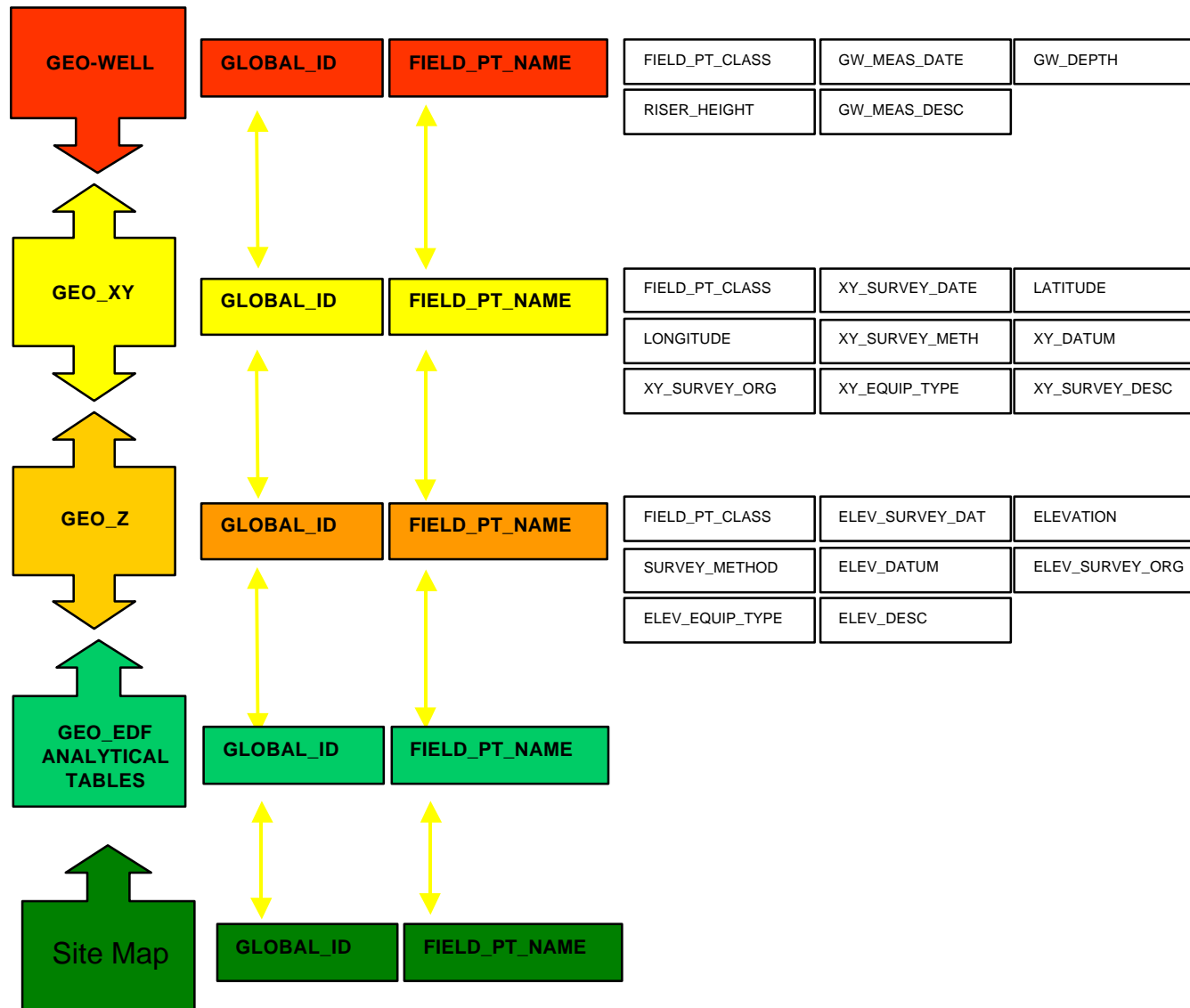
- Submit EDD to GeoTracker
- Submit report to lead agency

- Prepare hard copy report
- Data Interpretation





EDD Relational Files





Electronic Reporting of Analytical Laboratory Data

Begins September 1, 2001

Upload electronic data is to be submitted to GeoTracker when hard copy report is due



What Laboratory Data Is Required?

