MWH

BUILDING A BETTER WORLD

March 15, 2013

Ms. Marie Lacey, (SFD-7-2)
United States Environmental Protection Agency (EPA)
Region IX
75 Hawthorne Street
San Francisco, CA 94105

Subject: Valley Wood Preserving Site, Turlock, California
Groundwater Monitoring Program
2012-2013 Annual Groundwater Monitoring Report

Dear Ms. Lacey:

This report summarizes the results of Groundwater Monitoring Program (GMP) activities performed at the Valley Wood Preserving (VWP) site (the Site) in Turlock, California for the period of February 2012 through January 2013. Annual groundwater monitoring and sampling was conducted in January in accordance with the sampling schedule, as modified by the January 11, 2012 letter from EPA to VWP. Table 1 provides well construction details for the remaining wells at the site and Table 2 shows the current sampling schedule for the site.

Based on field notes and results provided to MWH, groundwater monitoring and sampling was conducted by VWP and GeoAnalytical Laboratory personnel in accordance with the Final Remedial Design Part 2 MNA-*Revised Groundwater Monitoring Plan*, dated December 5, 2008, prepared by MWH (RGMP).

As specified in the Final Groundwater Remedial Action Plan and the Revised Record of Decision (ROD) of 2007, this report also provides an evaluation of the status of Monitored Natural Attenuation (MNA) of contaminants in groundwater by reviewing the trends in concentrations of the two constituents of concern chromium and arsenic., Statistical analyses have been conducted on the data to determine the 95% upper confidence level on the mean (95% UCL) of concentrations of chromium and arsenic in each of the monitoring wells to determine if clean up goals have been achieved in accordance with the Final Groundwater Remedial Action Plan and the ROD. Recommendations are included based upon the data collected and analyses performed.

## ACTIVITIES CONDUCTED

The following activities were conducted during the previous annual period (February 2012-January 2013):

- Groundwater elevation monitoring in 10 monitoring wells
- Groundwater sampling and analyses of 9 monitoring wells and 11 domestic wells

A summary of these activities and findings are presented below:

**Groundwater Elevation Monitoring**

Groundwater level monitoring was conducted on January 28, 2013. The depth to water in 10 monitoring wells was measured from the surveyed measuring point for each wellhead (in most cases the top of the well casing). Well GW-12-V, which was originally installed to check for the presence of a 'perched' water system, was dry. Table 3 provides the depth to water information for January 2013 and since the beginning of the Groundwater Pilot Study (GPS), and includes the elevation of the survey points for each well and the water level elevation with respect to Mean Sea Level (MSL).

A potentiometric map was prepared based on the water level elevations (Figure 1). Groundwater flow at the Site is to the southwest, which is consistent with historical measurements.

**Groundwater Sampling and Analysis**

Groundwater sampling activities were conducted on January 28, 2013
Groundwater samples were collected from 9 monitoring wells and 11 domestic wells and were analyzed in the laboratory for total dissolved chromium, hexavalent chromium and arsenic. Table 4 provides the results of the analyses conducted during the January 2013 sampling event. Historical data since January 1998 are also included. Attachment A includes the laboratory analytical reports for samples collected during the January 2013 event.

Graphs illustrating the historical concentrations of arsenic, hexavalent and total dissolved chromium are provided in Attachment B. Trend lines are provided for the data for the time period following the end of active remedial actions to assess the status of MNA.

Historical and current data collected for pH, electrical conductivity, temperature, and oxidation / reduction potential (ORP) in the field at the conclusion of purging is provided in Table 5. The values shown reflect readings made after the parameters had reached stable conditions during purging. The data shows that reducing conditions, which formerly existed throughout the plume due to the injection of reductant solution, have been eliminated by the influx of oxygen, either through direct transfer or the influx of oxygenated water. This is the case even in the wells on the former plant site, where the area around the wells was treated with ViroBind™ to achieve arsenic fixation as further discussed below.

Figure 2 illustrates the concentrations of total dissolved chromium in groundwater detected during the January 2013 sampling event. Total dissolved chromium was detected in five of the 20 wells sampled (GW-5, GW-15B, GW-15C, GW-39D and I-37) at a concentration at or above the chromium clean-up goal of 0.05 mg/L. One well, (GW-15A) reported a concentration above the detection limit of 0.010 mg/L but below the clean-up goal. The remaining 13 wells sampled did not contain total dissolved chromium above the detection limit.

Using EPA Method 7199 to analyze samples for hexavalent chromium, all but two of the wells (GW-1 and GW-24) yielded samples containing detectable concentrations above the lower detection limit of 0.0005 mg/L. Both of these wells are located in the prior source area, which was treated with Activated Red Mud (ARM). Low concentrations of hexavalent chromium in the range of 0.002 to 0.004 mg/L were detected in many of the wells that are outside the former hexavalent chromium plume area that was associated with Site operations. This includes well VWP-4, which is screened in a deep, oxidized aquifer underlying a reduced aquitard and located up-gradient of the former VWP plant site. The various private domestic wells are also mostly screened in the deep, oxidized aquifer located below the reduced aquitard. Consistent with the results for total dissolved chromium, only five wells (GW-5, GW-15B, GW-15C, GW-39D and I-37) yielded samples which contained hexavalent chromium in excess of the 0.05 mg/L. Arsenic was detected in one shallow well (GW-1) above the clean-up goal of 0.010 mg/L.

Previous data demonstrated that arsenic contamination of groundwater from the former VWP operations did not migrate from the former plant area to down-gradient wells. Rather, arsenic was attenuated as groundwater moved from areas of neutral or reducing conditions into areas with oxidizing environments. One deep well, (GW-39D), exhibited an arsenic concentration slightly above 0.010 mg/L, but in the range of the naturally-occurring background level that was established in the EPA-approved *Revised Report of Lithological Implications on Background Concentrations of Arsenic in Groundwater* (MWH, 2006) for this deeper groundwater zone well due to natural reducing conditions present in the reduced aquitard where this well is screened. Four wells (Atkinson-1, Elliot-2, Encomio-2, and GW-15B) exhibited arsenic concentrations slightly above the reporting limit of 0.005 mg/L but below the clean-up goal of 0.010 mg/L. The remaining 13 wells sampled did not exhibit arsenic concentrations above the detection limit of 0.005 mg/L.

As noted above, arsenic, hexavalent chromium and total dissolved chromium were detected in well GW-39D at concentrations exceeding ROD specified cleanup goals. However, this has been the case for years, as a result of two factors:

- The original construction of GW-39D, drilled at the direction of EPA Region IX by EPA contractor, Bechtel, was improperly screened across both the shallow zone and reduced aquitard. The detected arsenic concentrations are now consistent with background concentrations in the reduced aquitard, following rehabilitation efforts by VWP.
- Vertical migration of hexavalent chromium from overlying sediments through a casing break in the formerly faulty well was evident. This break and the improper screened interval was repaired in December 2003 by VWP, as documented in the report “Report on Rehabilitation of Wells VWP-1 and GW-39D (Bechtel)”, MWH February 2004. Efforts by VWP to pump out the contaminated water and reduce concentrations of chromium were of limited success due to the low permeability and resultant yield of the aquitard.

QA/QC samples were collected according to the RGMP. Field blanks and rinsate blanks were

submitted on January 28, 2013. Field blank and rinsate samples were reported as non-detect for all analyses. Duplicate #1 was obtained using well GW-5 on January 28, 2013. The primary sample and duplicate samples reported a total dissolved chromium concentration of 0.056 and 0.055 mg/L, respectively.

## PROBLEMS ENCOUNTERED DURING THE PREVIOUS ANNUAL PERIOD (February 2012 through January 2013)

No problems were noted during the reporting period.

## 2012-2013 ACTIVITIES SUMMARY

Monitoring and sampling activities occurred at the site January 28, 2013. Monitored attenuation of residual constituents of concern and constituents of interest continues to be the focus of the groundwater monitoring program. The following section provides the annual statistical evaluation of groundwater data collected following completion of active remedial actions.

## STATISTICAL ANALYSES AND MNA EVALUATION

In accordance with the Final Groundwater Remedial Action Plan, a statistical evaluation of the status of MNA was conducted for each monitoring well to determine if cleanup levels are being achieved for the two constituents of concern, dissolved chromium and arsenic, and also each of the 11 domestic wells being monitored in areas surrounding the Site. The statistical analyses were performed using US EPA ProUCL (Version 4.1) statistical modeling software. Attachment C provides a detailed description of the methodology and provides the output from the analyses. Table C1 in Attachment C summarizes the results of 95% Upper Confidence Limit (UCL) of the mean calculations for each well. In several cases, particularly for the domestic wells where the number of detections of constituents of concern is low or zero, a 95% UCL calculation was not possible. However, the individual results and data trend graphs can be used to demonstrate that these wells meet ROD objectives (e.g. monitoring wells) or remain unaffected by former Site operations (e.g. domestic wells).

Based upon the statistical approach, three wells, GW-15A, GW-15C and GW-39D had a 95%UCL above the cleanup level of 0.05 mg/L for constituent of concern dissolved chromium, and only one well, GW-1 had a 95%UCL above the cleanup level of 0.01 mg/L for constituent of concern arsenic. The 95%UCL for arsenic also exceeded 0.01 mg/L for GW-39D, but this well is screened in the reduced aquitard where background concentrations of arsenic are naturally higher; therefore the ROD established cleanup level for arsenic is not applicable to this well. (*Revised Report of Lithological Implications on Background Concentrations of Arsenic in Groundwater* (MWH, 2006)). None of the domestic monitoring wells indicated results above the respective arsenic and dissolved chromium cleanup levels. Other than the wells indicated above, all other wells have met the ROD specified cleanup levels based on the approved statistical analyses of the data to evaluate the 95%UCL for constituents of concern chromium and arsenic.

## TREND ANALYSES

In addition to the statistical analyses discussed above, a review of the data trends for monitoring wells shows that all wells demonstrate stable or declining trends for constituents of concern arsenic and chromium except for the following wells:

- GW-1 demonstrated an increasing concentration trend for arsenic during the post-active remedial action period between 2009-2010. However, data collected throughout 2011 and 2012 showed a more stable trend, with the most recent concentration in January 2013 showing a sharp decline to 0.027 mg/L, now below the MCL.
- GW-15A, -15B, -15C demonstrated increasing trend lines for dissolved chromium; however, results for January 2013 all indicate declining concentrations with GW-15A now below the MCL.
- GW-5 demonstrated an increase in dissolved chromium to slightly above the MCL at a concentration of 0.056 mg/L in January 2013.
- I-37 still demonstrates an increasing trend for dissolved chromium; however, the most recent results show a lesser increase than had been exhibited in recent years.

## RECOMMENDATIONS

### *Recommendations Based on Data through 2013*

Past reports have recommended the abandonment of wells P-5 and GW-39D, and are repeated in this document. In addition, it is recommended that vadose-zone well GW-12V be abandoned, since past monitoring has demonstrated the absence of a ‘perched’ water system in the area. This well, in the former source area, serves no further purpose.

## PLANNED ACTIVITIES

- Annual groundwater monitoring and sampling activities will be performed in January 2014 in accordance with the RGMP and the EPA letter dated December 11, 2012.

- The next groundwater monitoring progress report will be submitted on March 15, 2014.

This concludes the Annual 2012-2013 Groundwater Monitoring Report for the VWP groundwater monitoring program. If you have any questions or comments, please call either Jim Rouse at (303) 526-5493, Bob Schmidt of VWP at (209) 632-9931 or me at (707) 227-0407.

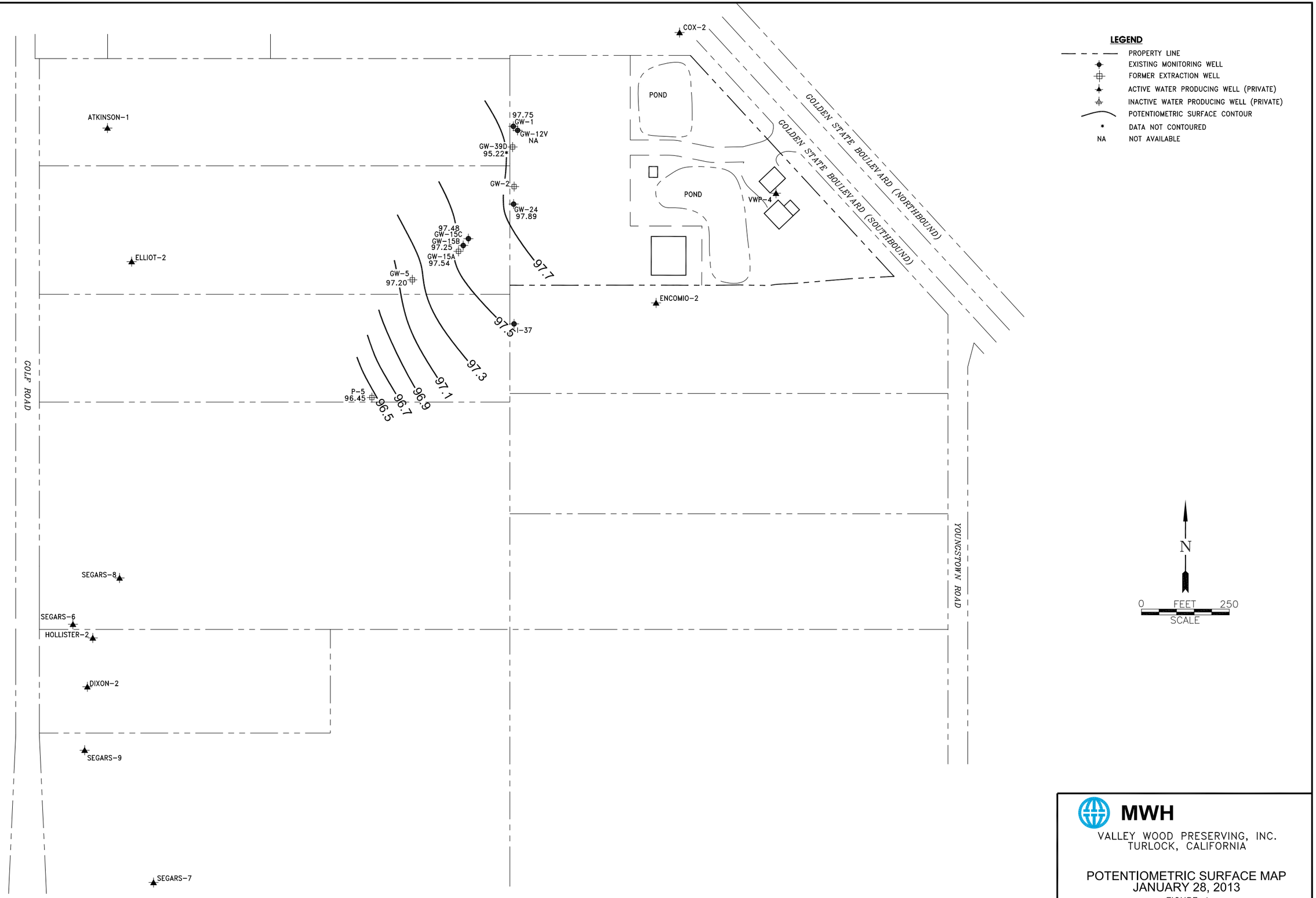
Sincerely,
**MWH**

Richard M. Thomasser, P. G.
Principal Hydrogeologist

cc: Mr. McKinley Lewis, DTSC
Mr. Gerald Djuth, RWQCB Central Valley Region
Ms. Nicole Damin, Stanislaus County Department of Environmental Resource
Jim Rouse, Acuity Environmental Solutions
Valley Wood Preserving

