John Borkovich, PG
GAMA Program
State Water Resources Control Board

Water Boards

GAMA Background

- Legislature's concern about groundwater quality
- Budget Act of 2000
- Water Code Section 10780
  - Groundwater Quality Monitoring Act of 2001 - (AB 599, Liu)
  - Groundwater Quality Monitoring – (2008. AB 2222, Caballero)

Water Boards

GAMA Program Functions

- Coordinate with water agencies
- Collect new data
- Combine new and existing data

(water quality, water level, contaminant sources)

- Assess groundwater quality
- Serve information to the public

Water Boards

GeoTracker GAMA:
Groundwater Information System

- Fulfills AB599 intent: Central data system
- Shares data from CDPH, USGS, LLNL, DWR, DPR, State and Regional Water Boards
- Water quality, PLUS water levels, contaminant sources, groundwater publications
- Groundwater quality data collected with State funds must comply with AB 599 - but electronic submittal not specified (AB 1747)

System is capable of expanding more

Water Boards

Groundwater Quality Information

Water Boards

State Water Resources Control Board - Windows Internet Explorer provided by Internet Explorer 7 for SWRCB

http://www.waterboards.ca.gov/water_issues/programs/gama/geotracker_gama.shtml

File Edit View Favorites Tools Help

State Water Resources Control Board

Page Tools

Programs | Available Documents | Hot Topics |

- Cal/EPA
- State and Regional Water Boards' Map
- Laws/Regulations
- Plans/Policies
- Programs
- Decisions Pending and Opportunities for Public Participation

Water Quality

Performance Report

Website Feedback

GAMA RESOURCES

- GAMA Home
- Priority Basin Project
- Domestic Well Project
- Special Studies Project
- California Aquifer Susceptibility Project
- Groundwater Reports
- Chemicals of Concern (COC) Information Sheets
- Related Laws and Regulations
- Sources of Groundwater

Home » Water Issues » Programs » Gama

GAMA – Groundwater Ambient Monitoring & Assessment Program

GeoTracker GAMA Groundwater Data Sources

GeoTracker GAMA provides user-friendly internet access to groundwater data. Data are searchable by chemical, with results displayed on an interactive map (shown below).

» Start GeoTracker GAMA

Access system through GAMA Homepage

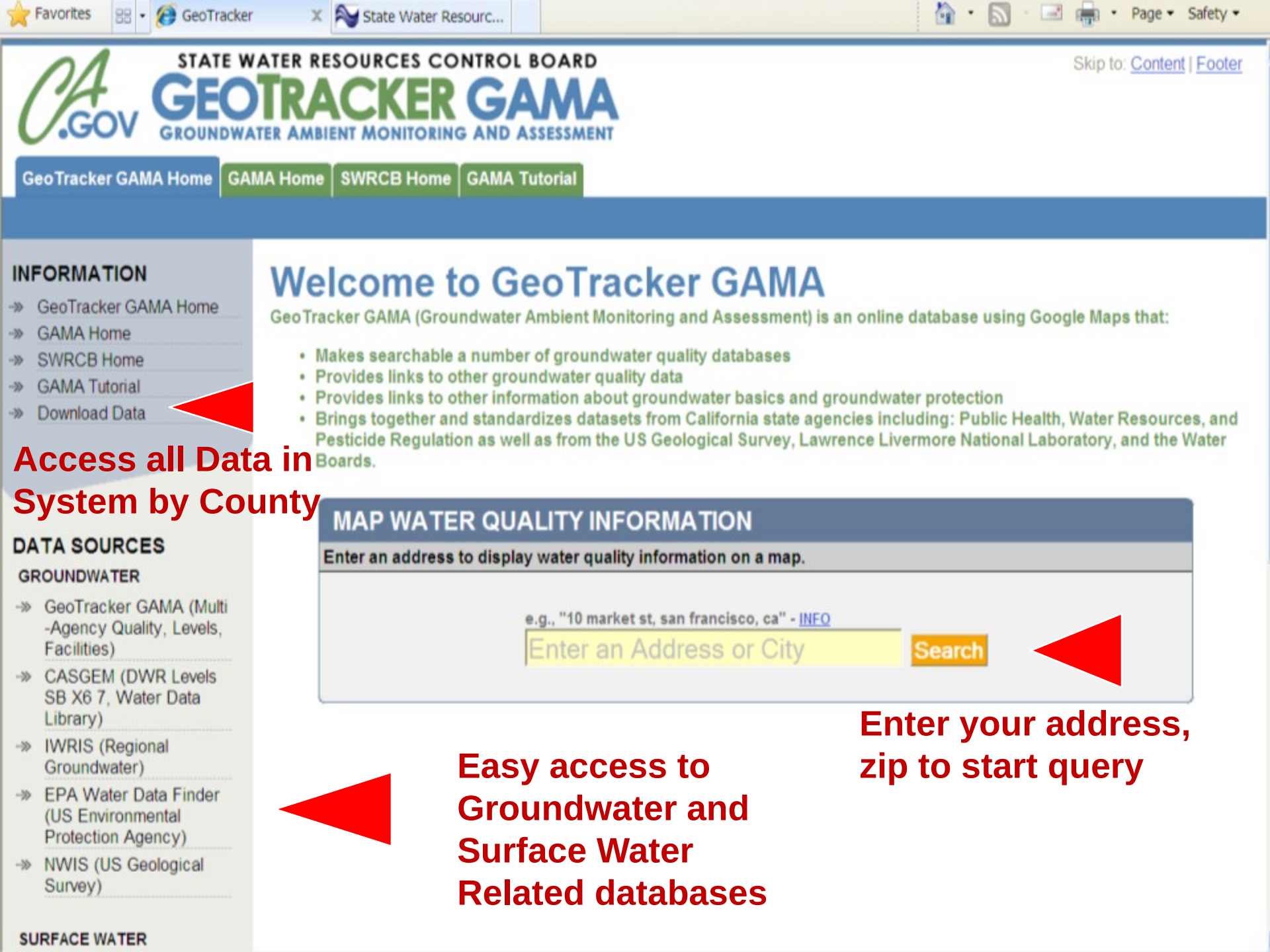
GeoTracker GAMA includes data for over 150,000 locations. GeoTracker GAMA integrates, standardizes, and provides tools to analyze several datasets, including data from:

- State and Regional Water Boards (SWRCB/RWQCB)
- California Department of Public Health (CDPH)
- Department of Pesticide Regulation (DPR)
- Department of Water Resources (DWR)
- United States Geological Survey (USGS)
- Lawrence Livermore National Laboratory (LLNL)

Shared datasets listed here

Sources of GeoTracker GAMA Data are depicted in the figure below. Move your mouse cursor over a well (A, B, C) for more information on these data sources.

Done Trusted sites 100%


Favorites
GeoTracker
State Water Resourc...
Page
Safety
STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER GAMA
GROUNDWATER AMBIENT MONITORING AND ASSESSMENT
Skip to: Content | Footer
GeoTracker GAMA Home
GAMA Home
SWRCB Home
GAMA Tutorial
INFORMATION
GeoTracker GAMA Home
GAMA Home
SWRCB Home
GAMA Tutorial
Download Data
Welcome to GeoTracker GAMA
GeoTracker GAMA (Groundwater Ambient Monitoring and Assessment) is an online database using Google Maps that:
Makes searchable a number of groundwater quality databases
Provides links to other groundwater quality data
Provides links to other information about groundwater basics and groundwater protection
Brings together and standardizes datasets from California state agencies including: Public Health, Water Resources, and Pesticide Regulation as well as from the US Geological Survey, Lawrence Livermore National Laboratory, and the Water Boards.
Access all Data in System by County
DATA SOURCES
GROUNDWATER
GeoTracker GAMA (Multi -Agency Quality, Levels, Facilities)
CASGEM (DWR Levels SB X6 7, Water Data Library)
IWRIS (Regional Groundwater)
EPA Water Data Finder (US Environmental Protection Agency)
NWIS (US Geological Survey)
SURFACE WATER
MAP WATER QUALITY INFORMATION
Enter an address to display water quality information on a map.
e.g., "10 market st, san francisco, ca" - INFO
Enter an Address or City
Search
Enter your address, zip to start query
Easy access to Groundwater and Surface Water Related databases

