



Electronic Submission Of Laboratory Data And Sample Information For UST Reports

STL - Sacramento, September 20, 2001

Michael W. Gjerde

Division of Clean Water Programs, SWRCB

(916) 341-5682

gjerdem@cwpswrcb.ca.gov



EDF Overview

- ◆ Why
- ◆ Who
- ◆ What
- ◆ Where
- ◆ When
- ◆ How to
- ◆ How Much
- ◆ Help



Why

- ◆ Assembly Bill 2886 (2000)
- ◆ Bring accurate and timely data about MTBE into centralized public database (GeoTracker)
- ◆ SWRCB to adopt emergency regulations concerning electronic submission of UST reports
- ◆ First attempt to get statewide submission of electronic data
- ◆ Applies to soil and water samples from UST sites



What Is GeoTracker

- ◆ 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



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



Who

- ◆ Laboratories to prepare chemical analytical results in specified Electronic Deliverable Format (EDF) for soil and water samples
- ◆ RPs to submit electronic laboratory. sample information, and locational data to SWRCB in addition to regular hard copy reports sent to lead agency
- ◆ Lead Agency to match electronic lab submission with receipt of hard copy reports



What

- ◆ Adds Article 12 (Sections 2729 and 2729.1) to Chapter 16, Division 3, Title 23, CCR
- ◆ Authority: Water Code Sections 13195 to 13198
- ◆ Requires:
 - Electronic submission of laboratory reports for soil and water samples
 - Locational and sample data



Electronic Laboratory Reports - September 1, 2001

- ◆ Electronic submittal of EDF laboratory data over the Internet shall be in addition to hard-copy laboratory reports...
- ◆ Generated by either COELT or other laboratory software.
- ◆ All data shall be checked for errors prior to submittal, using the EDCC software consistency checking tool.



EDF

- ◆ “EDF” is Electronic Deliverable Format developed for the United States Army Corps of Engineers.
- ◆ Data standard
- ◆ Set of relational database files
- ◆ Data components include:
 - the chain-of custody information,
 - laboratory results,
 - and quality assurance information.



How Laboratories Produce and Report 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