## FIGURES

1. Potentiometric Map
2. Total Dissolved Chromium in Groundwater
3. Arsenic in Groundwater

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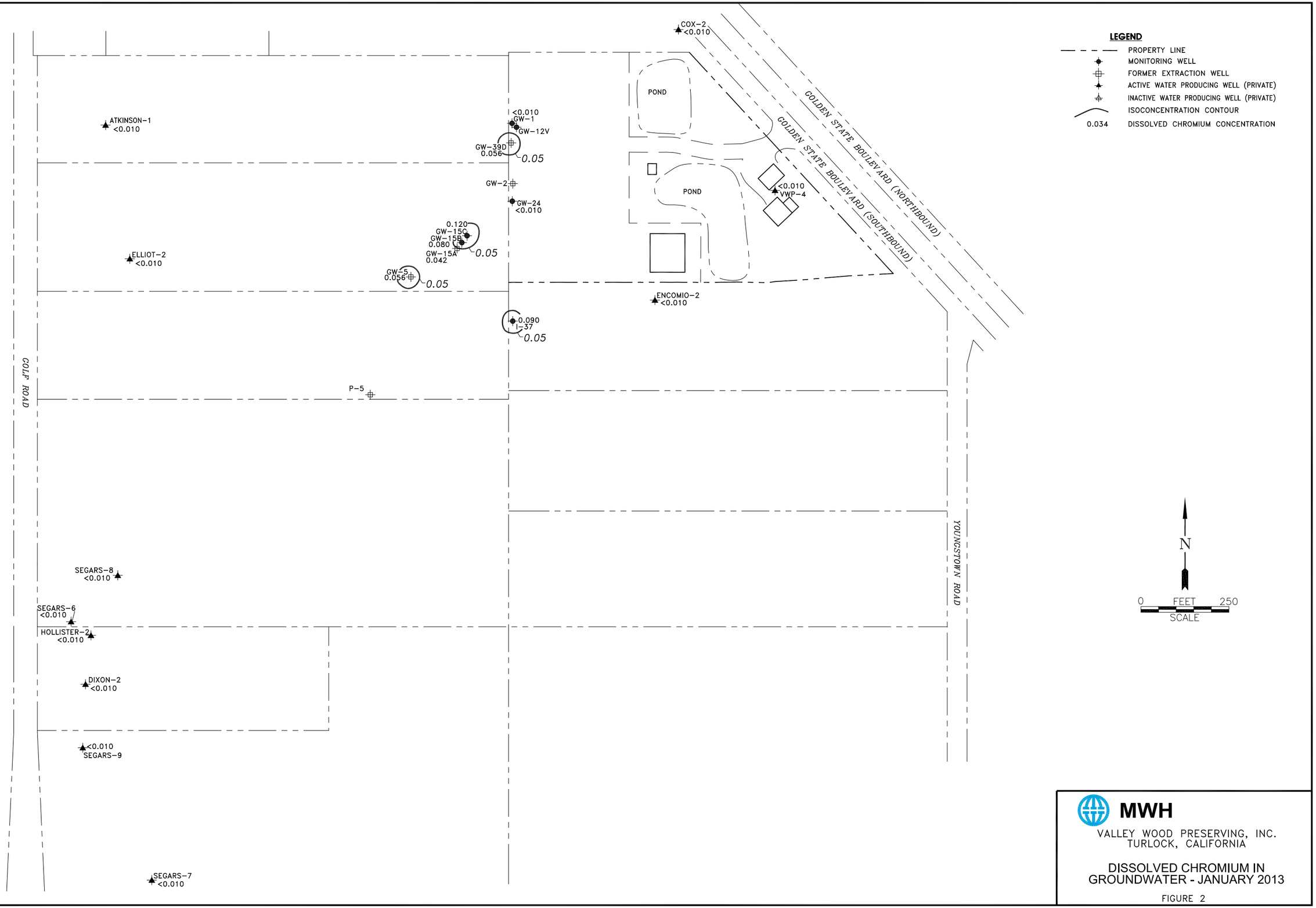
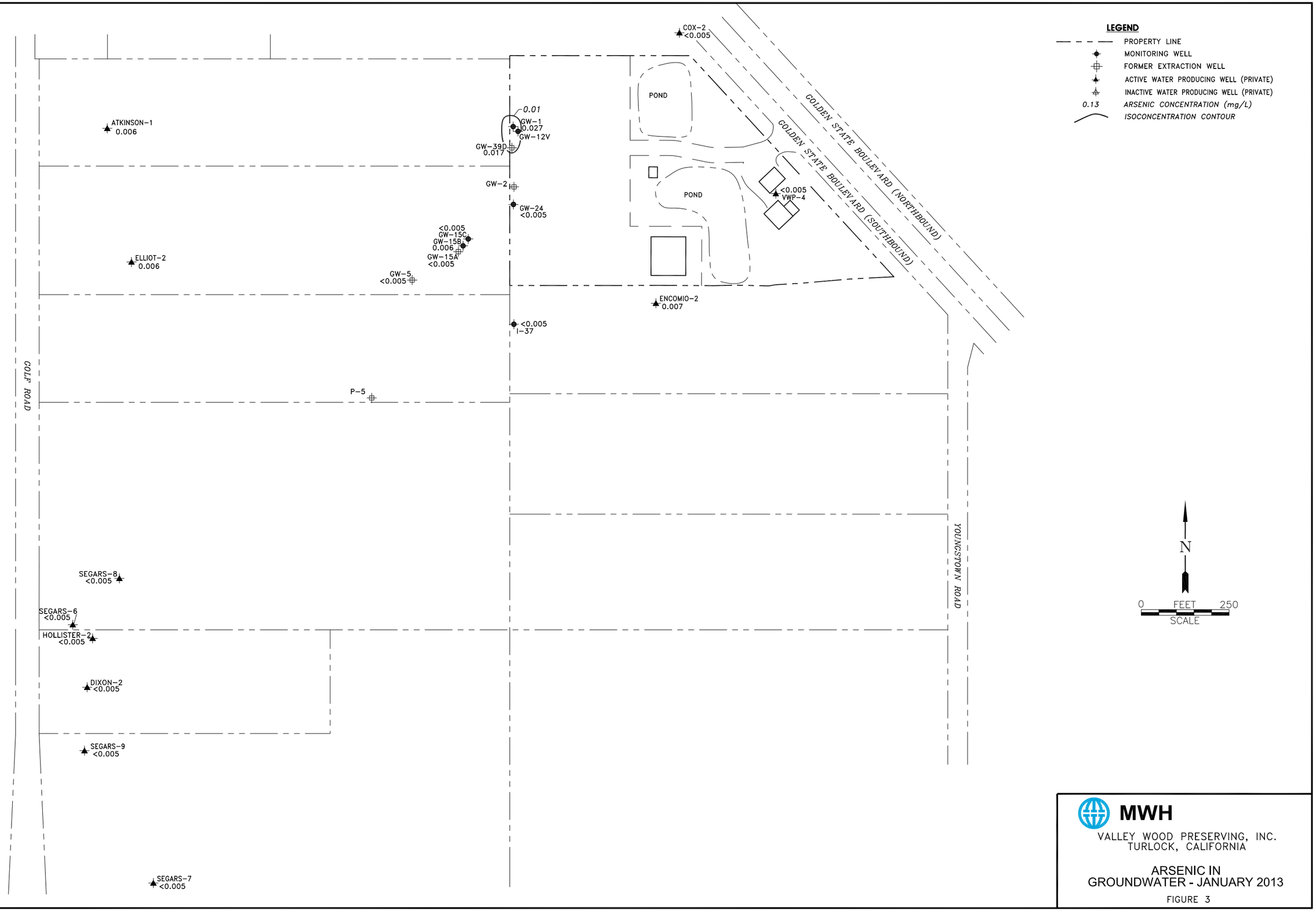
VALLEY WOOD PRESERVING, INC.
TURLOCK, CALIFORNIA

POTENTIOMETRIC SURFACE MAP
JANUARY 28, 2013

FIGURE 1

FILE: CADMLUEBKE\VALLEY WOOD\PSM 1 13


LEGEND
PROPERTY LINE
MONITORING WELL
FORMER EXTRACTION WELL
ACTIVE WATER PRODUCING WELL (PRIVATE)
INACTIVE WATER PRODUCING WELL (PRIVATE)
ISOCONCENTRATION CONTOUR
0.034 DISSOLVED CHROMIUM CONCENTRATION
COLT ROAD
YOUNGSTOWN ROAD
GOLDEN STATE BOULEVARD (NORTHBOUND)
GOLDEN STATE BOULEVARD (SOUTHBOUND)
POND
POND
ATKINSON-1 <0.010
ELLIOT-2 <0.010
COX-2 <0.010
<0.010 GW-1
GW-12V
GW-39D 0.056
0.05
GW-2
GW-24 <0.010
0.120 GW-15C
GW-15B 0.080
GW-15A 0.042
0.05
GW-5 0.056
0.05
0.090 37
0.05
P-5
<0.010 VWP-4
ENCOMIO-2 <0.010
SEGARS-8 <0.010
SEGARS-6 <0.010
HOLLISTER-2 <0.010
DIXON-2 <0.010
<0.010 SEGARS-9
SEGARS-7 <0.010
N
0 FEET 250
SCALE
MWH
VALLEY WOOD PRESERVING, INC.
TURLOCK, CALIFORNIA
DISSOLVED CHROMIUM IN GROUNDWATER - JANUARY 2013
FIGURE 2
FILE: CADMLUEBKE\VALLEY WOOD\HEXCR JANUARY 2013

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VALLEY WOOD PRESERVING, INC.
TURLOCK, CALIFORNIA

ARSENIC IN
GROUNDWATER - JANUARY 2013

FIGURE 3

## TABLES

1. Well Construction Summary
2. Sampling Schedule
3. Groundwater Level Monitoring Data (January 1998 through January 2013)
4. Total Dissolved Chromium, Hexavalent Chromium, Sulfate, Manganese and Arsenic Concentrations, (January 1998 through January 2013)
5. Groundwater Parameter Measurements Summary
6. Pre and Post Virobind Injection Analyses

**TABLE 1**

**Valley Wood Preserving**
**Well Construction Summary**

| Well ID | Drilling Log | Date Drilled | Drilled By | Total Depth Drilled (Feet) | Perforated Interval (Feet) | Casing Diameter (inches) | Casing Elevation (Feet) |
|---|---|---|---|---|---|---|---|
| GW-1 | No | Aug-79 | NA | NA | 10 to 20 | 6 | 106.98 |
| GW-2 | No | Feb-80 | NA | NA | 10 to 63 | 6 | 107.73 |
| GW-5 | No | Aug-80 | NA | NA | 15 to 60 | 6 | 105.2 |
| GW-12V | Yes | Mar-11 | Precision Sampling | 7.5 | 5.5 to 7.5 | 2 | -- |
| GW-15A | No | Mar-85 | NA | NA | 29.4 to 39.4 | 4 | 104.61 |
| GW-15B | No | Mar-85 | NA | NA | 47.2 to 60 | 4 | 104.59 |
| GW-15C | No | Mar-85 | NA | NA | 9.3 to 19.3 | 4 | 104.84 |
| GW-24 | Yes | May-88 | Spectrum Drilling | 65 | 5.8 to 16.5 | 4 | 107.73 |
| GW-39D | Yes | Apr-93 | Tonto Drilling (Bechtel) | 136 | 101.5 to 116.5 | 4 and 2 | NA |
| P-5 | Yes | Jan-99 | West Hazmat | 60 | 10 to 55 | 6 | 107.7 |
| I-37 | Yes | May-99 | Spectrum Drilling | 59.5 | 19 to 59 | 4 | NA |
| Atkinson-1 | NA | NA | NA | NA | NA | NA | NA |
| Cox-2 | NA | NA | NA | NA | NA | NA | NA |
| Dixon-2 | Yes | Aug-90 | Henning Brothers | 305 | NA | 6 | NA |
| Elliot-2 | No | Aug-87 | NA | 238 | 210 to 238 | 6 | NA |
| Encomio-2 | NA | Jun-81 | NA | 300 | 260 to 300 | 8 | NA |
| Hollister-2 | Yes | Feb-97 | Calwater Drilling | 244 | 200 to 220 | 6 | NA |
| Segars-6 | Yes | Dec-89 | Henning Brothers | 300 | 265 to 285 | 6 | NA |
| Segars-7 | Yes | Feb-90 | Henning Brothers | 275 | 253 to 268 | 6 | NA |
| Segars-8 | Yes | Dec-95 | Calwater Drilling | 304 | 220 to 240 | 6 | NA |
| Segars-9 | Yes | Jul-97 | Calwater Drilling | 280 | 245 to 265 | 6 | NA |
| VWP-4 | Yes | Aug-97 | Calwater Drilling | 304 | 256 to 276 | 6 | NA |

**TABLE 2**

**Groundwater Monitoring and Sampling Schedule**

Valley Wood Preserving Site
Turlock, CA.