GROUNDWATER

- GeoTracker GAMA (Multi -Agency Quality, Levels, Facilities)
- CASGEM (DWR Levels SB X6 7, Water Data Library)
- IWRIS (Regional Groundwater)
- EPA Water Data Finder (US Environmental Protection Agency)
- NWIS (US Geological Survey)

SURFACE WATER

- CEDEN (Surface Water Quality)
- EPA Water Data Finder (US Environmental Protection Agency)
- EWRIMS (Water Rights)
- NWIS (US Geological Survey)

FACILITY INFORMATION

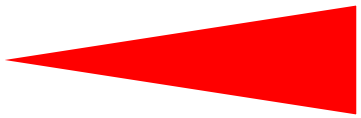
- GeoTracker (Cleanup Sites - Water Boards)
- EnviroStor (Cleanup Sites & Hazardous Waste Permits - DTSC)
- CIWQS (Permitted Facilities)

DRINKING WATER

- CDPH (CA Dept of Public Health)

e.g., "10 market st, san francisco, ca" - INFO

Enter an Address or City Search



Access to Groundwater and Surface Water Related databases

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER GAMA

GROUNDWATER AMBIENT MONITORING AND ASSESSMENT

INFORMATION

- GeoTracker GAMA Home
- GAMA Home
- SWRCB Home
- GAMA Tutorial
- Download Data

DATA SOURCES

GROUNDWATER

- GeoTracker GAMA (Multi-Agency Quality, Levels, Facilities)
- CASGEM (DWR Levels SB X6 7, Water Data Library)
- IWRIS (Regional Groundwater)
- EPA Water Data Finder (US Environmental Protection Agency)
- NWIS (US Geological Survey)

SURFACE WATER

- CEDEN (Surface Water Quality)
- EPA Water Data Finder (US Environmental Protection Agency)
- EWRIMS (Water Rights)
- NWIS (US Geological Survey)

GAMA DATA DOWNLOAD - TAB DELIMITED FORMAT

LAST UPDATED: 7/18/2011 1:02:42 PM

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Calaveras [CDPH] [DPR] [EDF] [ALL DATA]
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Tuolumne [CDPH] [DPR] [DWR] [EDF] [ALL DATA]
Ventura [CDPH] [DPR] [DWR] [EDF] [USGS] [ALL DATA]
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More information about these datasets can be found here.

Access all Data in System by County - Over 100M results

gama_all_alpine - Notepad

File Edit Format View Help

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0202501-001	38.77	-119.82 CLBZ	0	UG/L	12/13/1988	CDPH	CDPH	ALPINE	6	CARSON	VALLEY
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0202501-001	38.77	-119.82 DBCME	0	UG/L	12/13/1988	CDPH	CDPH	ALPINE	6	CARSON	VALLEY
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0202501-001	38.77	-119.82 DCE11	0	UG/L	12/13/1988	CDPH	CDPH	ALPINE	6	CARSON	VALLEY
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0202501-001	38.77	-119.82 FC12	0	UG/L	12/13/1988	CDPH	CDPH	ALPINE	6	CARSON	VALLEY
0202501-001	38.77	-119.82 MIBK	0	UG/L	12/13/1988	CDPH	CDPH	ALPINE	6	CARSON	VALLEY
0202501-001	38.77	-119.82 PCA	0	UG/L	12/13/1988	CDPH	CDPH	ALPINE	6	CARSON	VALLEY
0202501-001	38.77	-119.82 PCE	0	UG/L	12/13/1988	CDPH	CDPH	ALPINE	6	CARSON	VALLEY

File so large need to export to Text Delimited format

Favorites | GeoTracker GAMA | State Water Resourc... | Page | Safety

GEOTRACKER GAMA

LOCAL INFORMATION

CITY
UNINCORPORATED

COUNTY
MADERA - VIEW WATER REPORTS

GROUNDWATER BASIN

ZOOM IN TO SEE BORING LOGS

LEGEND

- SUPPLY WELLS - CDPH (within one mile of actual location)
- SUPPLY WELLS - OTHER (within 1/2 mile of actual location)
- MONITORING WELLS - REGULATED SITES (exact locations displayed)
- ICONS WITH A CIRCLE AROUND THEM SIGNIFY A CLUSTER OF WELLS

ADDITIONAL TOOLS

- DEPTH-TO-WATER
- DEPTH-TO-WATER CHANGE
- GROUNDWATER ELEVATION

MAP SIZE: 640x480

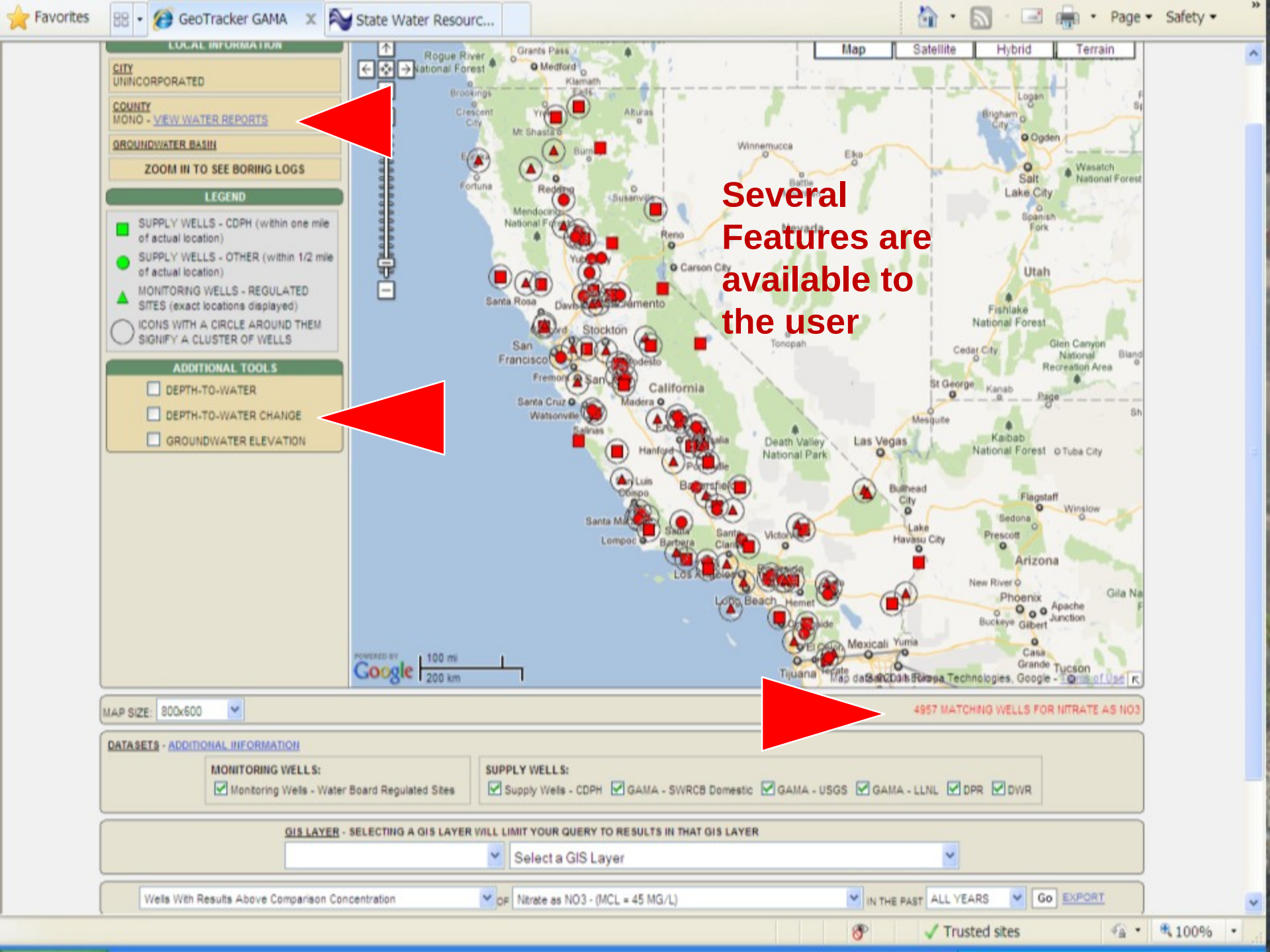
221148 MATCHING WELLS FOR NITRATE AS NO3