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



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



Electronic Reporting of Sampling Locations

Begins January 1, 2002

GeoTracker Help

800-506-9118

geotrackerhelp@ecointeractive.com



Location (XYZ) Data

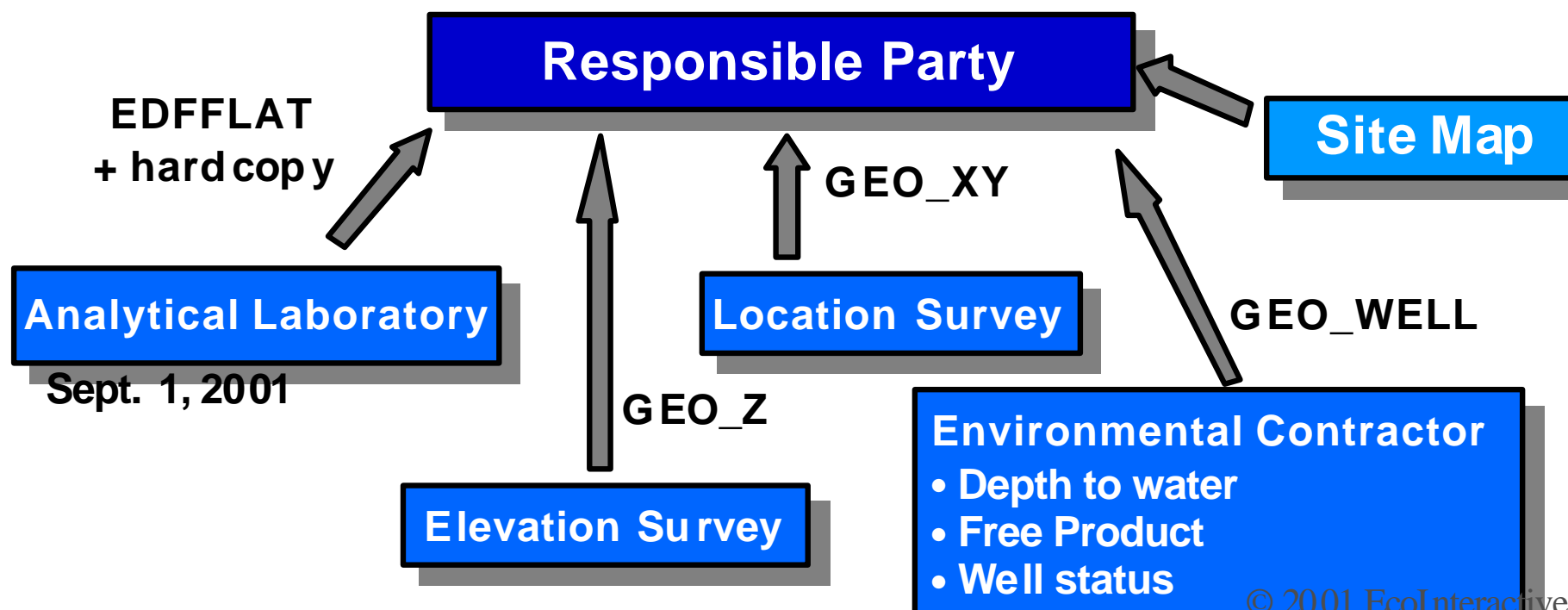
- ◆ Survey XYZ Guidelines and Restrictions