| Well ID | Well Type | Analytes | Sampling Frequency |
|---|---|---|---|
| ATKINSON-1 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| COX-2 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| DIXON-2 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| ELLIOT-2 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| ENCOMIO-2 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| SEGARS-6 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| SEGARS-7 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| SEGARS-8 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| SEGARS-9 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| VWP-4 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| HOLLISTER-2 | Domestic | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| GW-1 | Shallow Monitoring | Total Dissolved Chromium, Hexavalent Chromium, Arsenic, Dissolved Iron, Chloride, TDS | Annually |
| GW-12V | Shallow Monitoring | Total Dissolved Chromium, Hexavalent Chromium, Arsenic, Dissolved Iron, Chloride, TDS | Annually |
| GW-15A | Shallow Monitoring | Total Dissolved Chromium, Hexavalent Chromium, Arsenic, Dissolved Iron, Chloride, TDS | Annually |
| GW-15B | Shallow Monitoring | Total Dissolved Chromium, Hexavalent Chromium, Arsenic, Dissolved Iron, Chloride, TDS | Annually |
| GW-15C | Shallow Monitoring | Total Dissolved Chromium, Hexavalent Chromium, Arsenic, Dissolved Iron, Chloride, TDS | Annually |
| GW-24 | Shallow Monitoring | Total Dissolved Chromium, Hexavalent Chromium, Arsenic, Dissolved Iron, Chloride, TDS | Annually |
| I-37 | Shallow Monitoring | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| GW-5 | Former Shallow Extraction | Total Dissolved Chromium, Hexavalent Chromium, Arsenic | Annually |
| P-5 | Former Shallow Extraction | Water level measurements only, no analytical | Annually |
| GW-39D | Reduced Aquitard Well | Total Dissolved Chromium, Hexavalent Chromium, Arsenic, Dissolved Iron, Chloride, TDS | Annually |

| **Sampling Event** | **Report Due** |
|---|---|
| Annual -January | March 15th |

* Supplemental sampling to be performed as described in Section 2.3.1 of the Revised Groundwater Monitoring Plan