- Soil
- Groundwater

For all UST samples



Laboratory Sample Results- What is EDF?

- A way to transfer laboratory and field information electronically
- The electronic version of a laboratory report
- Includes:
 - Chain-of custody information
 - Laboratory results
 - Quality assurance information



Examples of EDF Contents

Analytical Results

- Laboratory Ids
- Analysis Date
- Preparation batch
- Results

QA/QC data

- Control Limits
- Surrogates
- Blanks
- Spikes

Chain-of-Custody Data

- Global ID
- Field Point Name
- Sample Ids
- Collection Date/Time
- Preservation



How Laboratories Produce and Reporting EDF Data

- Laboratory exports data from their LIMS
- Data is converted into EDF1.2i upload format with
 - Laboratory LIMS software tools
 - COELT software provided by EDF Program
- EDD is verified with error checking tools
 - GeoTracker web tool
 - EDCC software provided by EDF Program
- Electronic EDF data is transferred to client with hard copy report



EDCC Error Checking Program

Format Errors

- Fields submitted in incorrect order
- Incorrect valid values

Logic Errors, such as...

- Analysis date prior to sample date
- Test without results

Content Errors

- Detection limits greater than reporting limits



Available Support For EDF

- Guidelines & Restrictions- Documentation
- Laboratory Training- Ten (3-day) sessions state-wide
- Desktop Software Tools:
 - COELT- COE Loading Tool
 - EDCC- Electronic Deliverable Consistency Checker (also GeoTracker web version)
- Help Desk Support



Electronic Reporting of LUST Sampling Locations

Begins January 1, 2002

Upload electronic data to regulatory agency
when hard copy report is submitted



Location Data Potential Pitfalls

- Requires sub-meter accuracy
 - Use of survey quality GPS
 - Limited use of 1 to 5 meter GPS units
 - Do not use recreational/navigational GPS units
- Requires submission of metadata
 - Survey XY_Z Restriction & Guidelines (to be released)



Electronic Reporting of Elevation Data

Begins January 1, 2002

Upload electronic data to regulatory agency
when hard copy report is submitted



Elevation Data Potential Issues

- Requires
 - Measured elevation to top of well casing
 - Measure riser height (for new surveys)
- Can not use GPS to determine well elevation
- Requires submission of metadata
 - Survey XY_Z Restriction & Guidelines (to be released)



Get Ready For Electronic Reporting

- Verify that your analytical lab can produce EDF
 - Review/modify your laboratory contracts
 - Test your lab's EDF format by using the desktop EDCC application from SWRCB AB2886 web site
- Plan ahead for location and elevation data
 - Compare costs for several scenarios
 - Outsource
 - Buy GPS equipment
 - Rent GPS equipment
- Check GeoTracker “AB2886” link for new documents and information



<http://geotracker.swrcb.ca.gov/>

A screenshot of the GeoTracker website interface. The page has a blue border and a light blue background. On the left side, there is a vertical panel with a light blue background. It contains a 'Map Address:' section with three input fields for 'Address:', 'City:', and 'Zip:'. Below these is a 'Regional Map:' section with a 'County:' input field and a 'Map It' button. The main content area has a map background. At the top, there is a green circular logo with a white 'G' and the text 'GeoTracker' in large, bold, black letters. Below the logo is the text 'Your link to environmental data for regulated facilities in California'. There are two green horizontal bars with white text: 'TOOLS' and 'INFORMATION'. Under 'TOOLS', there are links: 'Site/Facility Finder', 'Well Concentrations', 'Case Finder', 'MTBE/Case Reports', 'GeoTracker Demo', and 'GeoTracker'. Under 'INFORMATION', there are links: 'About GeoTracker', 'Hot News', 'Drinking Water Quality', 'MTBE Reports', 'Subsurface Investigations', and 'AB2886'. The 'AB2886' link is highlighted with a red rectangular box. At the bottom of the page, there are three links: 'Contact Us', 'SWRCB', and 'GeoTracker'.