- ◆ The latitude and longitude of groundwater monitoring wells accurate to within one meter,
- ◆ The surveyed elevation, relative to mean sea level, of well casing in monitoring wells sampled,
- ◆ Groundwater information (DTW, FP, status),
- ◆ Site map for sample locations.



Potential RP Data Flow

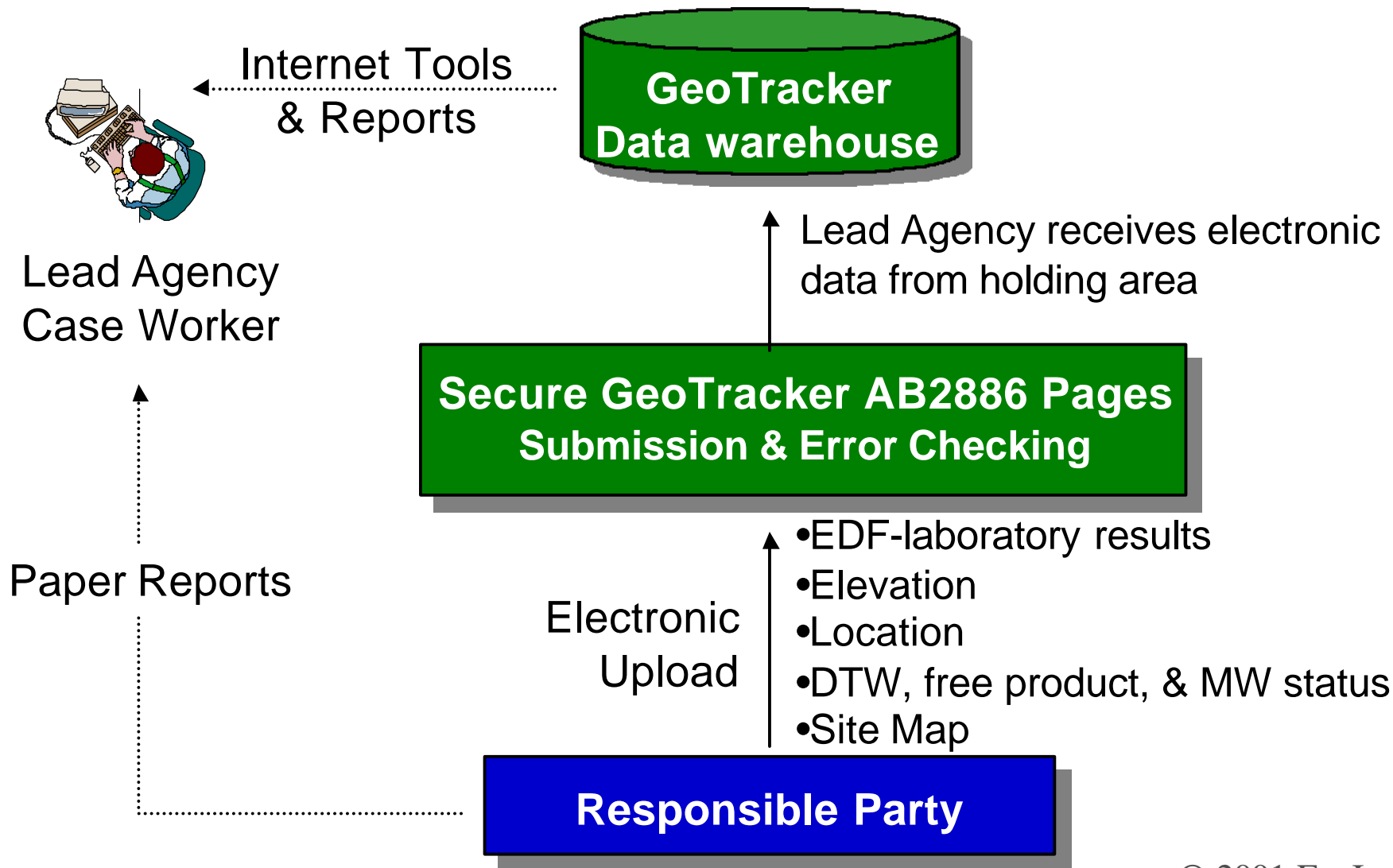
- Submit EDD to GeoTracker
- Submit report to lead agency