DATASETS - ADDITIONAL INFORMATION

MONITORING WELLS:
- [x] Monitoring Wells - Water Board Regulated Sites

SUPPLY WELLS:
- [x] Supply Wells - CDPH
- [x] GAMA - SWRCB Domestic
- [x] GAMA - USGS
- [x] GAMA - LLNL
- [x] DPR
- [x] DWR

Done | Trusted sites | 125%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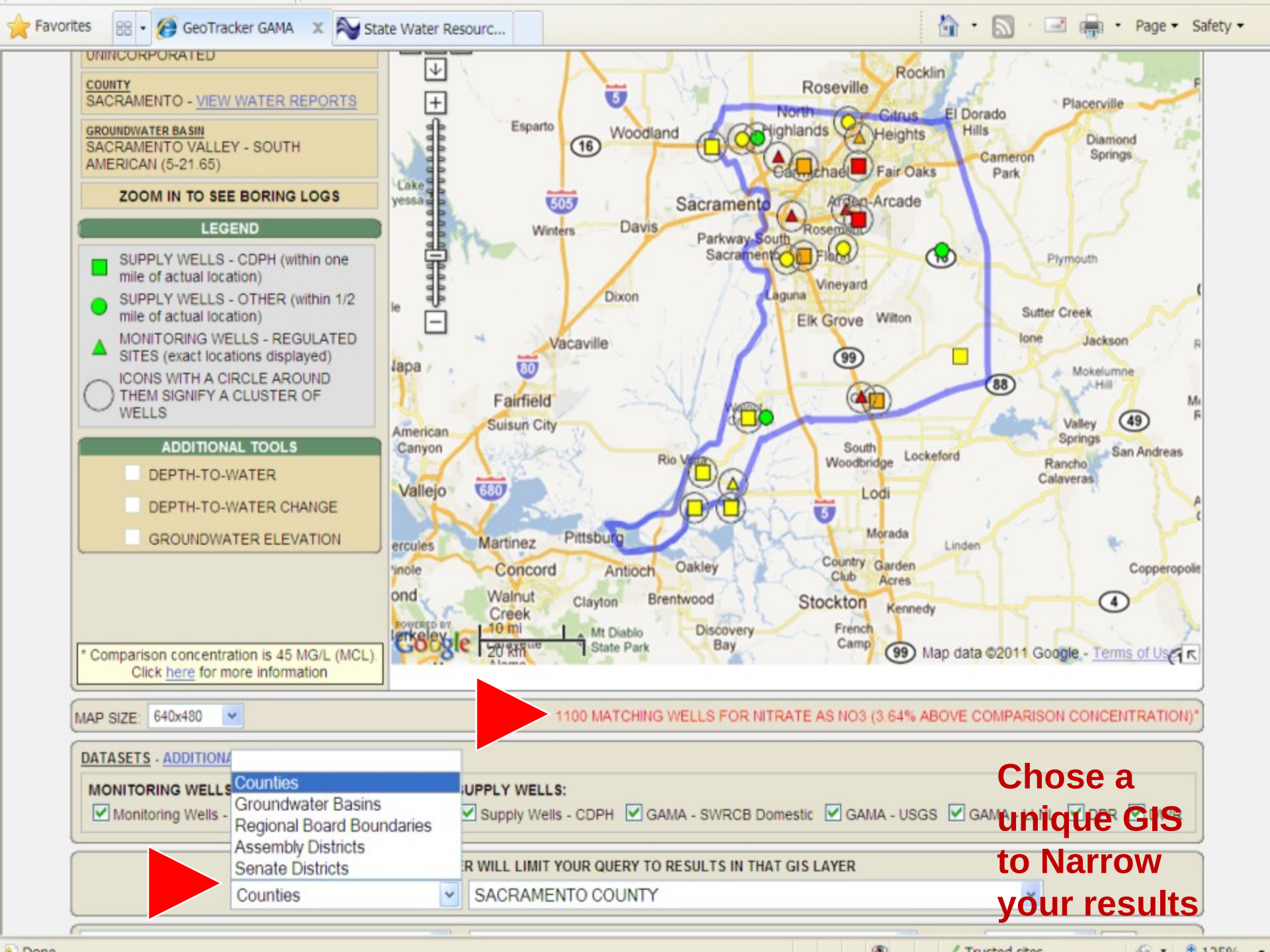
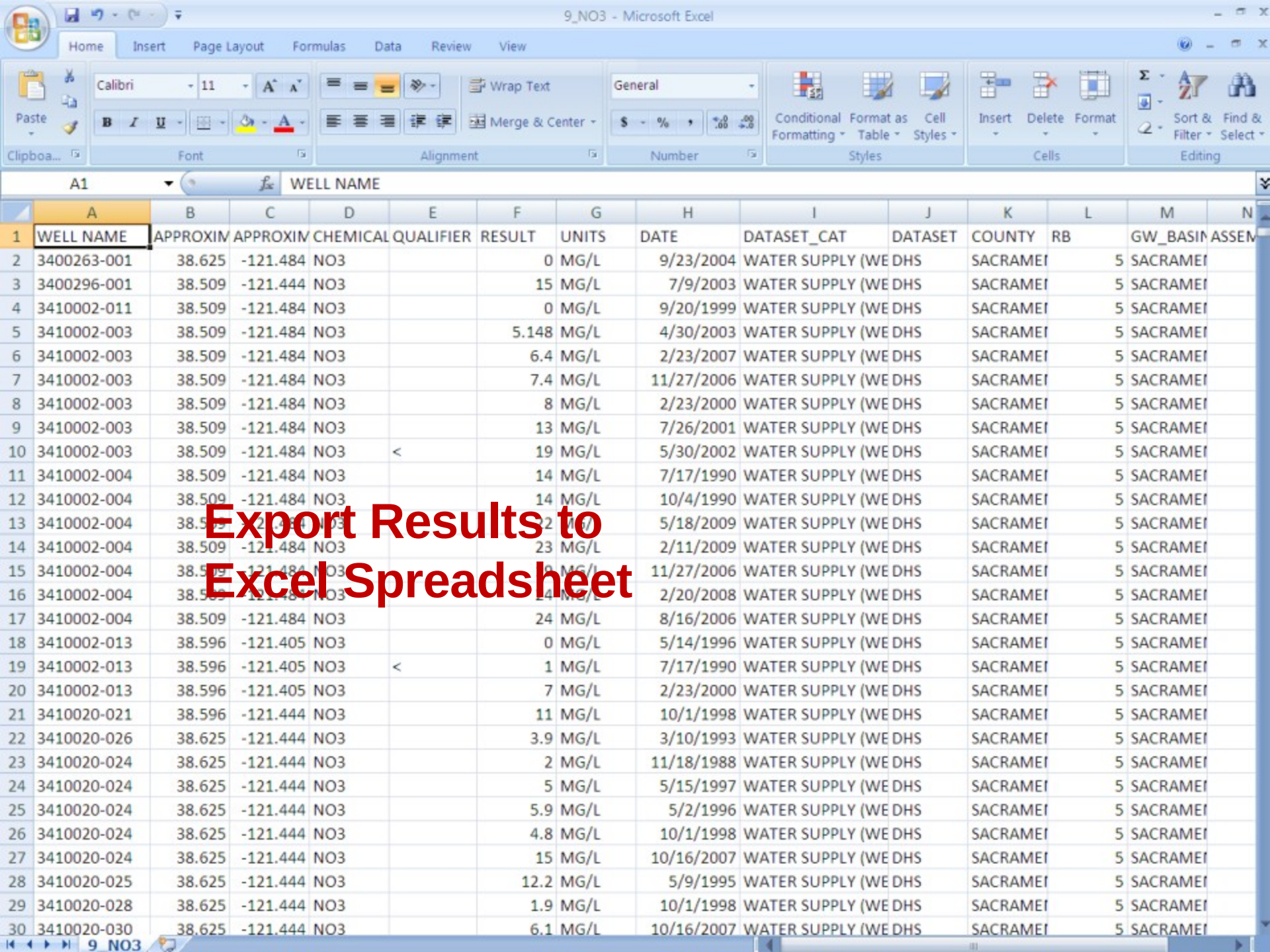