- Global ID
- Field Pt Name



GeoTracker Electronic Reporting Tools

Security, Error-checking, Internet
EDD Submission



Security Identification

- Responsible parties will need to obtain a password to submit data
- RPs can request a password on-line

To access or modify your sites, please enter your username and password below:

Username:

Password:

Login

If you do not have a username and password, request one using our [Password Request](#) page.



On-line Password Request

AB2886 Electronic Delivery

[Main Menu](#) | [Request Facility](#) | [View Associated Facilities](#)

Requesting a Password

Step 1: Submit Contact Information

User Information:

User Type:

Username:

Password:

Contact Information:

Name:

Address:

City:

State: Zip:

Phone Number: (XXX-XXX-XXXX)

Email Address:

Comments/Questions:

Submit Request

AB2886 Electronic Delivery

[Main Menu](#) | [Request Facility](#) | [View Associated Facilities](#)

- User name required.
- Password required.
- Name required.
- Street address required.
- City required.
- State required.
- Zip code required.
- User type required.
- Phone number not in required format (###-###-####).
- Proper email address.

Requesting a Password

Step 1: Submit Contact Information

User Information:

User Type:

Username:

Password:

Contact Information:

Name:



Responsible Party Electronic Reporting Interface

1. Request/view LUST sites associated with RP
2. Find GeoTracker LUST site and well Ids
 - Use error checking tools & get error reports
 - Upload/submit EDDs

AB2886 Electronic Delivery
[Main Menu](#) | [Request Facility](#) | [View Associated Facilities](#)

View/Add Facilities Request Additional Facilities View Associated Facilities	Find GeoTracker ID's LUST Sites Sampling Points
Upload EDDs GEO XY GEO Z EDFFLAT GEO WELL	Error Check EDDs GEO XY GEO Z EDFFLAT GEO WELL

Logged in as Joe Smith.



RPs Request Permission to Submit EDD for Sites

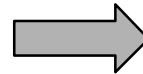
AB2886 Electronic Delivery
[Main Menu](#) | [Request Facility](#) | [View Associated Facilities](#)

Search for a Facility Below:

Facility Name

Street Name

City



AB2886 Electronic Delivery			
Main Menu Request Facility View Associated Facilities			
Select the Facilities You Wish to Request:			
Add	Facility Name	Address	City
<input type="checkbox"/>	CHEVRON	1805 YGNACIO VALLEY RD	WALNUT CREEK
<input type="checkbox"/>	CHEVRON	699 YGNACIO VALLEY RD	WALNUT CREEK
<input type="checkbox"/>	CHEVRON	1490 WINTON AVE W	HAYWARD
<input type="checkbox"/>	CHEVRON	2950 WOODSIDE RD	WOODSIDE
<input type="checkbox"/>	CHEVRON	710 WOODSIDE RD	REDWOOD CITY
<input type="checkbox"/>	CHEVRON	3400 WILLOW PASS RD	CONCORD
<input type="checkbox"/>	CHEVRON	2380 WILLOW PASS RD	CONCORD
<input type="checkbox"/>	CHEVRON	2001 WILLOW PASS RD	CONCORD
<input type="checkbox"/>	CHEVRON	3405 WINCHESTER BLVD S	CAMPBELL
<input type="checkbox"/>	CHEVRON	1301 WINCHESTER BLVD S	SAN JOSE
<input type="checkbox"/>	CHEVRON	585 WHIPPLE AVE	REDWOOD CITY
<input type="checkbox"/>	CHEVRON	600 WHIPPLE AVE	REDWOOD CITY
<input type="checkbox"/>	CHEVRON	1790 WHIPPLE RD	UNION CITY
<input type="checkbox"/>	CHEVRON	2801 WHITE RD S	SAN JOSE
<input type="checkbox"/>	CHEVRON	1440 WASHINGTON ST E	PETALUMA
<input type="checkbox"/>	CHEVRON	1802 WEBSTER ST	ALAMEDA
<input type="checkbox"/>	CHEVRON	990 VETERANS BLVD	REDWOOD CITY
<input type="checkbox"/>	CHEVRON	9401 VILLAGE PKWY	SAN RAMON

Logged in as Joe Smith.