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-1 | 1/19/1998 | 106.98 | 7.30 | 99.68 |
| GW-1 | 1/18/1999 | 106.98 | 7.67 | 99.31 |
| GW-1 | 2/16/1999 | 106.98 | 7.28 | 99.70 |
| GW-1 | 3/16/1999 | 106.98 | 6.95 | 100.03 |
| GW-1 | 4/20/1999 | 106.98 | 6.20 | 100.78 |
| GW-1 | 5/18/1999 | 106.89 | 6.43 | 100.46 |
| GW-1 | 6/22/1999 | 106.98 | 6.92 | 100.06 |
| GW-1 | 7/19/1999 | 106.98 | 7.30 | 99.68 |
| GW-1 | 8/17/1999 | 106.98 | 7.23 | 99.75 |
| GW-1 | 10/18/1999 | 106.98 | 7.69 | 99.29 |
| GW-1 | 1/14/2000 | 106.98 | 9.45 | 97.53 |
| GW-1 | 2/11/2000 | 106.98 | 8.58 | 98.40 |
| GW-1 | 3/13/2000 | 106.98 | 8.00 | 98.98 |
| GW-1 | 4/19/2000 | 106.98 | 8.00 | 98.98 |
| GW-1 | 6/19/2000 | 106.98 | 7.69 | 99.29 |
| GW-1 | 7/17/2000 | 106.98 | 7.00 | 99.98 |
| GW-1 | 8/14/2000 | 106.98 | 7.82 | 99.16 |
| GW-1 | 9/18/2000 | 106.98 | 8.33 | 98.65 |
| GW-1 | 10/16/2000 | 106.98 | 8.48 | 98.50 |
| GW-1 | 11/13/2000 | 106.98 | 8.04 | 98.94 |
| GW-1 | 12/11/2000 | 106.98 | 8.28 | 98.70 |
| GW-1 | 1/12/2001 | 106.98 | 8.23 | 98.75 |
| GW-1 | 2/12/2001 | 106.98 | 8.22 | 98.76 |
| GW-1 | 3/12/2001 | 106.98 | 7.44 | 99.54 |
| GW-1 | 4/16/2001 | 106.98 | 7.48 | 99.50 |
| GW-1 | 5/14/2001 | 106.98 | 7.15 | 99.83 |
| GW-1 | 7/16/2001 | 106.98 | 7.36 | 99.62 |
| GW-1 | 8/13/2001 | 106.98 | 7.66 | 99.32 |
| GW-1 | 9/17/2001 | 106.98 | 7.86 | 99.12 |
| GW-1 | 10/15/2001 | 106.98 | 4.53 | 102.45 |
| GW-1 | 1/14/2002 | 106.98 | 6.89 | 100.09 |
| GW-1 | 4/15/2002 | 106.98 | 8.21 | 98.77 |
| GW-1 | 7/8/2002 | 106.98 | 8.94 | 98.04 |
| GW-1 | 11/4/2002 | 106.98 | 7.67 | 99.31 |
| GW-1 | 2/10/2003 | 106.98 | 7.81 | 99.17 |
| GW-1 | 5/5/2003 | 106.98 | 8.60 | 98.38 |
| GW-1 | 8/11/2003 | 106.98 | 10.95 | 96.03 |
| GW-1 | 11/14/2003 | 106.98 | 9.62 | 97.36 |
| GW-1 | 2/9/2004 | 106.98 | 8.76 | 98.22 |
| GW-1 | 5/3/2004 | 106.98 | 7.21 | 99.77 |
| GW-1 | 7/19/2004 | 106.98 | 7.39 | 99.59 |
| GW-1 | 11/8/2004 | 106.98 | 8.21 | 98.77 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-1 | 1/31/2005 | 106.98 | 6.70 | 100.28 |
| GW-1 | 5/16/2005 | 106.98 | 6.70 | 100.28 |
| GW-1 | 8/16/2005 | 106.98 | 7.95 | 99.03 |
| GW-1 | 11/16/2005 | 106.98 | 8.47 | 98.51 |
| GW-1 | 2/14/2006 | 106.98 | 8.01 | 98.97 |
| GW-1 | 5/8/2006 | 106.98 | 7.71 | 99.27 |
| GW-1 | 8/7/2006 | 106.98 | 8.22 | 98.76 |
| GW-1 | 11/6/2006 | 106.98 | 8.91 | 98.07 |
| GW-1 | 1/25/2007 | 106.98 | 8.44 | 98.54 |
| GW-1 | 5/14/2007 | 106.98 | 7.90 | 99.08 |
| GW-1 | 8/3/2007 | 106.98 | 7.59 | 99.39 |
| GW-1 | 11/5/2007 | 106.98 | 8.02 | 98.96 |
| GW-1 | 1/28/2008 | 106.98 | 7.67 | 99.31 |
| GW-1 | 5/5/2008 | 106.98 | 7.43 | 99.55 |
| GW-1 | 8/4/2008 | 106.98 | 7.82 | 99.16 |
| GW-1 | 11/10/2008 | 106.98 | 8.79 | 98.19 |
| GW-1 | 2/13/2009 | 106.98 | 9.22 | 97.76 |
| GW-1 | 5/14/2009 | 106.98 | 9.65 | 97.33 |
| GW-1 | 8/5/2009 | 106.98 | 10.11 | 96.87 |
| GW-1 | 10/29/2009 | 106.98 | 10.10 | 96.88 |
| GW-1 | 1/25/2010 | 106.98 | 10.30 | 96.68 |
| GW-1 | 5/12/2010 | 106.98 | 9.41 | 97.57 |
| GW-1 | 8/2/2010 | 106.98 | 8.80 | 98.18 |
| GW-1 | 1/24/2011 | 106.98 | 8.65 | 98.33 |
| GW-1 | 8/1/2011 | 106.98 | 6.70 | 100.28 |
| GW-1 | 1/30/2012 | 106.98 | 9.22 | 97.76 |
| GW-1 | 1/28/2013 | 106.98 | 9.23 | 97.75 |
| | | | | |
| GW-2 | 2/25/1998 | 107.73 | 6.12 | 101.61 |
| GW-2 | 3/18/1998 | 107.73 | 9.10 | 98.63 |
| GW-2 | 4/13/1998 | 107.73 | 5.30 | 102.43 |
| GW-2 | 5/11/1998 | 107.73 | 5.85 | 101.88 |
| GW-2 | 7/13/1998 | 107.73 | 7.65 | 100.08 |
| GW-2 | 8/17/1998 | 107.73 | 13.20 | 94.53 |
| GW-2 | 9/14/1998 | 107.73 | 12.81 | 94.92 |
| GW-2 | 10/12/1998 | 107.73 | 13.60 | 94.13 |
| GW-2 | 11/9/1998 | 107.73 | 9.95 | 97.78 |
| GW-2 | 12/7/1998 | 107.73 | 13.20 | 94.53 |
| GW-2 | 1/18/1999 | 107.73 | 13.36 | 94.37 |
| GW-2 | 2/16/1999 | 107.73 | 13.02 | 94.71 |
| GW-2 | 3/16/1999 | 107.73 | 11.56 | 96.17 |
| GW-2 | 4/20/1999 | 107.73 | 11.73 | 96.00 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-2 | 5/18/1999 | 107.73 | 9.80 | 97.93 |
| GW-2 | 6/22/1999 | 107.73 | 7.98 | 99.75 |
| GW-2 | 7/19/1999 | 107.73 | 9.12 | 98.61 |
| GW-2 | 8/17/1999 | 107.73 | 0.00 | 107.73 |
| GW-2 | 9/13/1999 | 107.73 | 11.85 | 95.88 |
| GW-2 | 10/18/1999 | 107.73 | 11.79 | 95.94 |
| GW-2 | 11/15/1999 | 107.73 | 10.32 | 97.41 |
| GW-2 | 12/13/1999 | 107.73 | 13.10 | 94.63 |
| GW-2 | 1/14/2000 | 107.73 | 16.81 | 90.92 |
| GW-2 | 2/11/2000 | 107.73 | 15.66 | 92.07 |
| GW-2 | 3/13/2000 | 107.73 | 9.81 | 97.92 |
| GW-2 | 4/19/2000 | 107.73 | 14.13 | 93.60 |
| GW-2 | 5/22/2000 | 107.73 | 14.38 | 93.35 |
| GW-2 | 6/19/2000 | 107.73 | 14.83 | 92.90 |
| GW-2 | 7/17/2000 | 107.73 | 13.46 | 94.27 |
| GW-2 | 8/14/2000 | 107.73 | 14.83 | 92.90 |
| GW-2 | 9/18/2000 | 107.73 | 15.61 | 92.12 |
| GW-2 | 10/16/2000 | 107.73 | 15.66 | 92.07 |
| GW-2 | 11/13/2000 | 107.73 | 12.87 | 94.86 |
| GW-2 | 12/11/2000 | 107.73 | 13.47 | 94.26 |
| GW-2 | 1/12/2001 | 107.73 | 9.83 | 97.90 |
| GW-2 | 2/12/2001 | 107.73 | 12.54 | 95.19 |
| GW-2 | 3/12/2001 | 107.73 | 11.15 | 96.58 |
| GW-2 | 4/16/2001 | 107.73 | 10.99 | 96.74 |
| GW-2 | 5/14/2001 | 107.73 | 10.72 | 97.01 |
| GW-2 | 6/18/2001 | 107.73 | 10.95 | 96.78 |
| GW-2 | 7/16/2001 | 107.73 | 9.93 | 97.80 |
| GW-2 | 8/13/2001 | 107.73 | 10.11 | 97.62 |
| GW-2 | 9/17/2001 | 107.73 | 10.34 | 97.39 |
| GW-2 | 10/15/2001 | 107.73 | 9.82 | 97.91 |
| GW-2 | 11/12/2001 | 107.73 | 10.14 | 97.59 |
| GW-2 | 12/10/2001 | 107.73 | 10.35 | 97.38 |
| GW-2 | 1/14/2002 | 107.73 | 6.48 | 101.25 |
| GW-2 | 2/18/2002 | 107.73 | 10.65 | 97.08 |
| GW-2 | 3/12/2002 | 107.73 | 11.29 | 96.44 |
| GW-2 | 4/15/2002 | 107.73 | 11.62 | 96.11 |
| GW-2 | 7/8/2002 | 107.73 | 10.20 | 97.53 |
| GW-2 | 11/4/2002 | 107.73 | 10.94 | 96.79 |
| GW-2 | 2/10/2003 | 107.73 | 10.75 | 96.98 |
| GW-2 | 5/5/2003 | 107.73 | 11.64 | 96.09 |
| GW-2 | 8/11/2003 | 107.73 | 11.43 | 96.30 |
| GW-2 | 11/14/2003 | 107.73 | 12.10 | 95.63 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-2 | 2/9/2004 | 107.73 | 12.23 | 95.50 |
| GW-2 | 5/3/2004 | 107.73 | 10.25 | 97.48 |
| GW-2 | 7/19/2004 | 107.73 | 10.97 | 96.76 |
| GW-2 | 11/8/2004 | 107.73 | 9.13 | 98.60 |
| GW-2 | 1/31/2005 | 107.73 | 7.62 | 100.11 |
| GW-2 | 5/16/2005 | 107.73 | 7.80 | 99.93 |
| GW-2 | 8/16/2005 | 107.73 | 9.82 | 97.91 |
| GW-2 | 11/16/2005 | 107.73 | 9.32 | 98.41 |
| GW-2 | 2/14/2006 | 107.73 | 8.85 | 98.88 |
| GW-2 | 5/8/2006 | 107.73 | 8.52 | 99.21 |
| GW-2 | 8/7/2006 | 107.73 | 8.96 | 98.77 |
| GW-2 | 11/6/2006 | 107.73 | 8.87 | 98.86 |
| GW-2 | 1/25/2007 | 107.73 | 9.24 | 98.49 |
| GW-2 | 5/14/2007 | 107.73 | 8.71 | 99.02 |
| GW-2 | 8/3/2007 | 107.73 | 8.44 | 99.29 |
| GW-2 | 11/5/2007 | 107.73 | 8.86 | 98.87 |
| GW-2 | 1/28/2008 | 107.73 | 8.34 | 99.39 |
| GW-2 | 5/5/2008 | 107.73 | 8.25 | 99.48 |
| GW-2 | 8/4/2008 | 107.73 | 8.61 | 99.12 |
| GW-2 | 11/10/2008 | 107.73 | 9.71 | 98.02 |
| GW-2 | 2/13/2009 | 107.73 | 10.24 | 97.49 |
| GW-2 | 5/14/2009 | 107.73 | 10.46 | 97.27 |
| GW-2 | 8/5/2009 | 107.73 | 10.89 | 96.84 |
| GW-2 | 10/29/2009 | 107.73 | 10.91 | 96.82 |
| GW-2 | 1/25/2010 | 107.73 | 10.94 | 96.79 |
| GW-2 | 5/12/2010 | 107.73 | 10.14 | 97.59 |
| GW-2 | 8/2/2010 | 107.73 | 9.82 | 97.91 |
| GW-2 | 1/24/2011 | 107.73 | 9.44 | 98.29 |
| GW-2 | 8/1/2011 | 107.73 | 7.88 | 99.85 |
| GW-2 | 1/30/2012 | 107.73 | 10.01 | 97.72 |
| | | | | |
| GW-12V | 8/1/2011 | 105.41 | 8.58 | 96.83 |
| GW-12V | 1/30/2012 | 105.41 | Dry | NA |
| GW-12V | 1/28/2013 | 105.41 | Dry | NA |
| | | | | |
| GW-15A | 1/20/1998 | 104.61 | 8.00 | 96.61 |
| GW-15A | 7/13/1998 | 104.61 | 5.45 | 99.16 |
| GW-15A | 8/17/1998 | 104.61 | 8.50 | 96.11 |
| GW-15A | 9/14/1998 | 104.61 | 7.56 | 97.05 |
| GW-15A | 10/12/1998 | 104.61 | 7.50 | 97.11 |
| GW-15A | 11/9/1998 | 104.61 | 8.76 | 95.85 |
| GW-15A | 12/7/1998 | 104.61 | 7.68 | 96.93 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-15A | 1/18/1999 | 104.61 | 7.55 | 97.06 |
| GW-15A | 2/16/1999 | 104.61 | 7.00 | 97.61 |
| GW-15A | 3/16/1999 | 104.61 | 5.88 | 98.73 |
| GW-15A | 4/20/1999 | 104.61 | 7.27 | 97.34 |
| GW-15A | 5/18/1999 | 104.61 | 6.23 | 98.38 |
| GW-15A | 6/22/1999 | 104.61 | 6.58 | 98.03 |
| GW-15A | 7/19/1999 | 104.61 | 6.19 | 98.42 |
| GW-15A | 8/17/1999 | 104.61 | 6.46 | 98.15 |
| GW-15A | 9/13/1999 | 104.61 | 7.32 | 97.29 |
| GW-15A | 10/18/1999 | 104.61 | 7.36 | 97.25 |