- Prepare hard copy report
- Data Interpretation



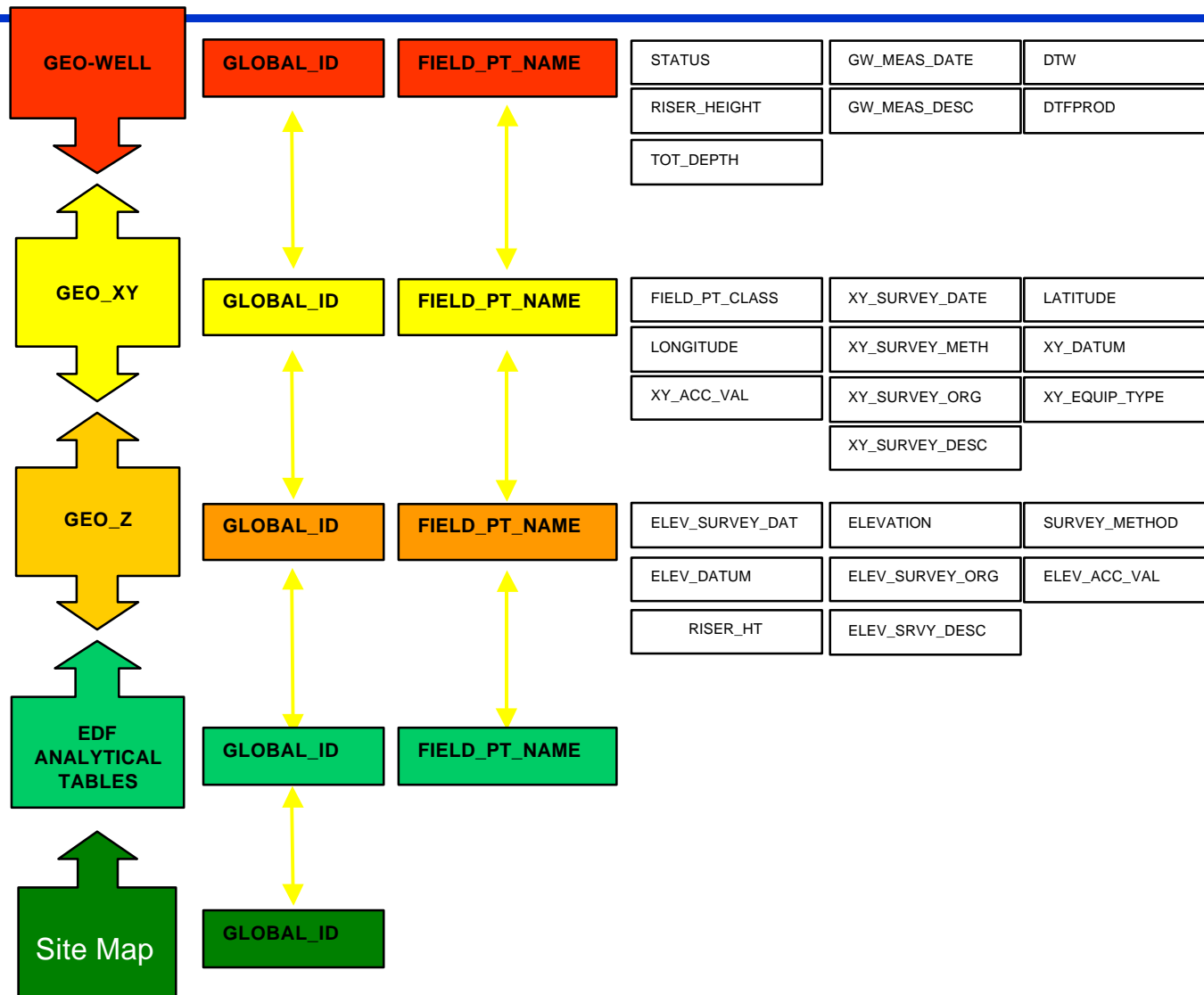


AB2886 Data Flow





GeoTracker EDD Relational Files





Location Data

- ◆ Requires Survey Quality Locations
- ◆ Sub-meter accuracy-
Latitude/Longitude (decimal degrees, HPGN NAD83)
- ◆ State Business and Professions Code Sec. 8726 (a, b, f, m), Sec. 6731.1 (a, b, c)
- ◆ Requires submission of metadata
Survey XY_Z Restriction & Guidelines



Location Survey Methods

- ◆ Use of survey quality GPS technology
 - Do not use Mapping grade 1 to 5 meter GPS units
 - Do not use recreational/navigational GPS units
- ◆ Classical Survey Techniques combined with HPGN reference points
 - Triangulation
 - Traverse (Federal Geodetic Control Subcom. 3rd order)
 - Trilateration
- ◆ Classical Survey Techniques combined with GPS



Elevation Data Potential Issues

- ◆ Requires
 - Measured elevation to top of well casing
- ◆ Use of licensed surveyor
- ◆ Requires submission of metadata
- ◆ Survey XY_Z Restriction & Guidelines



Elevation Survey Methods

- ◆ Digital differential leveling
- ◆ Differential leveling using HPGN GPS vertical reference points
 - ≥ 3 surrounding reference points



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
- ◆ Check GeoTracker "AB2886" link for new documents and information



Web Pages

- ◆ <http://www.swrcb.ca.gov>.
 - <http://www.swrcb.ca.gov/cwphome/ust/docs/ab2886/list.html>
 - Implementation section
 - Direct Link from main page, Emergency regulations
- ◆ SWRCB GeoTracker Database
 - <http://geotracker.swrcb.ca.gov/>
- ◆ Passwords and Login
 - <https://geotracker.swrcb.ca.gov/ab2886/>



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

A screenshot of the GeoTracker website interface. The page has a blue sidebar on the left and a main content area with a map background. The sidebar contains a 'Map Address' section with input fields for Address, City, and Zip, and a 'Regional Map' section with a County input field and a 'Map It' button. The main content area features the 'GeoTracker' logo, a tagline, and two columns of links under 'TOOLS' and 'INFORMATION'. The link 'AB2886' is highlighted with a red box. At the bottom, there are links for 'Contact Us', 'SWRCB', and 'GeoTracker'.