Obtain Global IDs and Sampling Point Names

AB2886 Electronic Delivery
[Main Menu](#) | [Request Facility](#) | [View Associated Facilities](#)

View/Add Facilities Request Additional Facilities View Associated Facilities	Find GeoTracker ID's <div>LUST Sites</div> Sampling Points
Upload EDDs GEO XY GEO Z EDFFLAT GEO WELL	Error Check EDDs GEO XY GEO Z EDFFLAT GEO WELL

Download Global IDs only for Sites associated with a RP's password

Logged in as Joe Smith.



Error Check Before Submission

- The “browse” button will let you choose a file from your computer
- The “import” button will submit the file to error checking program
- Dynamic error check reports will be returned

Check EDFLAT
Import Step 1: Locate the Data File

Select the file by using the "Browse" button below. The file must follow the [uploaded file format guidelines](#). **Be aware, this is not an upload and will NOT be considered a submission to the SWRCB.**


Find File:



Uploading Data For Submission

- The “browse” button will let you choose a file from your computer
- The “import” button will submit the file to the SWRCB
- All data will be “error checked” and data must pass the error check to be submitted
- Confirmation number will be returned

Importing EDFLAT	
Import Step 1: Select Site Data Files	
Select the EDF file by using the "Browse" button below. The uploaded file must follow the uploaded file format guidelines . Be aware, uploading an EDF file will be considered a submission to the SWRCB.	
Location/Substance File:	<input type="text"/> <input type="button" value="Browse..."/>
<input type="button" value="Import Data"/>	
Success! The Procedure Was Successful	
There were no errors in your data! Data successfully processed.	
Click here to go back to the main menu.	



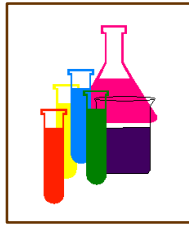


What Is the GeoTracker Solution?

A data warehouse that integrates data across environmental programs via the internet

- Is the choice of the SWRCB to manage the MTBE problem
- Provides public access and supports business-to-government transactions
- Facilitates decentralized data management-lead agencies “own” and manage their data
- Simplifies data exchange and improves data quality

Electronic Reporting



Analytical Data

On-line permitting & compliance reporting



Environmental Contractors

Regulatory Tracking & GIS Coverages

Government Agencies



- State
- Local
- Federal

GeoTracker

- Data warehouse
- Integration Hub
- Data Exchange Center
- Seamless GIS interface

Decision Support

- Financial
- Technical
- Regulatory

Public Access



Integrated Access

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE / CONTAMINATION SITE REPORT

REPORT DATE: (MM/DD/YYYY)

HAZARDOUS MATERIAL INCIDENT REPORT FILED WITH OES? :

I, REPORTED BY

REPORTING INDIVIDUAL: (First and Last Name)

FAX: (###-###-####)

PHONE: (###-###-####)

EMAIL:

REPORTING INDIVIDUAL TYPE:(select all that apply - hold down ctrl to select multiple)

☐ Business Owner
☐ Owner-Agent
☐ Operator
☐ Tank Owner
☐ Fee Title/Property Owner
☐ Local Agency

ORGANIZATION NAME:

MAILING ADDRESS:

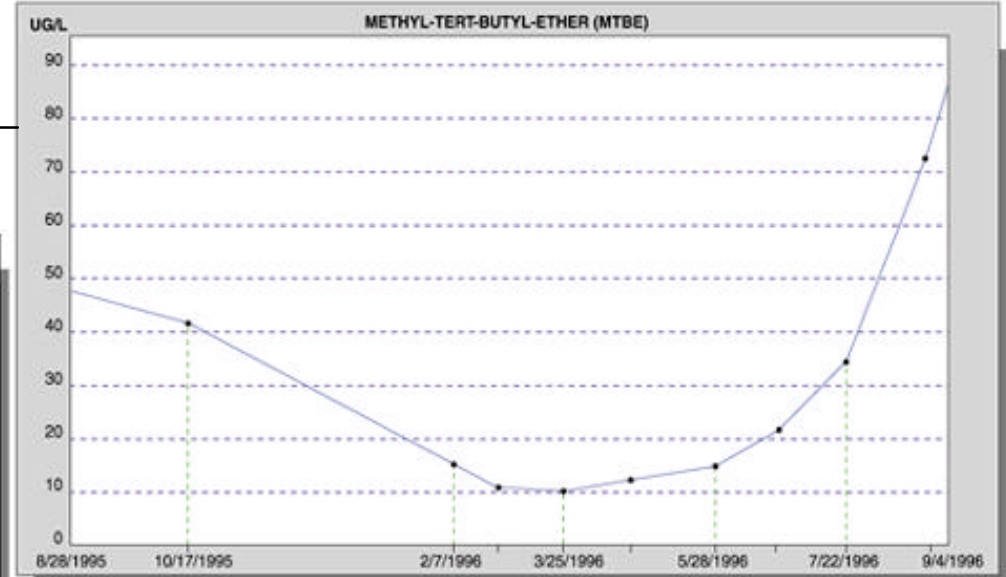
STREET ADDRESS:

APT/SUITE/
BUILDING #:

CITY:

STATE:

ZIP:



Leaking Underground Fuel Tank Report for:

GAS STATION
1000 MAIN BLVD
SAN MILLER, CA 97944

Site Info: ([regulatory history](#)) | ([locational information](#)) | ([detailed site info](#))

Regional Board:	LOS ANGELES RWQCB (REGION 4)
Local Agency (lead agency):	SAN MILLER LOCAL AGENCY

Leak Info: ([more detailed release information](#))

Substance Released:	GASOLINE
Remediation on site:	

4 Public Water Well(s) Estimated to be Within 1/2 Mile: ([detailed well info](#))
[Show this Site on Map](#)

- ◆ Database integration
- ◆ Optimized web performance
- ◆ On-line permitting and public reporting
- ◆ Download data from the web
- ◆ On-line analysis & GIS tools
- ◆ Tools to position facilities on-line
- ◆ On-line reports and database edit screens



Internet Access to Site Data

Leaking Underground Fuel Tank Report

ROTTEN ROBBIE (SOUTH LAKE TAHOE)

2601 LAKE TAHOE BLVD.
SOUTH LAKE TAHOE, CA 96150

[\(Show this Site on Map\)](#)

Regional Board (lead agency)

LAHONTAN RWQCB (REGION 6T)

Local Agency

EL DORADO DEPT. OF ENV. HEALTH MANAGEMEN

Choose a Report To View

Site Info:

- [Regulatory History](#)
- [Locational Information](#)
- [Analytical Data](#)

Leak Info:

- [Detailed Release Information](#)
- [Remediation on Site](#)

Additional Info:

- [10 Monitoring Wells For This LUFT Site](#)
- [11 Public Water Well\(s\) Estimated to be Within 1/2 Mile of this LUFT Site](#)



View/Graph Monitoring Well Data

Monitoring Well MW-4 Report

ROTTEN ROBBIE (SOUTH LAKE TAHOE)
2601 LAKE TAHOE BLVD.
SOUTH LAKE TAHOE, CA 96150
[\(Show this Site on Map\)](#)

Regional Board (lead agency)
LAHONTAN RWQCB (REGION 6T)
Local Agency
EL DORADO DEPT. OF ENV. HEALTH MANAGEMEN