| GW-15A | 11/15/1999 | 104.61 | 6.93 | 97.68 |
| GW-15A | 12/13/1999 | 104.61 | 7.46 | 97.15 |
| GW-15A | 1/14/2000 | 104.61 | 8.10 | 96.51 |
| GW-15A | 2/11/2000 | 104.61 | 7.62 | 96.99 |
| GW-15A | 3/13/2000 | 104.61 | 6.35 | 98.26 |
| GW-15A | 4/19/2000 | 104.61 | 5.98 | 98.63 |
| GW-15A | 5/22/2000 | 104.61 | 6.28 | 98.33 |
| GW-15A | 6/19/2000 | 104.61 | 6.53 | 98.08 |
| GW-15A | 7/17/2000 | 104.61 | 6.61 | 98.00 |
| GW-15A | 8/14/2000 | 104.61 | 6.61 | 98.00 |
| GW-15A | 9/18/2000 | 104.76 | 11.88 | 92.88 |
| GW-15A | 10/16/2000 | 104.76 | 12.77 | 91.99 |
| GW-15A | 11/13/2000 | 104.76 | 12.12 | 92.64 |
| GW-15A | 12/11/2000 | 104.76 | 12.27 | 92.49 |
| GW-15A | 1/12/2001 | 104.76 | 12.31 | 92.45 |
| GW-15A | 2/12/2001 | 104.76 | 12.32 | 92.44 |
| GW-15A | 3/12/2001 | 104.76 | 11.38 | 93.38 |
| GW-15A | 4/16/2001 | 104.76 | 11.65 | 93.11 |
| GW-15A | 5/14/2001 | 104.76 | 11.72 | 93.04 |
| GW-15A | 6/18/2001 | 104.76 | 14.56 | 90.20 |
| GW-15A | 7/16/2001 | 104.76 | 10.75 | 94.01 |
| GW-15A | 8/13/2001 | 104.76 | 11.17 | 93.59 |
| GW-15A | 9/17/2001 | 104.76 | 11.61 | 93.15 |
| GW-15A | 10/15/2001 | 104.76 | 10.98 | 93.78 |
| GW-15A | 11/12/2001 | 104.76 | 11.75 | 93.01 |
| GW-15A | 12/10/2001 | 104.76 | 12.49 | 92.27 |
| GW-15A | 1/14/2002 | 104.76 | 11.57 | 93.19 |
| GW-15A | 2/18/2002 | 104.76 | 12.10 | 92.66 |
| GW-15A | 3/12/2002 | 104.76 | 13.23 | 91.53 |
| GW-15A | 4/15/2002 | 104.76 | 13.93 | 90.83 |
| GW-15A | 7/8/2002 | 104.76 | 12.20 | 92.56 |
| GW-15A | 11/4/2002 | 104.76 | 12.24 | 92.52 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-15A | 2/10/2003 | 104.76 | 12.91 | 91.85 |
| GW-15A | 5/5/2003 | 104.76 | 16.38 | 88.38 |
| GW-15A | 8/11/2003 | 104.76 | 15.71 | 89.05 |
| GW-15A | 11/14/2003 | 104.76 | 16.60 | 88.16 |
| GW-15A | 2/9/2004 | 104.76 | 17.17 | 87.59 |
| GW-15A | 5/3/2004 | 104.76 | 15.70 | 89.06 |
| GW-15A | 7/19/2004 | 104.76 | 15.93 | 88.83 |
| GW-15A | 11/8/2004 | 104.76 | 6.52 | 98.24 |
| GW-15A | 1/31/2005 | 104.76 | 5.06 | 99.70 |
| GW-15A | 5/16/2005 | 104.76 | 4.98 | 99.78 |
| GW-15A | 8/16/2005 | 104.76 | 6.41 | 98.35 |
| GW-15A | 11/16/2005 | 104.76 | 6.68 | 98.08 |
| GW-15A | 2/14/2006 | 104.76 | 6.20 | 98.56 |
| GW-15A | 5/8/2006 | 104.76 | 5.82 | 98.94 |
| GW-15A | 8/7/2006 | 104.76 | 6.14 | 98.62 |
| GW-15A | 11/6/2006 | 104.76 | 5.87 | 98.89 |
| GW-15A | 1/25/2007 | 104.76 | 6.54 | 98.22 |
| GW-15A | 5/14/2007 | 104.76 | 5.98 | 98.78 |
| GW-15A | 8/3/2007 | 104.76 | 5.73 | 99.03 |
| GW-15A | 11/5/2007 | 104.76 | 5.93 | 98.83 |
| GW-15A | 1/28/2008 | 104.76 | 5.68 | 99.08 |
| GW-15A | 5/5/2008 | 104.76 | 5.61 | 99.15 |
| GW-15A | 8/4/2008 | 104.76 | 5.92 | 98.84 |
| GW-15A | 11/10/2008 | 104.76 | 6.99 | 97.77 |
| GW-15A | 2/13/2009 | 104.76 | 7.33 | 97.43 |
| GW-15A | 5/14/2009 | 104.76 | 7.76 | 97.00 |
| GW-15A | 8/5/2009 | 104.76 | 8.28 | 96.48 |
| GW-15A | 10/29/2009 | 104.76 | 8.03 | 96.73 |
| GW-15A | 1/25/2010 | 104.76 | 8.44 | 96.32 |
| GW-15A | 5/12/2010 | 104.76 | 7.18 | 97.58 |
| GW-15A | 8/2/2010 | 104.76 | 7.19 | 97.57 |
| GW-15A | 1/24/2011 | 104.76 | 6.82 | 97.94 |
| GW-15A | 8/1/2011 | 104.76 | 5.32 | 99.44 |
| GW-15A | 1/30/2012 | 104.76 | 7.23 | 97.53 |
| GW-15A | 1/28/2013 | 104.76 | 7.22 | 97.54 |
| | | | | |
| GW-15B | 1/20/1998 | 104.59 | 7.75 | 96.84 |
| GW-15B | 2/25/1998 | 104.59 | 2.40 | 102.19 |
| GW-15B | 4/12/1998 | 104.59 | 3.31 | 101.28 |
| GW-15B | 5/13/1998 | 104.59 | 3.92 | 100.67 |
| GW-15B | 6/15/1998 | 104.59 | 5.50 | 99.09 |
| GW-15B | 7/13/1998 | 104.59 | 6.52 | 98.07 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-15B | 8/17/1998 | 104.59 | 8.00 | 96.59 |
| GW-15B | 9/14/1998 | 104.59 | 8.52 | 96.07 |
| GW-15B | 10/12/1998 | 104.59 | 7.80 | 96.79 |
| GW-15B | 11/9/1998 | 104.59 | 8.58 | 96.01 |
| GW-15B | 12/7/1998 | 104.59 | 8.66 | 95.93 |
| GW-15B | 1/18/1999 | 104.59 | 8.75 | 95.84 |
| GW-15B | 2/16/1999 | 104.59 | 8.03 | 96.56 |
| GW-15B | 3/16/1999 | 104.59 | 6.58 | 98.01 |
| GW-15B | 4/20/1999 | 104.59 | 6.30 | 98.29 |
| GW-15B | 5/18/1999 | 104.59 | 7.28 | 97.31 |
| GW-15B | 6/22/1999 | 104.59 | 7.56 | 97.03 |
| GW-15B | 7/19/1999 | 104.59 | 7.39 | 97.20 |
| GW-15B | 8/17/1999 | 104.59 | 7.72 | 96.87 |
| GW-15B | 9/13/1999 | 104.59 | 8.40 | 96.19 |
| GW-15B | 10/18/1999 | 104.59 | 8.41 | 96.18 |
| GW-15B | 11/15/1999 | 104.59 | 8.00 | 96.59 |
| GW-15B | 12/13/1999 | 104.59 | 8.60 | 95.99 |
| GW-15B | 1/14/2000 | 104.59 | 9.32 | 95.27 |
| GW-15B | 2/11/2000 | 104.59 | 8.64 | 95.95 |
| GW-15B | 3/13/2000 | 104.59 | 7.59 | 97.00 |
| GW-15B | 4/19/2000 | 104.59 | 7.00 | 97.59 |
| GW-15B | 5/22/2000 | 104.59 | 7.33 | 97.26 |
| GW-15B | 6/19/2000 | 104.59 | 7.36 | 97.23 |
| GW-15B | 7/17/2000 | 104.59 | 7.33 | 97.26 |
| GW-15B | 8/14/2000 | 104.59 | 7.71 | 96.88 |
| GW-15B | 9/18/2000 | 104.59 | 8.90 | 95.69 |
| GW-15B | 10/16/2000 | 104.59 | 9.37 | 95.22 |
| GW-15B | 11/13/2000 | 104.59 | 8.88 | 95.71 |
| GW-15B | 12/11/2000 | 104.59 | 9.18 | 95.41 |
| GW-15B | 1/12/2001 | 104.59 | 8.96 | 95.63 |
| GW-15B | 2/12/2001 | 104.59 | 8.89 | 95.70 |
| GW-15B | 3/12/2001 | 104.59 | 7.58 | 97.01 |
| GW-15B | 4/16/2001 | 104.59 | 8.10 | 96.49 |
| GW-15B | 5/14/2001 | 104.59 | 8.02 | 96.57 |
| GW-15B | 6/18/2001 | 104.59 | 6.65 | 97.94 |
| GW-15B | 7/16/2001 | 104.59 | 5.84 | 98.75 |
| GW-15B | 8/13/2001 | 104.59 | 6.16 | 98.43 |
| GW-15B | 9/17/2001 | 104.59 | 6.41 | 98.18 |
| GW-15B | 10/15/2001 | 104.59 | 6.76 | 97.83 |
| GW-15B | 11/12/2001 | 104.59 | 6.52 | 98.07 |
| GW-15B | 12/10/2001 | 104.59 | 6.97 | 97.62 |
| GW-15B | 1/14/2002 | 104.59 | 7.74 | 96.85 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-15B | 2/18/2002 | 104.59 | 6.49 | 98.10 |
| GW-15B | 3/12/2002 | 104.59 | 7.46 | 97.13 |
| GW-15B | 4/15/2002 | 104.59 | 7.72 | 96.87 |
| GW-15B | 7/8/2002 | 104.59 | 5.95 | 98.64 |
| GW-15B | 11/4/2002 | 104.59 | 6.37 | 98.22 |
| GW-15B | 2/10/2003 | 104.59 | 6.03 | 98.56 |
| GW-15B | 5/5/2003 | 104.59 | 7.42 | 97.17 |
| GW-15B | 8/11/2003 | 104.59 | 6.82 | 97.77 |
| GW-15B | 11/14/2003 | 104.59 | 7.61 | 96.98 |
| GW-15B | 2/9/2004 | 104.59 | 8.00 | 96.59 |
| GW-15B | 5/3/2004 | 104.59 | 6.29 | 98.30 |
| GW-15B | 7/19/2004 | 104.59 | 6.65 | 97.94 |
| GW-15B | 11/8/2004 | 104.59 | 6.58 | 98.01 |
| GW-15B | 1/31/2005 | 104.59 | 5.12 | 99.47 |
| GW-15B | 5/16/2005 | 104.59 | 5.00 | 99.59 |
| GW-15B | 8/16/2005 | 104.59 | 6.43 | 98.16 |
| GW-15B | 11/16/2005 | 104.59 | 6.72 | 97.87 |
| GW-15B | 2/14/2006 | 104.59 | 6.22 | 98.37 |
| GW-15B | 5/8/2006 | 104.59 | 5.83 | 98.76 |
| GW-15B | 8/7/2006 | 104.59 | 6.15 | 98.44 |
| GW-15B | 11/6/2006 | 104.59 | 5.89 | 98.70 |
| GW-15B | 1/25/2007 | 104.59 | 6.93 | 97.66 |
| GW-15B | 5/14/2007 | 104.59 | 6.00 | 98.59 |
| GW-15B | 8/3/2007 | 104.59 | 5.72 | 98.87 |
| GW-15B | 11/5/2007 | 104.59 | 5.97 | 98.62 |
| GW-15B | 1/28/2008 | 104.59 | 5.76 | 98.83 |
| GW-15B | 5/5/2008 | 104.59 | 5.58 | 99.01 |
| GW-15B | 8/4/2008 | 104.59 | 5.89 | 98.70 |
| GW-15B | 11/10/2008 | 104.59 | 7.06 | 97.53 |
| GW-15B | 2/13/2009 | 104.59 | 8.01 | 96.58 |
| GW-15B | 5/14/2009 | 104.59 | 7.80 | 96.79 |
| GW-15B | 8/5/2009 | 104.59 | 8.22 | 96.37 |
| GW-15B | 10/29/2009 | 104.59 | 8.14 | 96.45 |
| GW-15B | 1/25/2010 | 104.59 | 8.50 | 96.09 |
| GW-15B | 5/12/2010 | 104.59 | 7.29 | 97.30 |
| GW-15B | 8/2/2010 | 104.59 | 7.13 | 97.46 |
| GW-15B | 1/24/2011 | 104.59 | 6.84 | 97.75 |
| GW-15B | 8/1/2011 | 104.59 | 5.40 | 99.19 |
| GW-15B | 1/30/2012 | 104.59 | 7.3 | 97.29 |
| GW-15B | 1/28/2013 | 104.59 | 7.34 | 97.25 |
| | | | | |
| GW-15C | 1/20/1998 | 104.84 | 7.65 | 97.19 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-15C | 7/13/1998 | 104.84 | 6.73 | 98.11 |
| GW-15C | 8/17/1998 | 104.84 | 8.10 | 96.74 |
| GW-15C | 9/14/1998 | 104.84 | 8.62 | 96.22 |
| GW-15C | 10/12/1998 | 104.84 | 7.90 | 96.94 |
| GW-15C | 11/9/1998 | 104.84 | 8.55 | 96.29 |
| GW-15C | 12/7/1998 | 104.84 | 8.65 | 96.19 |
| GW-15C | 1/18/1999 | 104.84 | 8.67 | 96.17 |
| GW-15C | 2/16/1999 | 104.84 | 8.00 | 96.84 |
| GW-15C | 3/16/1999 | 104.84 | 7.12 | 97.72 |
| GW-15C | 4/20/1999 | 104.84 | 6.54 | 98.30 |
| GW-15C | 5/18/1999 | 104.84 | 7.33 | 97.51 |
| GW-15C | 6/22/1999 | 104.84 | 7.63 | 97.21 |
| GW-15C | 7/19/1999 | 104.84 | 7.21 | 97.63 |
| GW-15C | 8/17/1999 | 104.84 | 7.70 | 97.14 |
| GW-15C | 9/13/1999 | 104.84 | 8.44 | 96.40 |