Favorites
GeoTracker GAMA
State Water Resourc...
Page
Safety
UNINCORPORATED
COUNTY
SACRAMENTO - VIEW WATER REPORTS
GROUNDWATER BASIN
SACRAMENTO VALLEY - SOUTH AMERICAN (5-21.65)
ZOOM IN TO SEE BORING LOGS
LEGEND
SUPPLY WELLS - CDPH (within one mile of actual location)
SUPPLY WELLS - OTHER (within 1/2 mile of actual location)
MONITORING WELLS - REGULATED SITES (exact locations displayed)
ICONS WITH A CIRCLE AROUND THEM SIGNIFY A CLUSTER OF WELLS
ADDITIONAL TOOLS
DEPTH-TO-WATER
DEPTH-TO-WATER CHANGE
GROUNDWATER ELEVATION
* Comparison concentration is 45 MG/L (MCL). Click here for more information
Roseville
Rocklin
North Highlands
Citrus Heights
El Dorado Hills
Placerville
Diamond Springs
Esparto
Woodland
Cameron Park
Fair Oaks
Sacramento
Arden-Arcade
Winters
Davis
Parkway-South Sacramento
Plymouth
Vineyard
Dixon
Laguna
Elk Grove
Wilton
Sutter Creek
Ione
Jackson
Vacaville
Mokelumne Hill
Fairfield
Suisun City
American Canyon
Valley Springs
San Andreas
South Woodbridge
Lockeford
Rancho Calaveras
Vallejo
Lodi
Martinez
Pittsburg
Morada
Linden
Concord
Antioch
Oakley
Country Club
Garden Acres
Copperopolis
Walnut Creek
Clayton
Brentwood
Stockton
Kennedy
Mt Diablo State Park
Discovery Bay
French Camp
10 mi
20 km
Map data ©2011 Google - Terms of Use
MAP SIZE: 640x480
1100 MATCHING WELLS FOR NITRATE AS NO3 (3.64% ABOVE COMPARISON CONCENTRATION)*
DATASETS - ADDITIONA
MONITORING WELLS
Monitoring Wells -
Counties
Groundwater Basins
Regional Board Boundaries
Assembly Districts
Senate Districts
SUPPLY WELLS:
Supply Wells - CDPH
GAMA - SWRCB Domestic
GAMA - USGS
R WILL LIMIT YOUR QUERY TO RESULTS IN THAT GIS LAYER
Counties
SACRAMENTO COUNTY
Chose a unique GIS to Narrow your results



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3	3400296-001	38.509	-121.444	NO3		15	MG/L	7/9/2003	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
4	3410002-011	38.509	-121.484	NO3		0	MG/L	9/20/1999	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
5	3410002-003	38.509	-121.484	NO3		5.148	MG/L	4/30/2003	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
6	3410002-003	38.509	-121.484	NO3		6.4	MG/L	2/23/2007	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
7	3410002-003	38.509	-121.484	NO3		7.4	MG/L	11/27/2006	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
8	3410002-003	38.509	-121.484	NO3		8	MG/L	2/23/2000	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
9	3410002-003	38.509	-121.484	NO3		13	MG/L	7/26/2001	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
10	3410002-003	38.509	-121.484	NO3	<	19	MG/L	5/30/2002	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
11	3410002-004	38.509	-121.484	NO3		14	MG/L	7/17/1990	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
12	3410002-004	38.509	-121.484	NO3		14	MG/L	10/4/1990	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
13	3410002-004	38.5	-121.484	NO3		22	MG/L	5/18/2009	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
14	3410002-004	38.509	-121.484	NO3		23	MG/L	2/11/2009	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
15	3410002-004	38.5	-121.484	NO3		9	MG/L	11/27/2006	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
16	3410002-004	38.5	-121.484	NO3		24	MG/L	2/20/2008	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
17	3410002-004	38.509	-121.484	NO3		24	MG/L	8/16/2006	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
18	3410002-013	38.596	-121.405	NO3		0	MG/L	5/14/1996	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
19	3410002-013	38.596	-121.405	NO3	<	1	MG/L	7/17/1990	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
20	3410002-013	38.596	-121.405	NO3		7	MG/L	2/23/2000	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
21	3410020-021	38.596	-121.444	NO3		11	MG/L	10/1/1998	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
22	3410020-026	38.625	-121.444	NO3		3.9	MG/L	3/10/1993	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
23	3410020-024	38.625	-121.444	NO3		2	MG/L	11/18/1988	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
24	3410020-024	38.625	-121.444	NO3		5	MG/L	5/15/1997	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
25	3410020-024	38.625	-121.444	NO3		5.9	MG/L	5/2/1996	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
26	3410020-024	38.625	-121.444	NO3		4.8	MG/L	10/1/1998	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
27	3410020-024	38.625	-121.444	NO3		15	MG/L	10/16/2007	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
28	3410020-025	38.625	-121.444	NO3		12.2	MG/L	5/9/1995	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
29	3410020-028	38.625	-121.444	NO3		1.9	MG/L	10/1/1998	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	
30	3410020-030	38.625	-121.444	NO3		6.1	MG/L	10/16/2007	WATER SUPPLY (WE	DHS	SACRAMEI	5	SACRAMEI	

http://geotracker.waterboards.ca.gov/gama/pubmap/linechart.asp?dataset=DHS&global_id=W060340012 - Windows Internet Explorer pro

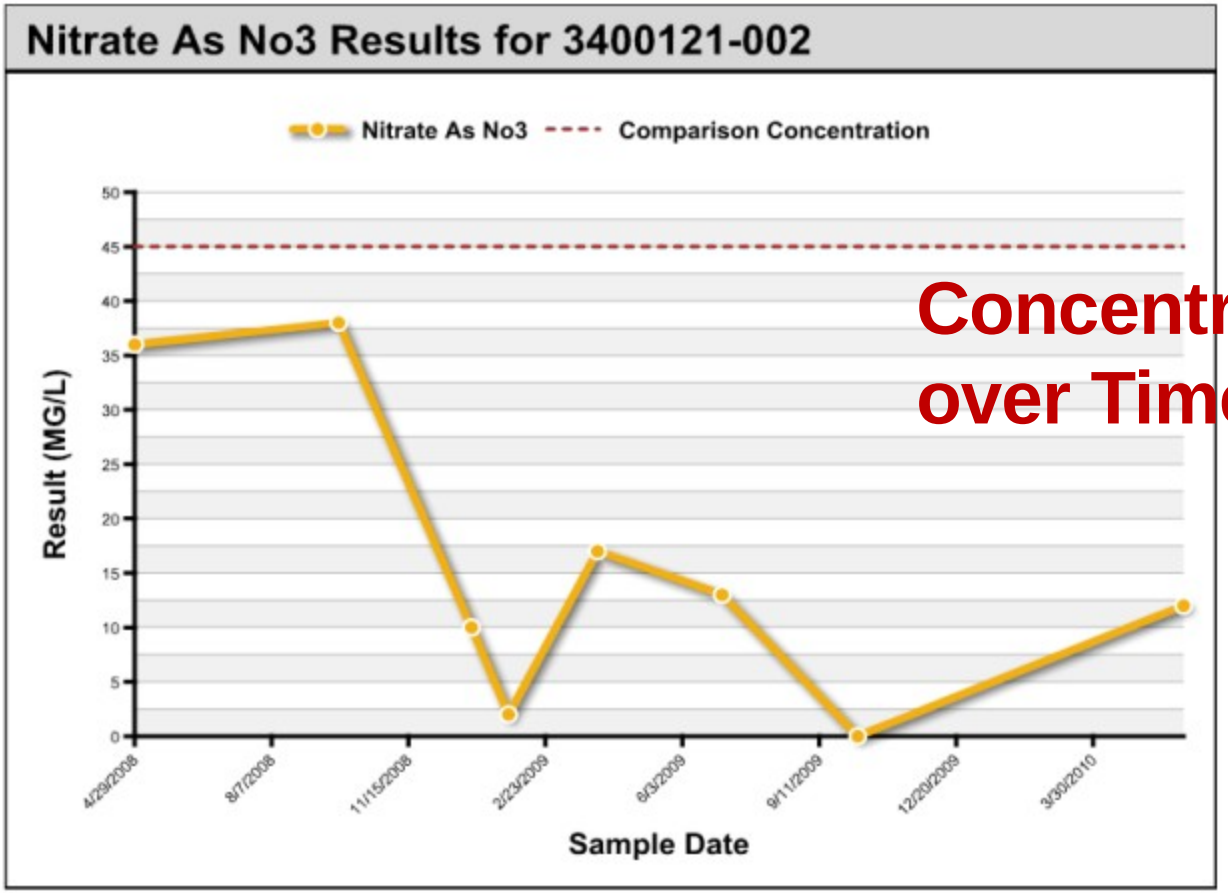
http://geotracker.waterboards.ca.gov/gama/pubmap/linechart.asp?dataset=DHS&global_id=W0603400121&locid=3400121%2D0(

File Edit View Favorites Tools Help

http://geotracker.waterboards.ca.gov/ga...