Map Address:
Address:
City:
Zip:
Regional Map:
County:

GeoTracker
Your link to environmental data for regulated facilities in California

TOOLS	INFORMATION
Site/Facility Finder	About GeoTracker
Well Concentrations	Hot News
Case Finder	Drinking Water Quality
MTBE/Case Reports	MTBE Reports
GeoTracker Demo	Subsurface Investigations
GeoTracker	AB2886

[Contact Us](#) [SWRCB](#) [GeoTracker](#)



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](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Requesting Login

Step 1: Submit Contact Information

User Information:

Username:

Password:

User Type:

Responsible Party
Contractor
Laboratory
Authorized RP Agent

Confirm Password:

Address:

City:

Stat

Phone Number: (XXX-XXX-XXXX) Email Address:

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:



Permission for Consultants to Submit Data

RP or “Authorized RP Agent”

Obtains Password



Request Facilities —————> Reg. Yes/No



Consultants Request Facilities —————> RP Yes/No

Site 1

- Consultant 1
- Consultant 2
- Consultant 3

Site 2

- Consultant 1
- Consultant 2
- Consultant 5

Site 3

- Consultant 1
- Consultant 4
- Consultant 5



Responsible Party Electronic Reporting Interface

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

AB2886 Electronic Delivery	
Main Menu View/Add Facilities Upload EDD Check EDD	
View/Add Facilities	Upload EDDs
Monitor Site Requests	Error Check EDDs

Logged in as test

CONTACT SITE [ADMINISTRATOR](#)



RPs Request Permission to Submit EDD for Sites

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

[Request Facilities](#)

[View Associated Facilities](#)

[View Pending Facilities](#)

[View Denied Facilities](#)

[Download Associated Global IDs](#)

[Download Field Point Names](#)

[Upload Field Point Names](#)

Logged in as test

CONTACT SITE [ADMINISTRATOR](#).



RPs Request Permission to Submit EDD for Sites

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Request Facilities

Step 1: Search For Facilities (use * for wildcard searches)

Facility Name

Street Name

City

Davis

County

Facility Type

LUFT Sites

Search For Facility

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Request Facilities

Step 2: Check the facilities you wish to request

68 Facilities found

page 1 of 2

Add	Facility Name	Address	City
<input type="checkbox"/>	A E HARTER INC	5100 CHILES RD	DAVIS
<input type="checkbox"/>	AILEEN OLSON LABOR CAMP	COUNTY RD 34 A	DAVIS
<input type="checkbox"/>	ANTIBODIES INC	CO RD 95	DAVIS
<input type="checkbox"/>	ARCO #05332	705 RUSSELL BLVD	DAVIS
<input type="checkbox"/>	ARCO (FORMER)	1800 OLIVE DR	DAVIS
<input type="checkbox"/>	BP (FORMER EXXON)	400 MACE BLVD	DAVIS
<input type="checkbox"/>	CA DEPT OF FORESTRY & FIRE	5950 CHILES RD	DAVIS
<input type="checkbox"/>	CABLE CAR WASH	904 3RD ST	DAVIS
<input type="checkbox"/>	CAMPBELL SOUP CO	1314 MACE BLVD	DAVIS
<input type="checkbox"/>	CAMPBELL SOUP CO AG RS	28605 RD 104	DAVIS
<input type="checkbox"/>	CHEVRON #9-1420	1935 ANDERSON RD	DAVIS
<input type="checkbox"/>	CHEVRON #9-5631	980 OLIVE DR	DAVIS
<input type="checkbox"/>	CHEVRON #9-9148	4475 CHILES RD	DAVIS
<input type="checkbox"/>	CIRCLE-K #01914	1930 LAKE BLVD	DAVIS
<input type="checkbox"/>	CITY OF DAVIS	23 RUSSELL BLVD	DAVIS