Plot Selected Chemicals

Reset Boxes

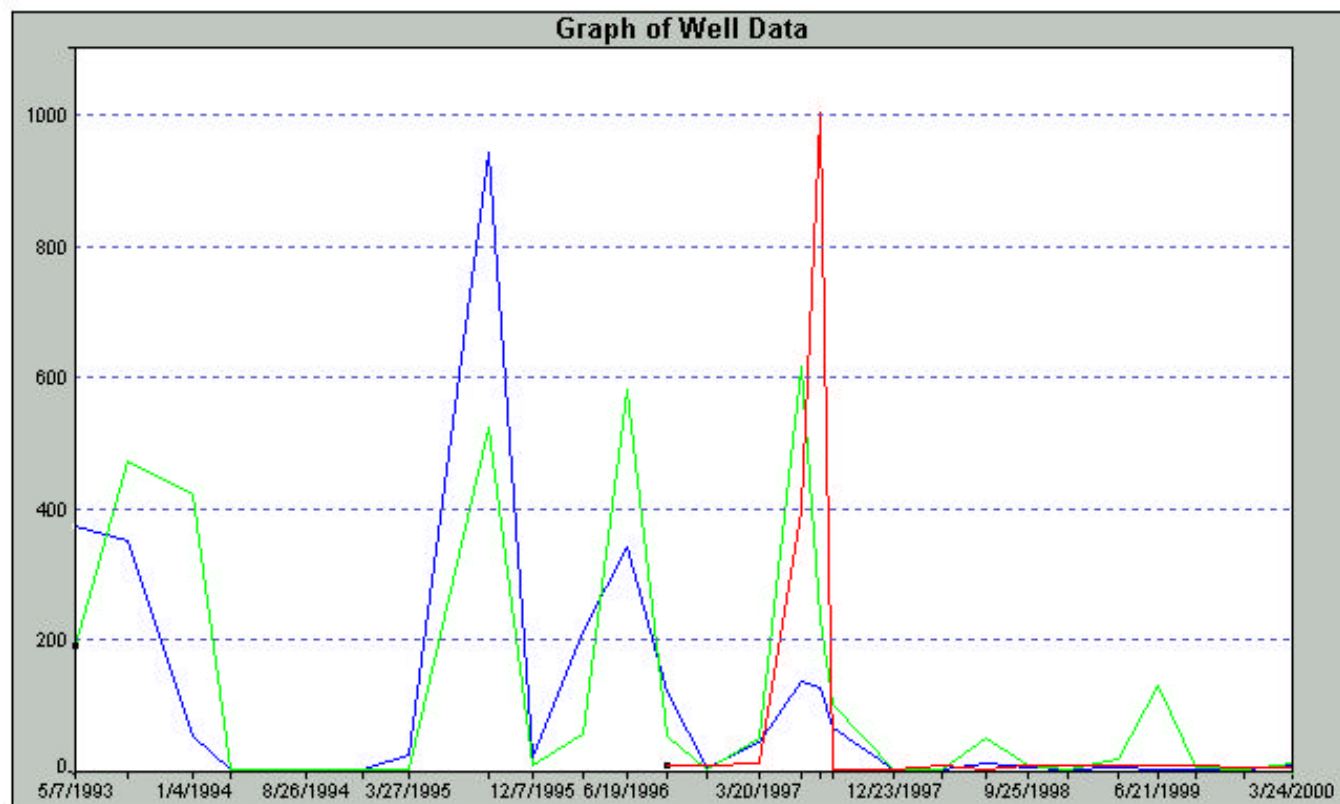
Note: You may select up to 6 chemicals.

[\(All Data\)](#) | [\(Most Recent\)](#) | [\(Maximum Concentrations\)](#)

<u>Date</u>	<u>Parameter</u>	<u>Qualifier</u>	<u>Result</u>	<u>Units</u>	<u>Plot</u>
NA	TOLUENE		5540		<input type="checkbox"/>
NA	BENZENE		940		<input checked="" type="checkbox"/>
NA	ETHYLBENZENE		613		<input checked="" type="checkbox"/>
NA	XYLENES (TOTAL)		6100		<input type="checkbox"/>
NA	METHYL-TERT-BUTYL-ETHER (MTBE)		1000		<input checked="" type="checkbox"/>
NA	TRIBROMOACETIC ACID (TBAA)		5		<input type="checkbox"/>



Plot Trends



Chemical

[BENZENE](#)

[ETHYLBENZENE](#)

[METHYL-TERT-BUTYL-ETHER \(MTBE\)](#)