Page Tools

Nitrate As No3 Results for 3400121-002



Concentrations over Time

VIEW AS PDF

Done

Trusted sites

100%

Other Groundwater Information

Water Boards

GEOTRACKER GAMA

LOCAL INFORMATION

CITY
CARMICHAEL

COUNTY
SACRAMENTO - VIEW WATER REPORTS

GROUNDWATER BASIN
SACRAMENTO VALLEY - NORTH AMERICAN (5-21.64)

VIEW 234 WELL BORING LOGS

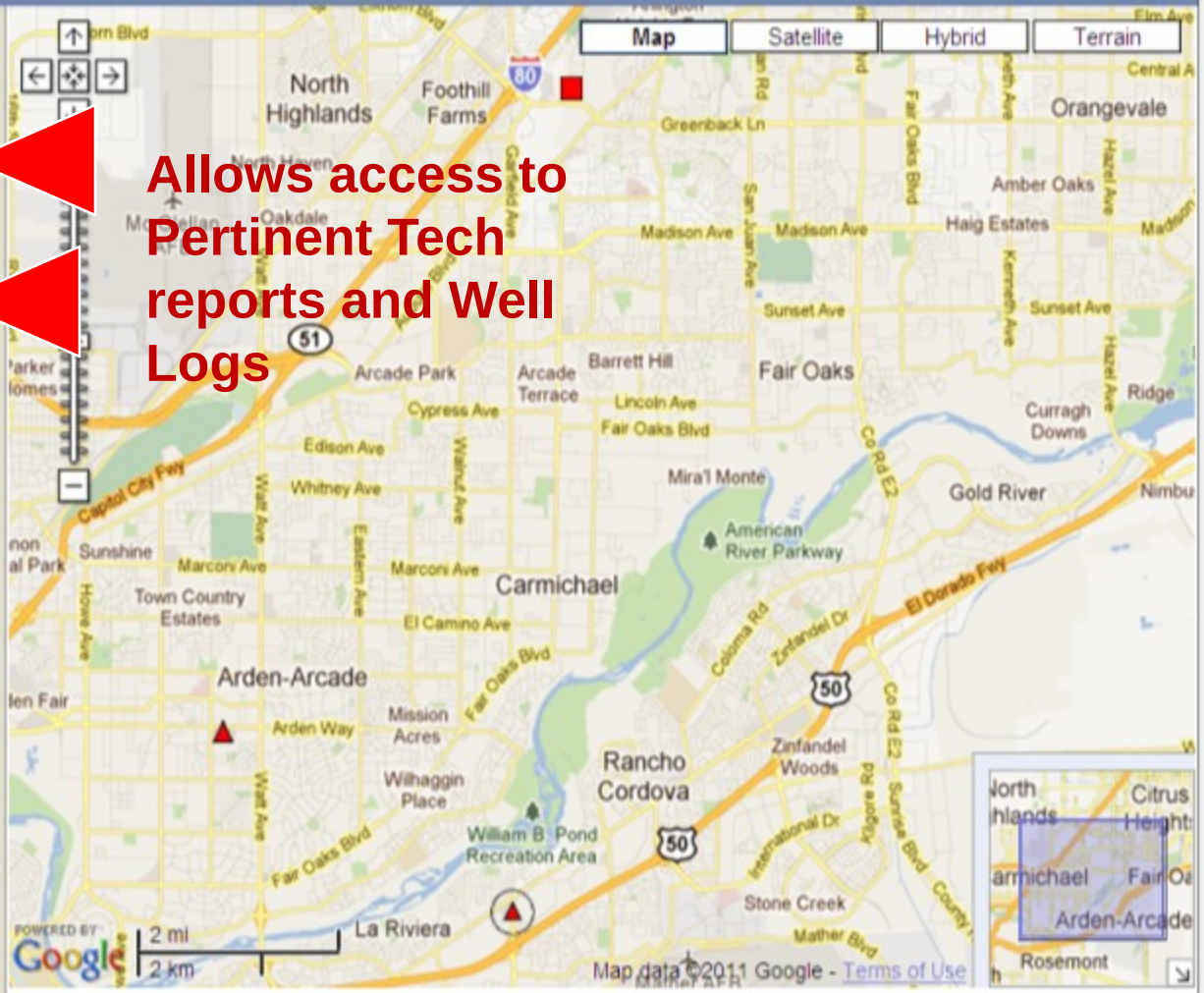
LEGEND

- SUPPLY WELLS - CDPH (within one mile of actual location)
- SUPPLY WELLS - OTHER (within 1/2 mile of actual location)
- MONITORING WELLS - REGULATED SITES (exact locations displayed)
- ICONS WITH A CIRCLE AROUND THEM SIGNIFY A CLUSTER OF WELLS

ADDITIONAL TOOLS

- [ ] DEPTH-TO-WATER
- [ ] DEPTH-TO-WATER CHANGE
- [ ] GROUNDWATER ELEVATION

Allows access to Pertinent Tech reports and Well Logs



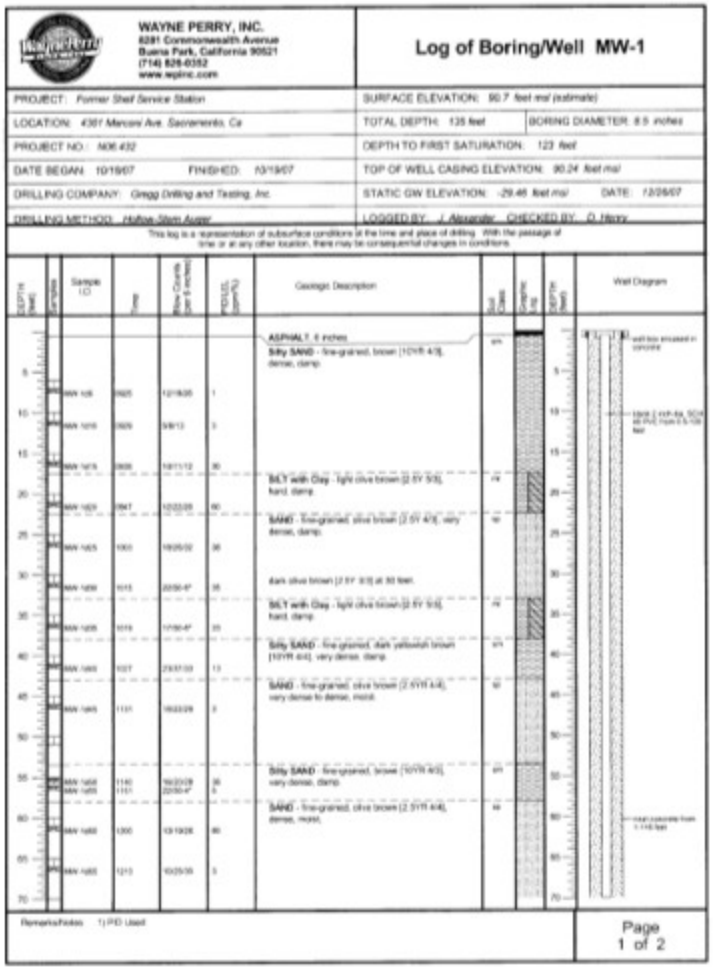
MAP SIZE: 640x480

4 MATCHING WELLS FOR NITRATE AS NO3

DATASETS - ADDITIONAL INFORMATION

MONITORING WELLS:

SUPPLY WELLS:



WAYNE PERRY, INC.
8281 Commonwealth Avenue
Buena Park, California 90621
(714) 826-0352
www.wpinc.com

Log of Boring/Well MW-1

PROJECT: Former Shell Service Station	SURFACE ELEVATION: 90.7 feet msl (estimate)
LOCATION: 4301 Marconi Ave. Sacramento, Ca	TOTAL DEPTH: 135 feet / BORING DIAMETER: 8.5 inches
PROJECT NO.: M06-432	DEPTH TO FIRST SATURATION: 123 feet
DATE BEGAN: 10/19/07 FINISHED: 10/19/07	TOP OF WELL CASING ELEVATION: 90.24 feet msl
DRILLING COMPANY: Gregg Drilling and Testing, Inc.	STATIC GW ELEVATION: -29.46 feet msl DATE: 12/26/07
DRILLING METHOD: Hollow Stem Auger	LOGGED BY: J. Alexander CHECKED BY: D. Henry

This log is a representation of subsurface conditions at the time and place of drilling. With the passage of time or at any other location, there may be consequential changes in conditions.