| GW-15C | 10/18/1999 | 104.84 | 8.57 | 96.27 |
| GW-15C | 11/15/1999 | 104.84 | 8.13 | 96.71 |
| GW-15C | 12/13/1999 | 104.84 | 8.68 | 96.16 |
| GW-15C | 1/14/2000 | 104.84 | 9.38 | 95.46 |
| GW-15C | 2/11/2000 | 104.84 | 8.78 | 96.06 |
| GW-15C | 3/13/2000 | 104.84 | 7.35 | 97.49 |
| GW-15C | 4/19/2000 | 104.84 | 7.28 | 97.56 |
| GW-15C | 5/22/2000 | 104.84 | 7.28 | 97.56 |
| GW-15C | 6/19/2000 | 104.84 | 7.60 | 97.24 |
| GW-15C | 7/17/2000 | 104.84 | 7.68 | 97.16 |
| GW-15C | 8/14/2000 | 104.84 | 7.62 | 97.22 |
| GW-15C | 9/18/2000 | 104.84 | 9.20 | 95.64 |
| GW-15C | 10/16/2000 | 104.84 | 9.38 | 95.46 |
| GW-15C | 11/13/2000 | 104.84 | 8.89 | 95.95 |
| GW-15C | 12/11/2000 | 104.84 | 9.57 | 95.27 |
| GW-15C | 1/12/2001 | 104.84 | 8.91 | 95.93 |
| GW-15C | 2/12/2001 | 104.84 | 8.97 | 95.87 |
| GW-15C | 3/12/2001 | 104.84 | 7.81 | 97.03 |
| GW-15C | 4/16/2001 | 104.84 | 8.16 | 96.68 |
| GW-15C | 5/14/2001 | 104.84 | 8.11 | 96.73 |
| GW-15C | 6/18/2001 | 104.84 | 6.86 | 97.98 |
| GW-15C | 7/16/2001 | 104.84 | 6.06 | 98.78 |
| GW-15C | 8/13/2001 | 104.84 | 6.34 | 98.50 |
| GW-15C | 9/17/2001 | 104.84 | 6.60 | 98.24 |
| GW-15C | 10/15/2001 | 104.84 | 5.96 | 98.88 |
| GW-15C | 11/12/2001 | 104.84 | 6.53 | 98.31 |
| GW-15C | 12/10/2001 | 104.84 | 7.08 | 97.76 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-15C | 1/14/2002 | 104.84 | 7.92 | 96.92 |
| GW-15C | 2/18/2002 | 104.84 | 6.58 | 98.26 |
| GW-15C | 3/12/2002 | 104.84 | 7.60 | 97.24 |
| GW-15C | 4/15/2002 | 104.84 | 7.93 | 96.91 |
| GW-15C | 7/8/2002 | 104.84 | 6.20 | 98.64 |
| GW-15C | 11/4/2002 | 104.84 | 6.50 | 98.34 |
| GW-15C | 2/10/2003 | 104.84 | 6.87 | 97.97 |
| GW-15C | 5/5/2003 | 104.84 | 7.69 | 97.15 |
| GW-15C | 8/11/2003 | 104.84 | 7.04 | 97.80 |
| GW-15C | 11/14/2003 | 104.84 | 7.87 | 96.97 |
| GW-15C | 2/9/2004 | 104.84 | 8.06 | 96.78 |
| GW-15C | 5/3/2004 | 104.84 | 6.64 | 98.20 |
| GW-15C | 7/19/2004 | 104.84 | 6.96 | 97.88 |
| GW-15C | 11/8/2004 | 104.84 | 6.60 | 98.24 |
| GW-15C | 1/31/2005 | 104.84 | 5.11 | 99.73 |
| GW-15C | 5/16/2005 | 104.84 | 5.11 | 99.73 |
| GW-15C | 8/16/2005 | 104.84 | 6.55 | 98.29 |
| GW-15C | 11/16/2005 | 104.84 | 6.75 | 98.09 |
| GW-15C | 2/14/2006 | 104.84 | 6.25 | 98.59 |
| GW-15C | 5/8/2006 | 104.84 | 5.90 | 98.94 |
| GW-15C | 8/7/2006 | 104.84 | 6.21 | 98.63 |
| GW-15C | 11/6/2006 | 104.84 | 5.91 | 98.93 |
| GW-15C | 1/25/2007 | 104.84 | 6.62 | 98.22 |
| GW-15C | 5/14/2007 | 104.84 | 6.04 | 98.80 |
| GW-15C | 8/3/2007 | 104.84 | 5.78 | 99.06 |
| GW-15C | 11/5/2007 | 104.84 | 6.02 | 98.82 |
| GW-15C | 1/28/2008 | 104.84 | 5.74 | 99.10 |
| GW-15C | 5/5/2008 | 104.84 | 5.68 | 99.16 |
| GW-15C | 8/4/2008 | 104.84 | 6.00 | 98.84 |
| GW-15C | 11/10/2008 | 104.84 | 7.04 | 97.80 |
| GW-15C | 2/13/2009 | 104.84 | 8.02 | 96.82 |
| GW-15C | 5/14/2009 | 104.84 | 7.85 | 96.99 |
| GW-15C | 8/5/2009 | 104.84 | 8.35 | 96.49 |
| GW-15C | 10/29/2009 | 104.84 | 8.17 | 96.67 |
| GW-15C | 1/25/2010 | 104.84 | 8.51 | 96.33 |
| GW-15C | 5/12/2010 | 104.84 | 7.34 | 97.50 |
| GW-15C | 8/2/2010 | 104.84 | 7.30 | 97.54 |
| GW-15C | 1/24/2011 | 104.84 | 6.89 | 97.95 |
| GW-15C | 8/1/2011 | 104.84 | 5.45 | 99.39 |
| GW-15C | 1/30/2012 | 104.84 | 7.32 | 97.52 |
| GW-15C | 1/28/2013 | 104.84 | 7.36 | 97.48 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-24 | 1/19/1998 | 107.73 | 8.55 | 99.18 |
| GW-24 | 1/18/1999 | 107.73 | 10.20 | 97.53 |
| GW-24 | 1/14/2000 | 107.73 | 11.43 | 96.30 |
| GW-24 | 1/12/2001 | 107.73 | 9.52 | 98.21 |
| GW-24 | 4/16/2001 | 107.73 | 9.36 | 98.37 |
| GW-24 | 7/16/2001 | 107.73 | 8.63 | 99.10 |
| GW-24 | 1/14/2002 | 107.73 | 8.16 | 99.57 |
| GW-24 | 2/10/2003 | 107.73 | 9.14 | 98.59 |
| GW-24 | 2/9/2004 | 107.73 | 10.20 | 97.53 |
| GW-24 | 1/31/2005 | 107.73 | 7.47 | 100.26 |
| GW-24 | 5/16/2005 | 107.73 | 7.59 | 100.14 |
| GW-24 | 8/16/2005 | 107.73 | 8.69 | 99.04 |
| GW-24 | 11/16/2005 | 107.73 | 9.11 | 98.62 |
| GW-24 | 2/14/2006 | 107.73 | 8.68 | 99.05 |
| GW-24 | 5/8/2006 | 107.73 | 8.40 | 99.33 |
| GW-24 | 8/7/2006 | 107.73 | 8.72 | 99.01 |
| GW-24 | 11/6/2006 | 107.73 | 8.52 | 99.21 |
| GW-24 | 1/25/2007 | 107.73 | 9.12 | 98.61 |
| GW-24 | 5/14/2007 | 107.73 | 8.54 | 99.19 |
| GW-24 | 8/3/2007 | 107.73 | 8.23 | 99.50 |
| GW-24 | 11/5/2007 | 107.73 | 8.65 | 99.08 |
| GW-24 | 1/28/2008 | 107.73 | 8.22 | 99.51 |
| GW-24 | 5/5/2008 | 107.73 | 8.00 | 99.73 |
| GW-24 | 8/4/2008 | 107.73 | 8.37 | 99.36 |
| GW-24 | 11/10/2008 | 107.73 | 8.22 | 99.51 |
| GW-24 | 2/13/2009 | 107.73 | 10.42 | 97.31 |
| GW-24 | 5/14/2009 | 107.73 | 10.31 | 97.42 |
| GW-24 | 8/5/2009 | 107.73 | 10.73 | 97.00 |
| GW-24 | 10/29/2009 | 107.73 | 10.70 | 97.03 |
| GW-24 | 1/25/2010 | 107.73 | 10.83 | 96.90 |
| GW-24 | 5/12/2010 | 107.73 | 9.93 | 97.80 |
| GW-24 | 8/2/2010 | 107.73 | 9.62 | 98.11 |
| GW-24 | 1/24/2011 | 107.73 | 9.30 | 98.43 |
| GW-24 | 8/1/2011 | 107.73 | 7.81 | 99.92 |
| GW-24 | 1/30/2012 | 107.73 | 9.89 | 97.84 |
| GW-24 | 1/28/2013 | 107.73 | 9.84 | 97.89 |
| | | | | |
| GW-39D | 6/22/1999 | 105.00 | 9.06 | 95.94 |
| GW-39D | 7/19/1999 | 105.00 | 16.08 | 88.92 |
| GW-39D | 8/17/1999 | 106.10 | 15.72 | 90.38 |
| GW-39D | 9/13/1999 | 106.10 | 32.05 | 74.05 |
| GW-39D | 10/18/1999 | 106.10 | 50.25 | 55.85 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-39D | 11/15/1999 | 106.10 | 57.75 | 48.35 |
| GW-39D | 12/13/1999 | 106.10 | 60.74 | 45.36 |
| GW-39D | 1/14/2000 | 106.10 | 63.85 | 42.25 |
| GW-39D | 2/11/2000 | 106.10 | 73.40 | 32.70 |
| GW-39D | 3/13/2000 | 106.10 | 76.35 | 29.75 |
| GW-39D | 4/19/2000 | 106.10 | 66.82 | 39.28 |
| GW-39D | 5/22/2000 | 106.10 | 57.79 | 48.31 |
| GW-39D | 6/19/2000 | 106.10 | 60.86 | 45.24 |
| GW-39D | 7/17/2000 | 106.10 | 55.41 | 50.69 |
| GW-39D | 9/18/2000 | 106.10 | 62.84 | 43.26 |
| GW-39D | 10/16/2000 | 106.10 | 68.58 | 37.52 |
| GW-39D | 11/13/2000 | 106.10 | 68.52 | 37.58 |
| GW-39D | 12/11/2000 | 106.10 | 66.27 | 39.83 |
| GW-39D | 1/12/2001 | 106.10 | 40.54 | 65.56 |
| GW-39D | 2/12/2001 | 106.10 | 61.58 | 44.52 |
| GW-39D | 3/12/2001 | 106.10 | 71.03 | 35.07 |
| GW-39D | 4/16/2001 | 106.10 | 69.66 | 36.44 |
| GW-39D | 5/14/2001 | 106.10 | 69.09 | 37.01 |
| GW-39D | 6/18/2001 | 106.10 | 71.79 | 34.31 |
| GW-39D | 7/16/2001 | 106.10 | 89.05 | 17.05 |
| GW-39D | 8/13/2001 | 106.10 | 10.59 | 95.51 |
| GW-39D | 9/17/2001 | 106.10 | 57.60 | 48.50 |
| GW-39D | 10/15/2001 | 106.10 | 61.55 | 44.55 |
| GW-39D | 11/12/2001 | 106.10 | 64.58 | 41.52 |
| GW-39D | 12/10/2001 | 106.10 | 70.05 | 36.05 |
| GW-39D | 1/14/2002 | 106.10 | 6.63 | 99.47 |
| GW-39D | 2/18/2002 | 106.10 | 10.42 | 95.68 |
| GW-39D | 3/12/2002 | 106.10 | 69.87 | 36.23 |
| GW-39D | 4/15/2002 | 106.10 | 47.19 | 58.91 |
| GW-39D | 7/8/2002 | 106.10 | 70.35 | 35.75 |
| GW-39D | 11/4/2002 | 106.10 | 35.35 | 70.75 |
| GW-39D | 2/10/2003 | 106.10 | 62.38 | 43.72 |
| GW-39D | 5/5/2003 | 106.10 | 9.58 | 96.52 |
| GW-39D | 2/9/2004 | 106.10 | 10.89 | 95.21 |
| GW-39D | 5/3/2004 | 106.10 | 8.91 | 97.19 |
| GW-39D | 7/19/2004 | 106.10 | 9.87 | 96.23 |
| GW-39D | 11/8/2004 | 106.10 | 10.03 | 96.07 |
| GW-39D | 1/31/2005 | 106.10 | 8.37 | 97.73 |
| GW-39D | 5/16/2005 | 106.10 | 6.48 | 99.62 |
| GW-39D | 8/16/2005 | 106.10 | 9.50 | 96.60 |
| GW-39D | 11/16/2005 | 106.10 | 10.10 | 96.00 |
| GW-39D | 2/14/2006 | 106.10 | 9.71 | 96.39 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-39D | 5/8/2006 | 106.10 | 9.28 | 96.82 |
| GW-39D | 8/7/2006 | 106.10 | 9.66 | 96.44 |
| GW-39D | 11/6/2006 | 106.10 | 9.47 | 96.63 |
| GW-39D | 1/25/2007 | 106.10 | 10.03 | 96.07 |
| GW-39D | 5/14/2007 | 106.10 | 9.47 | 96.63 |
| GW-39D | 8/3/2007 | 106.10 | 9.13 | 96.97 |
| GW-39D | 11/5/2007 | 106.10 | 9.65 | 96.45 |
| GW-39D | 1/28/2008 | 106.10 | 9.13 | 96.97 |
| GW-39D | 5/5/2008 | 106.10 | 8.90 | 97.20 |
| GW-39D | 8/4/2008 | 106.10 | 9.92 | 96.18 |
| GW-39D | 11/10/2008 | 106.10 | 10.61 | 95.49 |
| GW-39D | 2/13/2009 | 106.10 | 11.38 | 94.72 |
| GW-39D | 5/14/2009 | 106.10 | 11.30 | 94.80 |
| GW-39D | 8/5/2009 | 106.10 | 11.74 | 94.36 |
| GW-39D | 10/29/2009 | 106.10 | 11.71 | 94.39 |
| GW-39D | 1/25/2010 | 106.10 | 11.91 | 94.19 |
| GW-39D | 5/12/2010 | 106.10 | 10.94 | 95.16 |
| GW-39D | 8/2/2010 | 106.10 | 10.48 | 95.62 |
| GW-39D | 1/24/2011 | 106.10 | 10.30 | 95.80 |
| GW-39D | 8/1/2011 | 106.10 | 8.98 | 97.12 |