Approve/Deny Permission to Submit EDD for Sites

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Select the Facilities you wish to approve:

Approve	Deny	User	Facility Name	Address	City
<input type="checkbox"/>	<input type="checkbox"/>	Danman	KENITA ENTERPRISES	24961 WHISLER DR	LAKE FOREST
<input type="checkbox"/>	<input type="checkbox"/>	Danman	KENITA ENTERPRISES	24961 WHISLER DR	LAKE FOREST

Approve All

Deny All

Reset Checkboxes

Approve/Deny Facilities

Logged in as test

CONTACT SITE [ADMINISTRATOR](#)



Obtain Global IDs and Sampling Point Names

AB2886 Electronic Delivery
[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Facility Tools	Download/Upload
Request Facilities	Download Associated Global IDs
View Associated Facilities	Download Field Point Names
View Pending Facilities	Upload Field Point Names
View Denied Facilities	

Logged in as chu chuCONTACT SITE [ADMINISTRATOR](#).



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




Upload Sampling Point Names

AB2886 Electronic Delivery
[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Facility Tools	Download/Upload
Request Facilities	Download Associated Global IDs
View Associated Facilities	Download Field Point Names
View Pending Facilities	Upload Field Point Names
View Denied Facilities	

Logged in as chui chui

CONTACT SITE [ADMINISTRATOR](#)



Global ID	Field Pt Name	Facility ID
122446	MW-01	C366
122446	MW-02	C366
122446	MW-03	C366
213356	MW-01	CR112`
213356	MW-02	CR112



Error Check Before Submission

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Error Checking EDD Menu

GEO_XY

[EDF](#)

GEO_Z

GEOWELL

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Uploading EDF File - Associated Facilities

You Must First Search for Associated Facilities

(use * for wildcard)

Facility Name

Street Name

City

County

Facility Type

LUFT Sites

Search For Facility



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 EDFFLAT
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:

Success!
The Procedure Was Successful

There were no errors in your data! Data successfully processed.

Click [here](#) to go back to the main menu.





Who Pays

- ◆ Electronic Reporting Costs
 - Laboratory Analysis
 - Elevation Surveys
 - Depth to Water
 - Locational Surveys
- ◆ “The UST Clean Up Fund will pay for all costs that are reasonable, necessary,....and eligible.”



Enforcement

- ◆ The Cleanup Fund may not reimburse the costs of laboratory analysis performed after September 1, 2001 if they do not include EDF
- ◆ Lead Agency may refuse to sign off on proposed case closures
- ◆ Lead Agency may decline to review reports submitted without the EDF
- ◆ Lead Agency will take enforcement action, starting with informal actions such as phone call or letter.



Available Support For EDF

- ◆ Guidelines & Restrictions- Documentation
- ◆ Laboratory Training- Ten (3-day) sessions state-wide
- ◆ Online Training and Tutorials
- ◆ Desktop Software Tools:
 - COELT- COE Loading Tool
 - EDCC- Electronic Deliverable Consistency Checker (also GeoTracker web version)
- ◆ Help Desk Support 1-800-506-3887



Available Support For Location Data

- ◆ Survey XYZ Guidelines & Restrictions-
- ◆ RP/Consultant/Regulator training sessions state-wide
- ◆ Online Training and Tutorials
- ◆ Desktop Software Tools:
 - DataStream Free
 - DataStream Free Documentation
- ◆ Help Desk Support 1-800-506-9118



Summary

- ◆ WHY - AB 2886
- ◆ WHO - Labs, RPs, Lead Agencies, SWRCB
- ◆ WHAT - EDF lab reports, Sample Information
- ◆ WHERE - over Internet to SWRCB GeoTracker
- ◆ WHEN - Sept 1, 2001 lab data, January 1, 2002 locational data
- ◆ HOW - Passwords, manage sites, submit data
- ◆ HELP - SWRCB Web Pages, Help desks



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



QUESTIONS?