Geologic Description

ASPHALT - 5 inches

Silty SAND - fine-grained, brown (10YR 4/3), dense, damp

SILT with Clay - light olive brown (2.5Y 5/3), hard, damp

SAND - fine-grained, olive brown (2.5Y 4/3), very dense, damp

dark olive brown (2.5Y 3/3) at 30 feet

SILT with Clay - light olive brown (2.5Y 5/3), hard, damp

Silty SAND - fine-grained, dark yellowish brown (10YR 4/4), very dense, damp

SAND - fine-grained, olive brown (2.5YR 4/4), very dense to dense, moist

Silty SAND - fine-grained, brown (10YR 4/3), very dense, damp

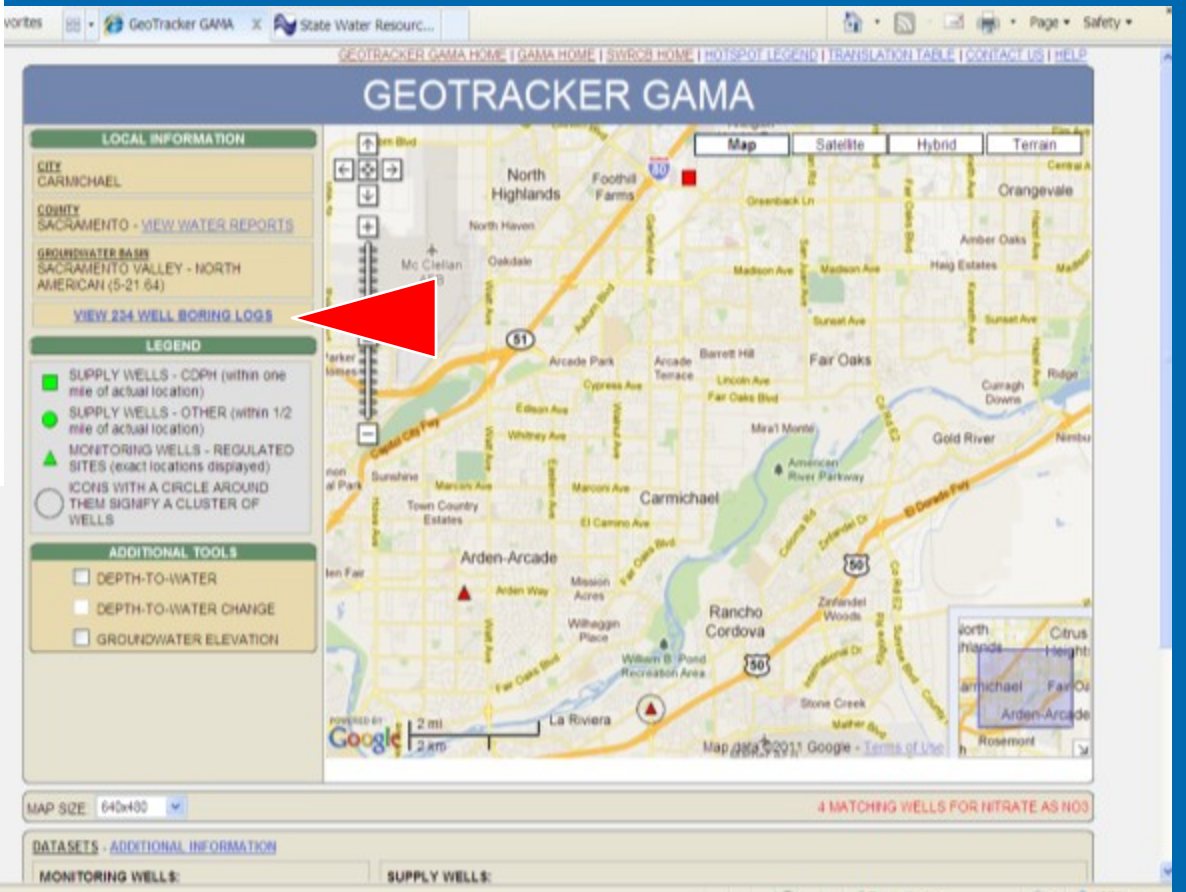
SAND - fine-grained, olive brown (2.5YR 4/4), dense, moist

Remarks/Notes: 1) PID Used

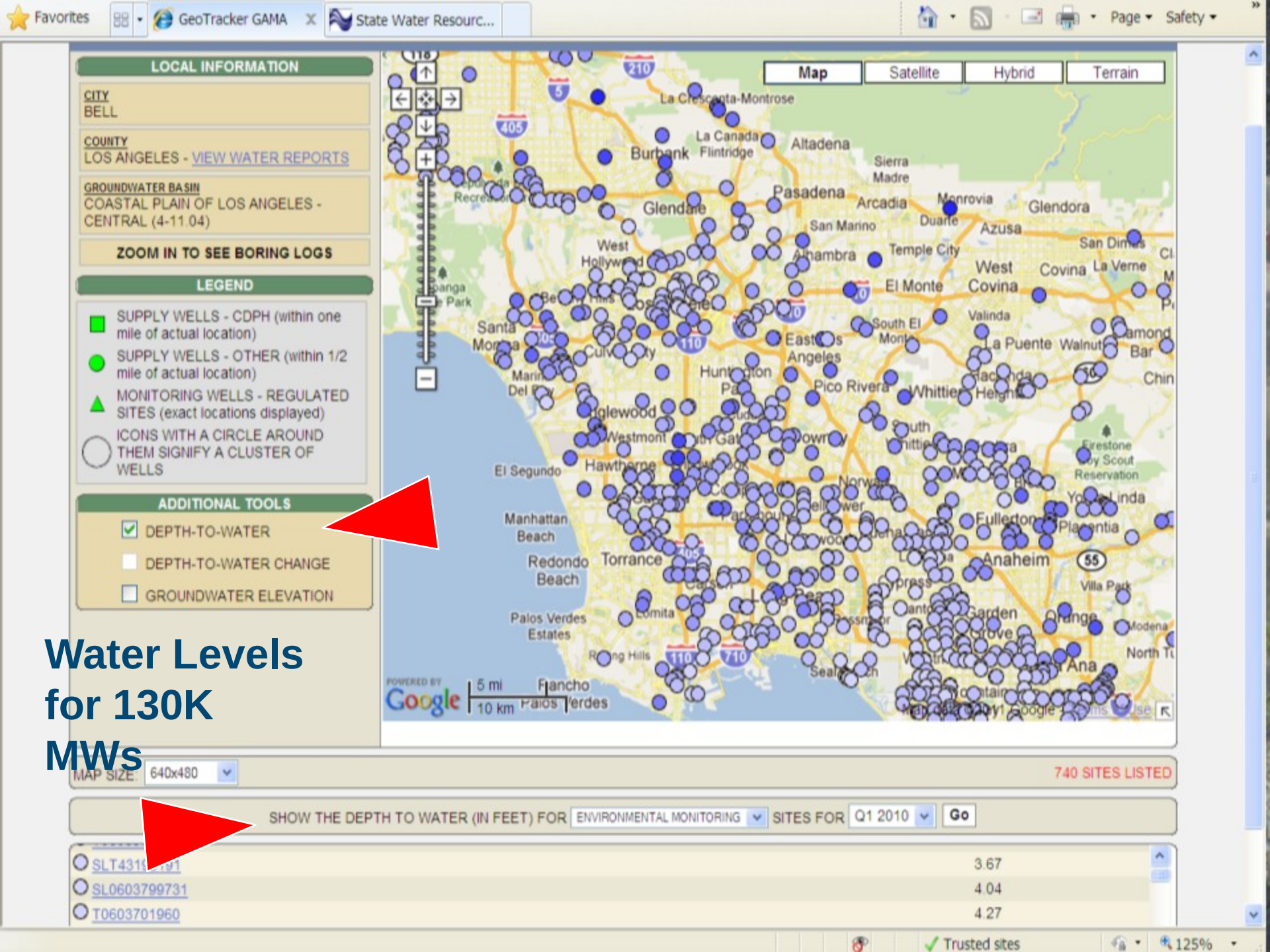
Well Diagram: well box encased in concrete; bentonite seal; #2/12 sand pack from 6.5-135 feet; neat concrete from 1.1-6.5 feet