Color

Blue

Green

Red



Examine Drinking Water Quality

Well Concentrations Search Form

Water System Name

City

Chemical

METHYL-TERT-BUTYL-ETHER (MTBE)

Qualifier

>

Value

5

Records 21 - 40 of 51 Records

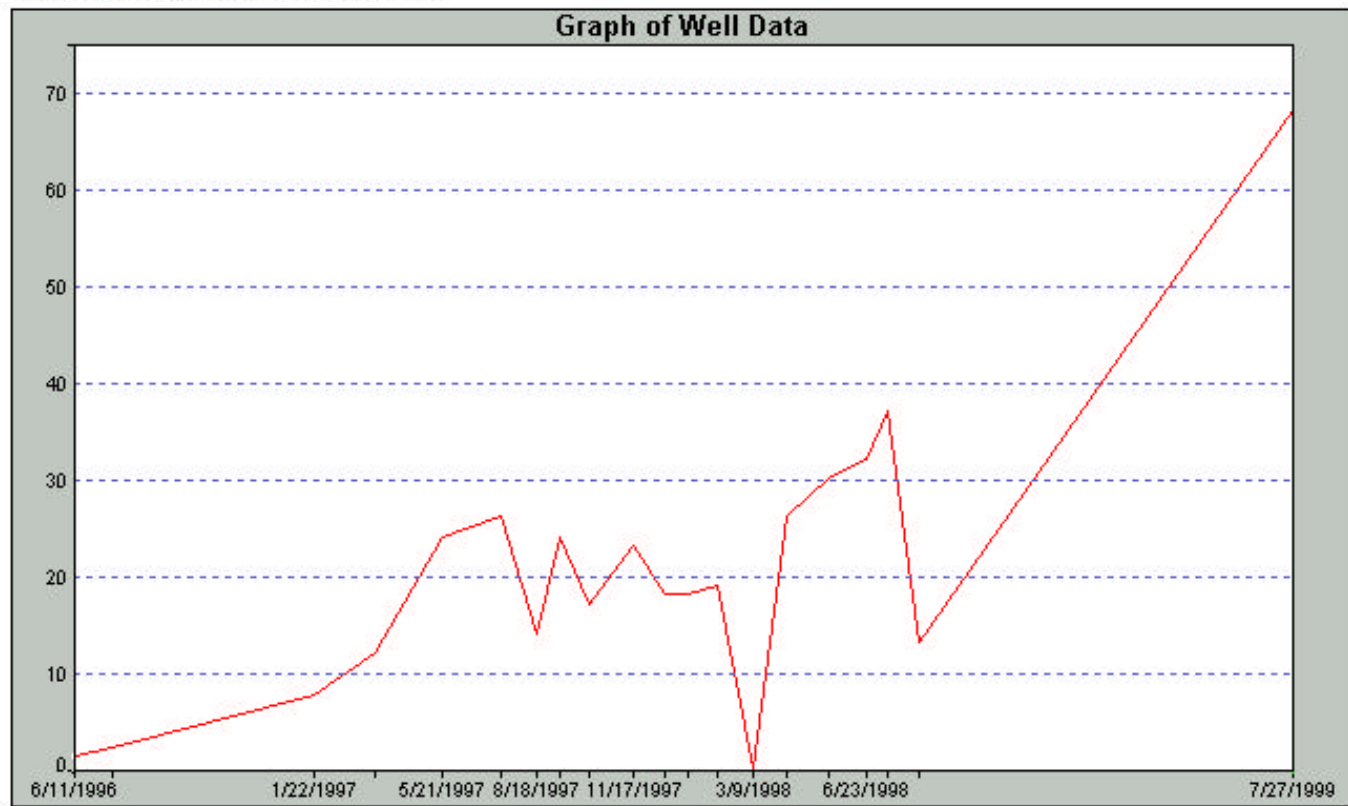
METHYL-TERT-BUTYL-ETHER (MTBE) Findings

Well Name	PWS System	City	Max Value		
19 TH STREET GAC - TREATED	SAN BERNARDINO, CITY OF	SAN BERNARDINO	11	Show on Map	Graph
EL CAPITAN LAKE - RAW	SAN DIEGO CITY OF (WATER DEPARTMENT)	SAN DIEGO	11.2	Show on Map	Graph
VERDUGO WELL 02	BRUCE KUEBLER	LOS ANGELES	13	Show on Map	Graph
CANYON LAKE - RAW	ELSINORE VALLEY M W D	LAKE ELSINORE	14	Show on Map	Graph
LAKE PERRIS (EFFLUENT OR SURFACE)		LA VERNE	15	Show on Map	Graph
ARCADIA WELL 04 - STANDBY	SANTA MONICA - CITY	SANTA MONICA	19.6	Show on Map	Graph
AIR STRIPPING TOWER T-200B (S) INFLUENT	BURBANK-CITY, WATER DEPT	BURBANK	20	Show on Map	Graph
LOPEZ TREATMENT PLANT RAW	LOPEZ PROJECT	SAN LUIS OBISPO	20	Show on Map	Graph
TRAVIS WTP - TREATED	EXEQUIEL GANDING JR	VALLEJO	22	Show on Map	Graph
WELL 06 - ABANDONED	PRESIDIO OF SAN FRANCISCO	SAN FRANCISCO	23	Show on Map	Graph
WELL 11 - INACTIVE	FRUITRIDGE VISTA WATER CO	SACRAMENTO	25	Show on Map	Graph
CONCERTO 01 - INACTIVE	SOUTHERN CALIF WC -YORBA LINDA	ANAHEIM	40.9	Show on Map	Graph
WELL 05 - INACTIVE	SOUTHERN PACIFIC COMPANY	BLOOMINGTON	46	Show on Map	Graph
WELL 01	GARY DRILLING WATER SYSTEM	BAKERSFIELD	47	Show on Map	Graph



Graph Drinking Water Quality

SOUTH TAHOE PUD - MAIN (SOUTH LAKE TAHOE)
TATA WELL 04 (ANGORA WELL 10)
State Well Number: 12N/18E-05R02 M



Date	Parameter	Qualifier	Result	Units	MCL
7/27/1999	METHYL-TERT-BUTYL-ETHER (MTBE)		68	UG/L	5
8/10/1998	METHYL-TERT-BUTYL-ETHER (MTBE)		13	UG/L	5
7/13/1998	METHYL-TERT-BUTYL-ETHER (MTBE)		37	UG/L	5
6/23/1998	METHYL-TERT-BUTYL-ETHER (MTBE)		37	UG/L	5



Expected Benefits