| GW-39D | 1/30/2012 | 106.10 | 10.90 | 95.20 |
| GW-39D | 1/28/2013 | 106.10 | 10.88 | 95.22 |
| | | | | |
| GW-5 | 1/20/1998 | 105.41 | 8.90 | 96.51 |
| GW-5 | 2/25/1998 | 105.41 | 4.85 | 100.56 |
| GW-5 | 3/18/1998 | 105.41 | 4.20 | 101.21 |
| GW-5 | 4/13/1998 | 105.41 | 5.20 | 100.21 |
| GW-5 | 5/11/1998 | 105.41 | 5.60 | 99.81 |
| GW-5 | 7/13/1998 | 105.41 | 11.60 | 93.81 |
| GW-5 | 8/17/1998 | 105.41 | 13.00 | 92.41 |
| GW-5 | 9/14/1998 | 105.41 | 13.98 | 91.43 |
| GW-5 | 10/12/1998 | 105.41 | 9.40 | 96.01 |
| GW-5 | 11/9/1998 | 105.41 | 13.94 | 91.47 |
| GW-5 | 12/7/1998 | 105.41 | 14.35 | 91.06 |
| GW-5 | 1/18/1999 | 105.41 | 13.10 | 92.31 |
| GW-5 | 2/16/1999 | 105.41 | 13.20 | 92.21 |
| GW-5 | 3/16/1999 | 105.41 | 12.22 | 93.19 |
| GW-5 | 4/20/1999 | 105.41 | 12.25 | 93.16 |
| GW-5 | 5/18/1999 | 105.41 | 12.87 | 92.54 |
| GW-5 | 6/22/1999 | 105.41 | 13.23 | 92.18 |
| GW-5 | 7/19/1999 | 105.41 | 12.46 | 92.95 |
| GW-5 | 8/17/1999 | 105.41 | 12.72 | 92.69 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-5 | 9/13/1999 | 105.41 | 13.00 | 92.41 |
| GW-5 | 10/18/1999 | 105.41 | 12.98 | 92.43 |
| GW-5 | 11/15/1999 | 105.41 | 12.53 | 92.88 |
| GW-5 | 12/13/1999 | 105.41 | 13.26 | 92.15 |
| GW-5 | 1/14/2000 | 105.41 | 13.78 | 91.63 |
| GW-5 | 2/11/2000 | 105.41 | 13.55 | 91.86 |
| GW-5 | 3/13/2000 | 105.41 | 11.71 | 93.70 |
| GW-5 | 4/19/2000 | 105.41 | 11.36 | 94.05 |
| GW-5 | 5/22/2000 | 105.41 | 12.01 | 93.40 |
| GW-5 | 6/19/2000 | 105.41 | 12.55 | 92.86 |
| GW-5 | 7/17/2000 | 105.41 | 13.61 | 91.80 |
| GW-5 | 8/14/2000 | 105.41 | 12.89 | 92.52 |
| GW-5 | 9/18/2000 | 105.41 | 13.58 | 91.83 |
| GW-5 | 10/16/2000 | 105.41 | 13.37 | 92.04 |
| GW-5 | 11/13/2000 | 105.41 | 13.76 | 91.65 |
| GW-5 | 12/11/2000 | 105.41 | 14.58 | 90.83 |
| GW-5 | 1/12/2001 | 105.41 | 13.50 | 91.91 |
| GW-5 | 2/12/2001 | 105.41 | 13.44 | 91.97 |
| GW-5 | 3/12/2001 | 105.41 | 13.23 | 92.18 |
| GW-5 | 4/16/2001 | 105.41 | 13.45 | 91.96 |
| GW-5 | 5/14/2001 | 105.41 | 13.48 | 91.93 |
| GW-5 | 6/18/2001 | 105.41 | 7.27 | 98.14 |
| GW-5 | 7/16/2001 | 105.41 | 6.45 | 98.96 |
| GW-5 | 8/13/2001 | 105.41 | 9.62 | 95.79 |
| GW-5 | 9/17/2001 | 105.41 | 7.19 | 98.22 |
| GW-5 | 10/15/2001 | 105.41 | 6.42 | 98.99 |
| GW-5 | 11/12/2001 | 105.41 | 10.58 | 94.83 |
| GW-5 | 12/10/2001 | 105.41 | 7.96 | 97.45 |
| GW-5 | 1/14/2002 | 105.41 | 7.65 | 97.76 |
| GW-5 | 2/18/2002 | 105.41 | 7.43 | 97.98 |
| GW-5 | 3/12/2002 | 105.41 | 10.36 | 95.05 |
| GW-5 | 4/15/2002 | 105.41 | 10.12 | 95.29 |
| GW-5 | 7/8/2002 | 105.41 | 6.74 | 98.67 |
| GW-5 | 11/4/2002 | 105.41 | 7.34 | 98.07 |
| GW-5 | 2/10/2003 | 105.41 | 12.77 | 92.64 |
| GW-5 | 5/5/2003 | 105.41 | 8.37 | 97.04 |
| GW-5 | 8/11/2003 | 105.41 | 7.58 | 97.83 |
| GW-5 | 11/14/2003 | 105.41 | 8.91 | 96.50 |
| GW-5 | 2/9/2004 | 105.41 | 8.93 | 96.48 |
| GW-5 | 5/3/2004 | 105.41 | 7.09 | 98.32 |
| GW-5 | 7/19/2004 | 105.41 | 8.51 | 96.90 |
| GW-5 | 11/8/2004 | 105.41 | 7.59 | 97.82 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| GW-5 | 1/31/2005 | 105.41 | 6.19 | 99.22 |
| GW-5 | 5/16/2005 | 105.41 | 6.00 | 99.41 |
| GW-5 | 8/16/2005 | 105.41 | 7.48 | 97.93 |
| GW-5 | 11/16/2005 | 105.41 | 7.74 | 97.67 |
| GW-5 | 2/14/2006 | 105.41 | 7.19 | 98.22 |
| GW-5 | 5/8/2006 | 105.41 | 6.76 | 98.65 |
| GW-5 | 8/7/2006 | 105.41 | 7.05 | 98.36 |
| GW-5 | 11/6/2006 | 105.41 | 6.84 | 98.57 |
| GW-5 | 1/25/2007 | 105.41 | 7.55 | 97.86 |
| GW-5 | 5/14/2007 | 105.41 | 7.18 | 98.23 |
| GW-5 | 8/3/2007 | 105.41 | 6.98 | 98.43 |
| GW-5 | 11/5/2007 | 105.41 | 6.64 | 98.77 |
| GW-5 | 1/28/2008 | 105.41 | 6.77 | 98.64 |
| GW-5 | 8/4/2008 | 105.41 | 6.76 | 98.65 |
| GW-5 | 2/13/2009 | 105.41 | 8.89 | 96.52 |
| GW-5 | 8/5/2009 | 105.41 | 9.14 | 96.27 |
| GW-5 | 1/25/2010 | 105.41 | 9.52 | 95.89 |
| GW-5 | 8/2/2010 | 105.41 | 8.01 | 97.40 |
| GW-5 | 1/24/2011 | 105.41 | 7.75 | 97.66 |
| GW-5 | 8/1/2011 | 105.41 | 6.32 | 99.09 |
| GW-5 | 1/30/2012 | 105.41 | 8.19 | 97.22 |
| GW-5 | 1/28/2013 | 105.41 | 8.21 | 97.2 |
| | | | | |
| I-37 | 6/22/1999 | NA | 7.88 | NA |
| I-37 | 7/19/1999 | NA | 7.59 | NA |
| I-37 | 8/17/1999 | NA | 7.91 | NA |
| I-37 | 9/13/1999 | NA | 8.35 | NA |
| I-37 | 10/18/1999 | NA | 8.73 | NA |
| I-37 | 11/15/1999 | NA | 8.82 | NA |
| I-37 | 12/13/1999 | NA | 8.88 | NA |
| I-37 | 1/14/2000 | NA | 9.28 | NA |
| I-37 | 2/11/2000 | NA | 8.89 | NA |
| I-37 | 3/13/2000 | NA | 7.65 | NA |
| I-37 | 4/19/2000 | NA | 6.92 | NA |
| I-37 | 5/22/2000 | NA | 7.51 | NA |
| I-37 | 6/19/2000 | NA | 7.57 | NA |
| I-37 | 7/17/2000 | NA | 6.34 | NA |
| I-37 | 8/14/2000 | NA | 7.57 | NA |
| I-37 | 9/18/2000 | NA | 8.85 | NA |
| I-37 | 10/16/2000 | NA | 9.17 | NA |
| I-37 | 11/13/2000 | NA | 8.68 | NA |
| I-37 | 12/11/2000 | NA | 8.93 | NA |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| I-37 | 1/12/2001 | NA | 8.88 | NA |
| I-37 | 2/12/2001 | NA | 8.79 | NA |
| I-37 | 3/12/2001 | NA | 8.00 | NA |
| I-37 | 4/16/2001 | NA | 7.90 | NA |
| I-37 | 5/14/2001 | NA | 8.02 | NA |
| I-37 | 6/18/2001 | NA | 7.10 | NA |
| I-37 | 7/16/2001 | NA | 6.28 | NA |
| I-37 | 8/13/2001 | NA | 6.51 | NA |
| I-37 | 9/17/2001 | NA | 6.84 | NA |
| I-37 | 10/15/2001 | NA | 6.28 | NA |
| I-37 | 11/12/2001 | NA | 6.84 | NA |
| I-37 | 12/10/2001 | NA | 7.41 | NA |
| I-37 | 1/14/2002 | NA | 6.23 | NA |
| I-37 | 2/18/2002 | NA | 6.79 | NA |
| I-37 | 3/12/2002 | NA | 7.42 | NA |
| I-37 | 4/15/2002 | NA | 7.73 | NA |
| I-37 | 7/8/2002 | NA | 6.36 | NA |
| I-37 | 11/4/2002 | NA | 6.83 | NA |
| I-37 | 2/10/2003 | NA | 7.09 | NA |
| I-37 | 5/5/2003 | NA | 7.97 | NA |
| I-37 | 8/11/2003 | NA | 7.28 | NA |
| I-37 | 11/14/2003 | NA | 8.12 | NA |
| I-37 | 2/9/2004 | NA | 8.30 | NA |
| I-37 | 5/3/2004 | NA | 6.93 | NA |
| I-37 | 7/19/2004 | NA | 6.90 | NA |
| I-37 | 1/31/2005 | NA | 6.03 | NA |
| I-37 | 2/14/2006 | NA | 5.97 | NA |
| I-37 | 1/25/2007 | NA | 7.33 | NA |
| I-37 | 1/28/2008 | NA | 6.58 | NA |
| I-37 | 8/4/2008 | NA | 6.30 | NA |
| I-37 | 11/10/2008 | NA | 7.85 | NA |
| I-37 | 2/13/2009 | NA | 8.79 | NA |
| I-37 | 5/14/2009 | NA | 8.54 | NA |
| I-37 | 8/5/2009 | NA | 8.78 | NA |
| I-37 | 10/29/2009 | NA | 8.77 | NA |
| I-37 | 1/25/2010 | NA | 9.22 | NA |
| I-37 | 5/12/2010 | NA | 7.93 | NA |
| I-37 | 8/2/2010 | NA | 7.93 | NA |
| I-37 | 1/24/2011 | NA | 7.72 | NA |
| I-37 | 1/30/2012 | NA | 8.12 | NA |
| I-37 | 1/28/2013 | NA | 8.16 | NA |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| P-5 | 1/18/1999 | 107.70 | 14.15 | 93.55 |
| P-5 | 2/16/1999 | 107.70 | 16.58 | 91.12 |
| P-5 | 3/16/1999 | 107.70 | 24.85 | 82.85 |
| P-5 | 4/20/1999 | 107.70 | 22.00 | 85.70 |
| P-5 | 5/18/1999 | 107.70 | 22.77 | 84.93 |
| P-5 | 6/22/1999 | 107.70 | 19.78 | 87.92 |
| P-5 | 7/19/1999 | 107.70 | 22.43 | 85.27 |
| P-5 | 8/17/1999 | 107.70 | 25.20 | 82.50 |
| P-5 | 9/13/1999 | 107.70 | 19.53 | 88.17 |
| P-5 | 10/18/1999 | 107.70 | 20.36 | 87.34 |
| P-5 | 11/15/1999 | 107.70 | 24.81 | 82.89 |
| P-5 | 12/13/1999 | 107.70 | 20.37 | 87.33 |
| P-5 | 1/14/2000 | 107.70 | 24.10 | 83.60 |
| P-5 | 2/11/2000 | 107.70 | 21.26 | 86.44 |
| P-5 | 3/13/2000 | 107.70 | 19.78 | 87.92 |
| P-5 | 4/19/2000 | 107.70 | 20.82 | 86.88 |
| P-5 | 5/22/2000 | 107.70 | 14.87 | 92.83 |
| P-5 | 6/19/2000 | 107.70 | 18.28 | 89.42 |
| P-5 | 7/17/2000 | 107.70 | 13.81 | 93.89 |
| P-5 | 8/14/2000 | 107.70 | 14.23 | 93.47 |
| P-5 | 9/18/2000 | 107.70 | 26.28 | 81.42 |
| P-5 | 10/16/2000 | 107.70 | 22.21 | 85.49 |
| P-5 | 11/13/2000 | 107.70 | 20.41 | 87.29 |
| P-5 | 12/11/2000 | 107.70 | 21.82 | 85.88 |
| P-5 | 1/12/2001 | 107.70 | 19.58 | 88.12 |
| P-5 | 2/12/2001 | 107.70 | 19.92 | 87.78 |
| P-5 | 3/12/2001 | 107.70 | 19.00 | 88.70 |
| P-5 | 4/16/2001 | 107.70 | 19.66 | 88.04 |
| P-5 | 5/14/2001 | 107.70 | 25.32 | 82.38 |
| P-5 | 6/18/2001 | 107.70 | 10.41 | 97.29 |
| P-5 | 7/16/2001 | 107.70 | 9.60 | 98.10 |
| P-5 | 8/13/2001 | 107.70 | 10.62 | 97.08 |
| P-5 | 9/17/2001 | 107.70 | 10.82 | 96.88 |
| P-5 | 10/15/2001 | 107.70 | 10.13 | 97.57 |
| P-5 | 11/12/2001 | 107.70 | 35.26 | 72.44 |
| P-5 | 12/10/2001 | 107.70 | 7.88 | 99.82 |
| P-5 | 1/14/2002 | 107.70 | 10.04 | 97.66 |
| P-5 | 2/18/2002 | 107.70 | 10.03 | 97.67 |
| P-5 | 3/12/2002 | 107.70 | 10.21 | 97.49 |
| P-5 | 4/15/2002 | 107.70 | 12.02 | 95.68 |
| P-5 | 7/8/2002 | 107.70 | 10.26 | 97.44 |
| P-5 | 11/4/2002 | 107.70 | 37.60 | 70.10 |