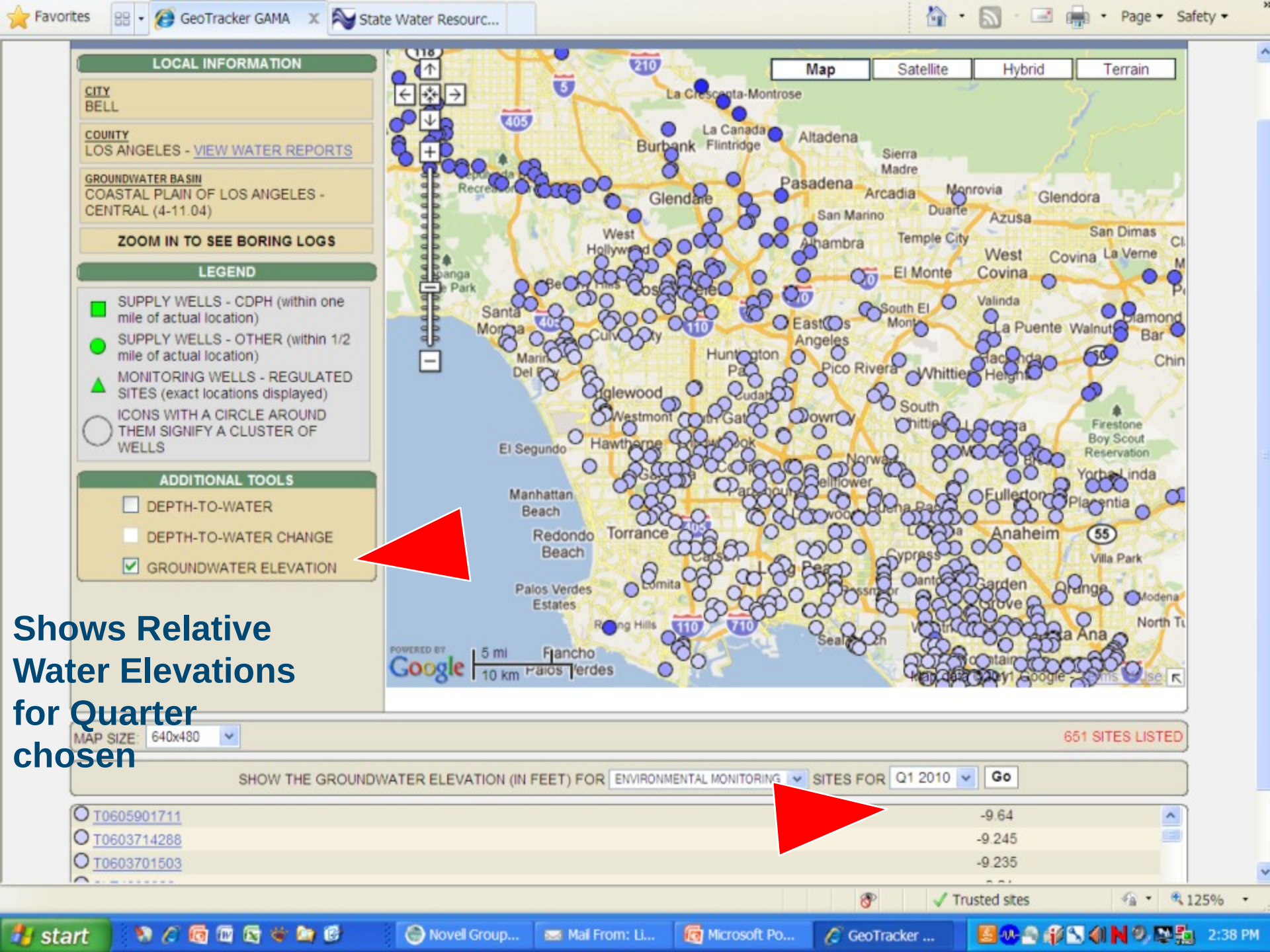
Page 1 of 2

Shows Well Logs for over 130 K Monitoring Wells



Water Boards


Favorites
GeoTracker GAMA
State Water Resourc...
Page
Safety
LOCAL INFORMATION
CITY
BELL
COUNTY
LOS ANGELES - VIEW WATER REPORTS
GROUNDWATER BASIN
COASTAL PLAIN OF LOS ANGELES - CENTRAL (4-11.04)
ZOOM IN TO SEE BORING LOGS
LEGEND
SUPPLY WELLS - CDPH (within one mile of actual location)
SUPPLY WELLS - OTHER (within 1/2 mile of actual location)
MONITORING WELLS - REGULATED SITES (exact locations displayed)
ICONS WITH A CIRCLE AROUND THEM SIGNIFY A CLUSTER OF WELLS
ADDITIONAL TOOLS
DEPTH-TO-WATER
DEPTH-TO-WATER CHANGE
GROUNDWATER ELEVATION
Map
Satellite
Hybrid
Terrain
Water Levels for 130K MWs
MAP SIZE
640x480
740 SITES LISTED
SHOW THE DEPTH TO WATER (IN FEET) FOR
ENVIRONMENTAL MONITORING
SITES FOR
Q1 2010
Go
SL0603799731
3.67
4.04
T0603701960
4.27
Trusted sites
125%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LOS ANGELES - VIEW WATER REPORTS
GROUNDWATER BASIN
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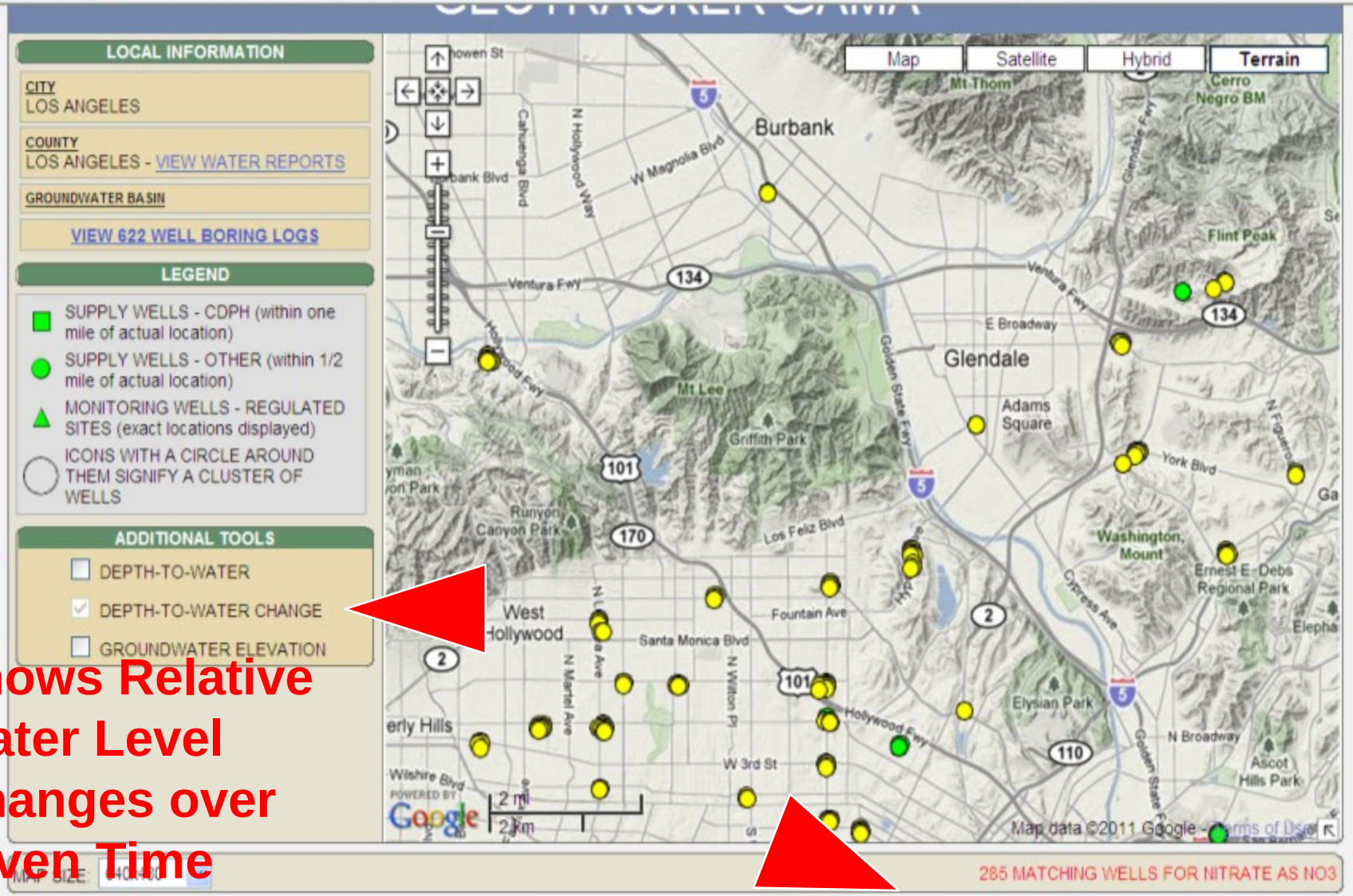
ICONS WITH A CIRCLE AROUND THEM SIGNIFY A CLUSTER OF WELLS
ADDITIONAL TOOLS
DEPTH-TO-WATER
DEPTH-TO-WATER CHANGE
GROUNDWATER ELEVATION
Map
Satellite
Hybrid
Terrain
Shows Relative Water Elevations for Quarter chosen
MAP SIZE 640x480
651 SITES LISTED
SHOW THE GROUNDWATER ELEVATION (IN FEET) FOR ENVIRONMENTAL MONITORING SITES FOR Q1 2010 Go
T0605901711 -9.64
T0603714288 -9.245
T0603701503 -9.235
Trusted sites
125%
start
Novell Group...
Mail From: Li...
Microsoft Po...
GeoTracker ...
2:38 PM