- Enable easy exchange of information between the regulatory agencies, industry, and the public
- Builds an information network to integrate data-
[Supports other programs](#)
- Provides statewide access to permit, compliance, and enforcement actions- [Integrated easy access](#)
- Moves agencies and regulated businesses to electronic reporting- [Improves data quality](#)
- Allows analysis of previously unknown relationships- [Better decisions](#)



GeoTracker LUST Data

- MTBE reported maximum concentrations
 - Present historic data is hand-entered by regulators
 - Will be derived from EDF data
 - Will improve as lab results (EDF) are electronically reported
- Regulatory tracking
 - Regulators enter these fields
 - Improving as agencies move on-line



GeoTracker LUST Data

- Location data
 - Estimated by geocoding site address (median error ~380 feet)
 - On-line tools allow lead agency case workers to edit the site location on the GeoTracker maps
 - RPs will report sampling locations
 - Will improve as latitude/longitude data is electronically reported and as regulators position sites on maps



GeoTracker Public Drinking Water Source Data

- Historical location data is of poor quality
 - Originally obtained from DHS records (estimated from township range maps)
 - Only 30% estimated to be within 1000 feet
 - Improved data by using state well name to position some wells to the center of the quarter quad
 - For single well systems, estimated by geocoding facility address



GeoTracker Public Drinking Water Source Data

- The SWRCB is working with DHS to improve drinking source locations
 - On-line tools allow well owners to edit the site location on the GeoTracker maps
 - SWRCB provides DHS with new locations
 - Improved locations of ~4,000 public wells
- DHS is moving to requiring electronic reporting of water quality data