Favorites | GeoTracker GAMA | State Water Resourc... | Page | Safety



Shows Relative Water Level Changes over Given Time

MAP SIZE: 640x480

285 MATCHING WELLS FOR NITRATE AS NO3

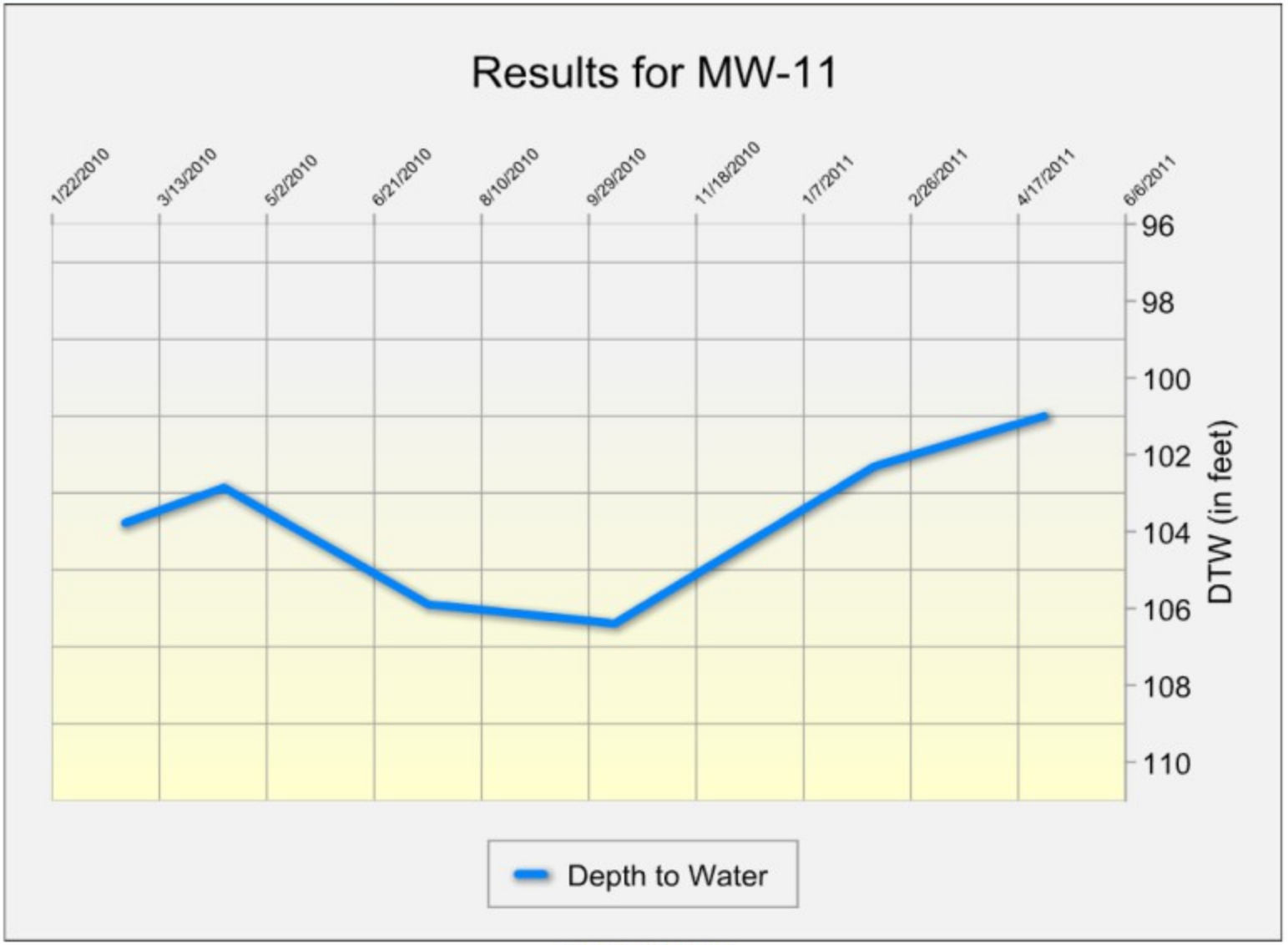
SHOW THE DEPTH-TO-WATER CHANGE (IN FEET) FOR ENVIRONMENTAL MONITORING WELLS BETWEEN Q1 2010 AND Q1 2011 Go

LOCATIONS FOUND

GLOBAL ID	DTW Q1 2010	DTW Q1 2011	DTW CHANGE
T0603793034 - ASW1	100.98	107.31	6.33
T0603793034 - ASW2	99.45	105.7	6.25

Done | Trusted sites | 125%

http://geotracker.waterboards.ca.gov/linechartxy.asp?global_id=T0606700068&locid=MW-11&SHOWDTW= - Windows Internet Explorer pro



VIEW PDF VERSION

Click on a Well and get its Hydrograph (water level history)

Summary

- Legislature wanted groundwater quality data in GeoTracker GAMA
- AB 599 plan suggested linking up with DWR regarding Bulletin 118 and identified data sharing/sources
- GT GAMA - robust information system
  - Ability to integrate multiple disparate datasets – 100M analytical results
  - Also has “non” water quality functionality
    - Well logs, water levels
- Co-locating other groundwater data on Google maps interface of GeoTracker GAMA in the near future.