**TABLE 3**
**GROUNDWATER MONITORING DATA**

**January 1998 through January 2013**

**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | MP ELEVATION (feet) | DEPTH TO WATER (feet) | WATER ELEVATION (feet) |
|---|---|---|---|---|
| P-5 | 2/10/2003 | 107.70 | 11.66 | 96.04 |
| P-5 | 5/5/2003 | 107.70 | 11.20 | 96.50 |
| P-5 | 8/11/2003 | 107.70 | 11.03 | 96.67 |
| P-5 | 11/14/2003 | 107.70 | 12.25 | 95.45 |
| P-5 | 2/9/2004 | 107.70 | 12.40 | 95.30 |
| P-5 | 5/3/2004 | 107.70 | 10.26 | 97.44 |
| P-5 | 7/19/2004 | 107.70 | 22.41 | 85.29 |
| P-5 | 11/8/2004 | 107.70 | 11.27 | 96.43 |
| P-5 | 1/31/2005 | 107.70 | 9.33 | 98.37 |
| P-5 | 5/16/2005 | 107.70 | 8.63 | 99.07 |
| P-5 | 8/16/2005 | 107.70 | 9.96 | 97.74 |
| P-5 | 11/16/2005 | 107.70 | 10.82 | 96.88 |
| P-5 | 2/14/2006 | 107.70 | 7.78 | 99.92 |
| P-5 | 5/8/2006 | 107.70 | 9.55 | 98.15 |
| P-5 | 8/7/2006 | 107.70 | 9.20 | 98.50 |
| P-5 | 11/6/2006 | 107.70 | 9.39 | 98.31 |
| P-5 | 1/25/2007 | 107.70 | 10.57 | 97.13 |
| P-5 | 5/14/2007 | 107.70 | 9.64 | 98.06 |
| P-5 | 8/3/2007 | 107.70 | 9.48 | 98.22 |
| P-5 | 11/5/2007 | 107.70 | 9.85 | 97.85 |
| P-5 | 1/28/2008 | 107.70 | 9.72 | 97.98 |
| P-5 | 5/5/2008 | 107.70 | 8.49 | 99.21 |
| P-5 | 8/4/2008 | 107.70 | 9.21 | 98.49 |
| P-5 | 11/10/2008 | 107.70 | 11.60 | 96.10 |
| P-5 | 2/13/2009 | 107.70 | 11.82 | 95.88 |
| P-5 | 5/14/2009 | 107.70 | 11.32 | 96.38 |
| P-5 | 8/5/2009 | 107.70 | 11.30 | 96.40 |
| P-5 | 10/29/2009 | 107.70 | 11.48 | 96.22 |
| P-5 | 1/25/2010 | 107.70 | 12.38 | 95.32 |
| P-5 | 5/12/2010 | 107.70 | 10.42 | 97.28 |
| P-5 | 8/2/2010 | 107.70 | 10.28 | 97.42 |
| P-5 | 1/24/2011 | 107.70 | 10.68 | 97.02 |
| P-5 | 1/30/2012 | 107.70 | 10.69 | 97.01 |
| P-5 | 1/28/2013 | 107.70 | 11.25 | 96.45 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| ATKINSON-1 | 01/22/98 | <0.01 | -- | 27 | 50 | <0.01 | <0.01 |
| ATKINSON-1 | 01/19/99 | <0.01 | -- | 30 | 50 | <0.01 | <0.01 |
| ATKINSON-1 | 01/21/00 | <0.01 | -- | 30 | 46 | <0.01 | <0.010 |
| ATKINSON-1 | 01/12/01 | <0.01 | -- | 27 | 36 | <0.01 | <0.010 |
| ATKINSON-1 | 01/14/02 | <0.01 | -- | 24 | 44 | <0.01 | <0.010 |
| ATKINSON-1 | 02/10/03 | <0.01 | -- | 27 | 43 | <0.01 | <0.005 |
| ATKINSON-1 | 02/09/04 | <0.01 | -- | 31 | 38 | <0.01 | 0.005 |
| ATKINSON-1 | 01/31/05 | <0.01 | -- | 30 | -- | 0.01 | <0.005 |
| ATKINSON-1 | 02/15/06 | <0.01 | -- | 42 | -- | <0.01 | <0.005 |
| ATKINSON-1 | 01/25/07 | <0.01 | -- | 33.7 | -- | <0.01 | 0.006 |
| ATKINSON-1 | 01/28/08 | <0.01 | <0.010 | 45.7 | -- | <0.02 | 0.007 |
| ATKINSON-1 | 02/13/09 | <0.01 | 0.011 | 38.6 | -- | <0.02 | 0.006 |
| ATKINSON-1 | 01/25/10 | <0.01 | <0.010 | 40.3 | -- | <0.02 | 0.006 |
| ATKINSON-1 | 01/24/11 | 0.00128 | <0.010 | 49.6 | -- | <0.02 | 0.007 |
| **ATKINSON-1** | **01/28/13** | **0.00115** | **<0.010** | **--** | **--** | **--** | **0.006** |
| | | | | | | | |
| COX-2 | 01/19/98 | <0.01 | -- | 20 | 44 | <0.01 | <0.01 |
| COX-2 | 04/13/98 | <0.01 | -- | 23 | 35 | <0.01 | -- |
| COX-2 | 07/13/98 | <0.01 | -- | 21 | 37 | <0.01 | -- |
| COX-2 | 10/12/98 | <0.01 | -- | 22 | 47 | <0.01 | -- |
| COX-2 | 01/19/99 | <0.01 | -- | 21 | 45 | <0.01 | <0.01 |
| COX-2 | 04/22/99 | <0.01 | -- | 24 | 47 | <0.01 | -- |
| COX-2 | 07/19/99 | <0.01 | -- | 25 | 47 | <0.01 | -- |
| COX-2 | 10/18/99 | <0.01 | -- | 23 | 50 | <0.01 | -- |
| COX-2 | 01/21/00 | <0.01 | -- | 23 | 46 | 0.01 | <0.010 |
| COX-2 | 04/19/00 | <0.01 | -- | 23 | 45 | <0.01 | -- |
| COX-2 | 07/17/00 | <0.01 | -- | 28 | 47 | <0.01 | -- |
| COX-2 | 10/16/00 | <0.01 | -- | 25 | 48 | <0.01 | -- |
| COX-2 | 01/12/01 | <0.01 | -- | 25 | 45 | <0.01 | <0.010 |
| COX-2 | 04/16/01 | <0.01 | -- | 24 | 45 | <0.01 | -- |
| COX-2 | 07/16/01 | <0.01 | -- | 28 | 45 | <0.01 | -- |
| COX-2 | 10/15/01 | <0.01 | -- | 28 | 54 | <0.01 | -- |
| COX-2 | 01/14/02 | <0.01 | -- | 22 | 61 | <0.01 | <0.010 |
| COX-2 | 04/15/02 | <0.01 | -- | 24 | 49 | <0.01 | -- |
| COX-2 | 07/08/02 | <0.01 | -- | 27 | 49 | <0.01 | -- |
| COX-2 | 11/04/02 | <0.01 | -- | 31 | 53 | <0.01 | -- |
| COX-2 | 02/10/03 | <0.01 | -- | 29 | 50 | <0.01 | <0.005 |
| COX-2 | 05/05/03 | <0.01 | -- | 32 | 51 | <0.01 | -- |
| COX-2 | 08/11/03 | <0.01 | -- | 31 | 55 | <0.01 | -- |
| COX-2 | 11/14/03 | <0.01 | -- | 31 | 48 | <0.01 | -- |
| COX-2 | 02/09/04 | <0.01 | -- | 32 | 49 | <0.01 | <0.005 |
| COX-2 | 05/04/04 | <0.01 | -- | 53 | 60 | <0.01 | -- |
| COX-2 | 07/19/04 | <0.01 | -- | 29 | 56 | <0.01 | -- |
| COX-2 | 01/31/05 | <0.01 | -- | 32 | -- | <0.01 | <0.005 |
| COX-2 | 08/16/05 | <0.01 | -- | 36 | -- | <0.01 | <0.005 |
| COX-2 | 02/15/06 | <0.01 | -- | 37 | -- | <0.01 | <0.005 |
| COX-2 | 08/07/06 | <0.01 | -- | 34 | -- | 0.03 | <0.005 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| COX-2 | 01/25/07 | <0.01 | -- | 34.4 | -- | <0.01 | <0.005 |
| COX-2 | 08/03/07 | <0.01 | <0.010 | 35.5 | -- | <0.01 | <0.005 |
| COX-2 | 01/28/08 | <0.01 | <0.010 | 43.7 | -- | <0.02 | <0.005 |
| COX-2 | 02/13/09 | <0.01 | 0.012 | 41.5 | -- | <0.02 | <0.005 |
| COX-2 | 01/25/10 | <0.01 | <0.010 | 42.2 | -- | <0.02 | <0.005 |
| COX-2 | 01/24/11 | 0.00222 | <0.010 | 45.1 | -- | 0.02 | <0.005 |
| COX-2 | 1/30/2012 | 0.00269 | <0.010 | 45.5 | -- | <0.02 | <0.005 |
| **COX-2** | **01/28/13** | **0.00260** | **<0.010** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| DIXON-2 | 01/02/98 | <0.01 | -- | 21 | 44 | <0.01 | <0.01 |
| DIXON-2 | 01/21/98 | <0.01 | -- | 22 | 47 | <0.01 | <0.01 |
| DIXON-2 | 02/25/98 | <0.01 | -- | 24 | 33 | <0.01 | <0.01 |
| DIXON-2 | 03/19/98 | <0.01 | -- | 27 | 40 | <0.01 | <0.01 |
| DIXON-2 | 04/13/98 | <0.01 | -- | 26 | 34 | <0.01 | <0.01 |
| DIXON-2 | 05/11/98 | <0.01 | -- | 21 | 35 | <0.01 | <0.01 |
| DIXON-2 | 06/15/98 | <0.01 | -- | 17 | 24 | <0.01 | <0.01 |
| DIXON-2 | 07/13/98 | <0.01 | -- | 17 | 27 | <0.01 | <0.01 |
| DIXON-2 | 08/17/98 | <0.01 | -- | 21 | 40 | <0.01 | <0.01 |
| DIXON-2 | 09/14/98 | <0.01 | -- | 24 | 38 | <0.01 | <0.01 |
| DIXON-2 | 10/12/98 | <0.01 | -- | 24 | 46 | <0.01 | <0.01 |
| DIXON-2 | 11/09/98 | <0.01 | -- | 24 | 46 | <0.01 | <0.01 |
| DIXON-2 | 12/07/98 | <0.01 | -- | 26 | 47 | <0.01 | <0.01 |
| DIXON-2 | 01/19/99 | <0.01 | -- | 24 | 45 | <0.01 | 0.01 |
| DIXON-2 | 02/16/99 | <0.01 | -- | 24 | 48 | <0.01 | <0.01 |
| DIXON-2 | 03/16/99 | <0.01 | -- | 24 | 43 | <0.01 | <0.01 |
| DIXON-2 | 04/22/99 | <0.01 | -- | 24 | 43 | <0.01 | <0.01 |
| DIXON-2 | 05/18/99 | <0.01 | -- | 30 | 46 | <0.01 | <0.01 |
| DIXON-2 | 06/22/99 | <0.01 | -- | 30 | 47 | <0.01 | <0.01 |
| DIXON-2 | 07/19/99 | <0.01 | -- | 28 | 52 | <0.01 | <0.01 |
| DIXON-2 | 08/17/99 | <0.01 | -- | 26 | 54 | <0.01 | <0.01 |
| DIXON-2 | 09/13/99 | <0.01 | -- | 26 | 54 | <0.01 | <0.01 |
| DIXON-2 | 10/18/99 | <0.01 | -- | 33 | 64 | <0.01 | <0.01 |
| DIXON-2 | 11/15/99 | <0.01 | -- | 33 | 55 | <0.01 | <0.01 |
| DIXON-2 | 12/13/99 | <0.01 | -- | 33 | 57 | <0.01 | <0.010 |
| DIXON-2 | 01/14/00 | <0.01 | -- | 33 | 54 | <0.01 | <0.010 |
| DIXON-2 | 02/11/00 | <0.01 | -- | 29 | 51 | <0.01 | <0.010 |
| DIXON-2 | 03/14/00 | <0.01 | -- | 25 | 50 | <0.01 | <0.010 |
| DIXON-2 | 04/19/00 | <0.01 | -- | 30 | 48 | <0.01 | <0.010 |
| DIXON-2 | 05/24/00 | <0.01 | -- | 28 | 51 | <0.01 | <0.010 |
| DIXON-2 | 06/19/00 | <0.01 | -- | 31 | 54 | <0.01 | <0.010 |
| DIXON-2 | 07/17/00 | <0.01 | -- | 32 | 55 | <0.01 | <0.010 |
| DIXON-2 | 08/14/00 | <0.01 | -- | 16 | 63 | <0.01 | <0.010 |
| DIXON-2 | 09/18/00 | <0.01 | -- | 36 | 57 | <0.01 | <0.010 |
| DIXON-2 | 10/16/00 | <0.01 | -- | 28 | 58 | <0.01 | <0.010 |
| DIXON-2 | 11/13/00 | <0.01 | -- | 37 | 57 | <0.01 | <0.010 |
| DIXON-2 | 12/11/00 | <0.01 | -- | 29 | 47 | <0.01 | <0.010 |
| DIXON-2 | 01/12/01 | <0.01 | -- | 31 | 46 | <0.01 | <0.010 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| DIXON-2 | 02/12/01 | <0.01 | -- | 24 | 45 | <0.01 | <0.010 |
| DIXON-2 | 03/12/01 | <0.01 | -- | 27 | 13 | <0.01 | <0.010 |
| DIXON-2 | 04/16/01 | <0.01 | -- | 28 | 45 | <0.01 | <0.010 |
| DIXON-2 | 05/14/01 | <0.01 | -- | 29 | 46 | <0.01 | <0.010 |
| DIXON-2 | 06/18/01 | <0.01 | -- | 33 | 52 | <0.01 | <0.010 |
| DIXON-2 | 07/16/01 | <0.01 | -- | 35 | 52 | <0.01 | <0.010 |
| DIXON-2 | 08/13/01 | <0.01 | -- | 33 | 59 | <0.01 | <0.010 |
| DIXON-2 | 09/17/01 | <0.01 | -- | 35 | 60 | <0.01 | <0.010 |
| DIXON-2 | 10/15/01 | <0.01 | -- | 34 | 62 | <0.01 | <0.010 |
| DIXON-2 | 11/12/01 | <0.01 | -- | 30 | 59 | <0.01 | <0.010 |
| DIXON-2 | 12/10/01 | <0.01 | -- | 32 | 59 | <0.01 | <0.010 |
| DIXON-2 | 01/14/02 | <0.01 | -- | 28 | 70 | <0.01 | <0.010 |
| DIXON-2 | 02/18/02 | <0.01 | -- | 31 | 58 | <0.01 | <0.010 |
| DIXON-2 | 03/12/02 | <0.01 | -- | 31 | 56 | <0.01 | <0.010 |
| DIXON-2 | 04/15/02 | <0.01 | -- | 26 | 48 | <0.01 | <0.010 |
| DIXON-2 | 07/08/02 | <0.01 | -- | 30 | 54 | <0.01 | <0.005 |
| DIXON-2 | 11/04/02 | <0.01 | -- | 40 | 73 | <0.01 | <0.005 |
| DIXON-2 | 02/10/03 | <0.01 | -- | 37 | 62 | <0.01 | <0.005 |
| DIXON-2 | 05/05/03 | <0.01 | -- | 38 | 57 | <0.01 | <0.005 |
| DIXON-2 | 08/11/03 | <0.01 | -- | 34 | 65 | <0.01 | <0.005 |
| DIXON-2 | 11/14/03 | <0.01 | -- | 39 | 62 | <0.01 | <0.005 |
| DIXON-2 | 02/09/04 | <0.01 | -- | 38 | 60 | <0.01 | <0.005 |
| DIXON-2 | 05/04/04 | <0.01 | -- | 15 | 39 | <0.01 | <0.005 |
| DIXON-2 | 07/19/04 | <0.01 | -- | 30 | 64 | <0.01 | <0.005 |
| DIXON-2 | 01/31/05 | <0.01 | -- | 37 | -- | <0.01 | <0.005 |
| DIXON-2 | 08/16/05 | <0.01 | -- | 39 | -- | <0.01 | <0.005 |
| DIXON-2 | 02/15/06 | <0.01 | -- | 45 | -- | <0.01 | <0.005 |
| DIXON-2 | 08/07/06 | <0.01 | -- | 38 | -- | <0.01 | <0.005 |
| DIXON-2 | 01/25/07 | <0.01 | -- | 37.3 | -- | <0.01 | <0.005 |
| DIXON-2 | 08/03/07 | <0.01 | <0.010 | 38 | -- | <0.01 | <0.005 |
| DIXON-2 | 01/28/08 | <0.01 | 0.011 | 50.2 | -- | <0.02 | <0.005 |
| DIXON-2 | 02/13/09 | <0.01 | 0.02 | 39.8 | -- | <0.02 | <0.005 |
| DIXON-2 | 01/25/10 | <0.01 | <0.010 | 42.3 | -- | <0.02 | <0.005 |
| DIXON-2 | 01/24/11 | 0.00232 | 0.010 | 40.0 | -- | <0.02 | <0.005 |
| DIXON-2 | 1/30/2012 | 0.00263 | <0.010 | 37.2 | -- | <0.02 | <0.005 |
| **DIXON-2** | **01/28/13** | **0.00234** | **<0.010** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| ELLIOT-2 | 01/22/98 | <0.01 | -- | 5 | 16 | <0.01 | <0.01 |
| ELLIOT-2 | 04/13/98 | <0.01 | -- | 8 | 11 | <0.01 | -- |
| ELLIOT-2 | 07/13/98 | <0.01 | -- | 5 | 13 | <0.01 | -- |
| ELLIOT-2 | 10/12/98 | <0.01 | -- | 5 | 16 | <0.01 | -- |
| ELLIOT-2 | 01/19/99 | <0.01 | -- | 5 | 15 | <0.01 | <0.01 |
| ELLIOT-2 | 04/22/99 | <0.01 | -- | 6 | 15 | <0.01 | -- |
| ELLIOT-2 | 07/19/99 | <0.01 | -- | 8 | 15 | <0.01 | -- |
| ELLIOT-2 | 01/14/00 | <0.01 | -- | 5 | 15 | <0.01 | <0.010 |
| ELLIOT-2 | 04/19/00 | <0.01 | -- | 5 | 14 | <0.01 | -- |
| ELLIOT-2 | 07/17/00 | <0.01 | -- | 8 | 14 | <0.01 | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| ELLIOT-2 | 10/16/00 | <0.01 | -- | 4 | 14 | <0.01 | -- |
| ELLIOT-2 | 01/12/01 | <0.01 | -- | 5.8 | 13 | <0.01 | <0.010 |
| ELLIOT-2 | 04/16/01 | <0.01 | -- | 4.6 | 13 | <0.01 | -- |
| ELLIOT-2 | 07/16/01 | <0.01 | -- | 5.4 | 14 | <0.01 | -- |
| ELLIOT-2 | 10/15/01 | <0.01 | -- | 4.5 | 14 | <0.01 | -- |
| ELLIOT-2 | 11/12/01 | <0.01 | -- | 4.5 | 13 | <0.01 | -- |
| ELLIOT-2 | 01/14/02 | <0.01 | -- | 4 | 17 | <0.01 | <0.010 |
| ELLIOT-2 | 02/18/02 | <0.01 | -- | 4 | 14 | <0.01 | -- |
| ELLIOT-2 | 04/15/02 | <0.01 | -- | 4 | 14 | <0.01 | -- |
| ELLIOT-2 | 07/08/02 | <0.01 | -- | 6.2 | 13 | <0.01 | -- |
| ELLIOT-2 | 11/04/02 | <0.01 | -- | 4.4 | 13 | <0.01 | -- |
| ELLIOT-2 | 02/10/03 | <0.01 | -- | 3.7 | 13 | <0.01 | <0.005 |
| ELLIOT-2 | 05/05/03 | <0.01 | -- | 4.4 | 12 | <0.01 | -- |
| ELLIOT-2 | 08/11/03 | <0.01 | -- | 4.2 | 12 | <0.01 | -- |
| ELLIOT-2 | 11/14/03 | <0.01 | -- | 4.1 | 10 | <0.01 | -- |
| ELLIOT-2 | 02/09/04 | <0.01 | -- | 3.5 | 11 | <0.01 | 0.006 |
| ELLIOT-2 | 05/04/04 | <0.01 | -- | 3.9 | 13 | <0.01 | -- |
| ELLIOT-2 | 07/19/04 | <0.01 | -- | 3.4 | 13 | <0.01 | -- |
| ELLIOT-2 | 01/31/05 | <0.01 | -- | 3.5 | -- | <0.01 | 0.006 |
| ELLIOT-2 | 08/16/05 | <0.01 | -- | 4.7 | -- | <0.01 | 0.006 |
| ELLIOT-2 | 02/15/06 | <0.01 | -- | 4.3 | -- | <0.01 | <0.005 |
| ELLIOT-2 | 08/07/06 | <0.01 | -- | 4 | -- | <0.01 | <0.005 |
| ELLIOT-2 | 01/25/07 | <0.01 | -- | 3.2 | -- | <0.01 | 0.006 |
| ELLIOT-2 | 08/03/07 | <0.01 | <0.010 | 3.4 | -- | <0.01 | 0.006 |
| ELLIOT-2 | 01/28/08 | <0.01 | <0.010 | 3.8 | -- | <0.02 | 0.007 |
| ELLIOT-2 | 02/13/09 | <0.01 | <0.010 | 3.6 | -- | <0.02 | 0.007 |
| ELLIOT-2 | 01/25/10 | <0.01 | <0.010 | 3.6 | -- | <0.02 | 0.006 |
| ELLIOT-2 | 01/24/11 | 0.00313 | <0.010 | 4.5 | -- | <0.02 | 0.007 |
| ELLIOT-2 | 1/30/2012 | 0.00394 | <0.010 | 4.8 | -- | <0.02 | 0.006 |
| **ELLIOT-2** | **01/28/13** | **0.00330** | **<0.010** | **--** | **--** | **--** | **0.006** |
| | | | | | | | |
| ENCOMIO-2 | 01/22/98 | <0.01 | -- | 5 | 19 | <0.01 | <0.01 |
| ENCOMIO-2 | 02/25/98 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 03/19/98 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 04/13/98 | <0.01 | -- | 9 | 12 | <0.01 | -- |
| ENCOMIO-2 | 05/11/98 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 06/15/98 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 07/13/98 | <0.01 | -- | 5 | 14 | <0.01 | -- |
| ENCOMIO-2 | 08/17/98 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 09/14/98 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 10/12/98 | <0.01 | -- | 5 | 18 | <0.01 | -- |
| ENCOMIO-2 | 11/09/98 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 12/07/98 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 01/19/99 | <0.01 | -- | 7 | 18 | <0.01 | 0.01 |
| ENCOMIO-2 | 02/16/99 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 03/16/99 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 04/22/99 | <0.01 | -- | 7 | 18 | <0.01 | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| ENCOMIO-2 | 05/18/99 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 06/22/99 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 07/19/99 | <0.01 | -- | 8 | 17 | <0.01 | -- |
| ENCOMIO-2 | 08/23/99 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 09/13/99 | <0.01 | -- | -- | -- | -- | -- |
| ENCOMIO-2 | 10/18/99 | <0.01 | -- | 4 | 18 | <0.01 | -- |
| ENCOMIO-2 | 01/14/00 | <0.01 | -- | 8 | 19 | <0.01 | <0.010 |
| ENCOMIO-2 | 04/19/00 | <0.01 | -- | 6 | 17 | <0.01 | -- |
| ENCOMIO-2 | 07/17/00 | <0.01 | -- | 8 | 17 | <0.01 | -- |
| ENCOMIO-2 | 10/16/00 | <0.01 | -- | 13 | 17 | <0.01 | -- |
| ENCOMIO-2 | 01/12/01 | <0.01 | -- | 11 | 21 | <0.01 | <0.010 |
| ENCOMIO-2 | 04/16/01 | <0.01 | -- | 5.3 | 18 | <0.01 | -- |
| ENCOMIO-2 | 07/16/01 | <0.01 | -- | 4.7 | 17 | <0.01 | -- |
| ENCOMIO-2 | 10/15/01 | <0.01 | -- | 4 | 19 | <0.01 | -- |
| ENCOMIO-2 | 01/14/02 | <0.01 | -- | 5.6 | 24 | <0.01 | <0.010 |
| ENCOMIO-2 | 04/15/02 | <0.01 | -- | 3.8 | 18 | <0.01 | -- |
| ENCOMIO-2 | 07/08/02 | <0.01 | -- | 5.9 | 18 | 0.01 | -- |
| ENCOMIO-2 | 11/04/02 | <0.01 | -- | 6.7 | 2.1 | <0.01 | -- |
| ENCOMIO-2 | 02/10/03 | <0.01 | -- | 7 | 19 | <0.01 | <0.005 |
| ENCOMIO-2 | 05/05/03 | <0.01 | -- | 6.8 | 19 | <0.01 | -- |
| ENCOMIO-2 | 08/11/03 | <0.01 | -- | 5.5 | 20 | <0.01 | -- |
| ENCOMIO-2 | 11/14/03 | <0.01 | -- | 8.1 | 18 | <0.01 | -- |
| ENCOMIO-2 | 02/09/04 | <0.01 | -- | 7.6 | 19 | <0.01 | 0.008 |
| ENCOMIO-2 | 05/04/04 | <0.01 | -- | 4.3 | 21 | <0.01 | -- |
| ENCOMIO-2 | 07/19/04 | <0.01 | -- | 3.9 | 19 | <0.01 | -- |
| ENCOMIO-2 | 01/31/05 | <0.01 | -- | 7.9 | -- | <0.01 | 0.007 |
| ENCOMIO-2 | 08/16/05 | <0.01 | -- | 6.6 | -- | <0.01 | 0.007 |
| ENCOMIO-2 | 02/15/06 | <0.01 | -- | 6 | -- | <0.01 | <0.005 |
| ENCOMIO-2 | 08/07/06 | <0.01 | -- | 6.4 | -- | <0.01 | <0.005 |
| ENCOMIO-2 | 01/25/07 | <0.01 | -- | 8.3 | -- | <0.01 | 0.007 |
| ENCOMIO-2 | 08/03/07 | <0.01 | <0.010 | 5.5 | -- | <0.01 | 0.006 |
| ENCOMIO-2 | 01/28/08 | <0.01 | <0.010 | 12.2 | -- | <0.02 | 0.008 |
| ENCOMIO-2 | 02/13/09 | <0.01 | 0.01 | 11 | -- | <0.02 | 0.007 |
| ENCOMIO-2 | 01/25/10 | <0.01 | <0.010 | 12.8 | -- | <0.02 | 0.007 |
| ENCOMIO-2 | 01/24/11 | 0.00499 | <0.010 | 12.0 | -- | <0.02 | 0.008 |
| ENCOMIO-2 | 1/30/2012 | 0.00540 | <0.010 | 10.0 | -- | <0.02 | 0.006 |
| **ENCOMIO-2** | **01/28/13** | **0.00516** | **<0.010** | **--** | **--** | **--** | **0.007** |
| | | | | | | | |
| GW-1 | 01/19/98 | 0.18 | -- | 90 | 64 | <0.01 | 1.5 |
| GW-1 | 01/20/99 | 0.21 | -- | 72 | 56 | <0.01 | 6.8 |
| GW-1 | 02/18/99 | 0.16 | -- | -- | -- | -- | 2.1 |
| GW-1 | 03/19/99 | 0.16 | -- | -- | -- | -- | 3.1 |
| GW-1 | 04/26/99 | 0.13 | -- | -- | -- | -- | 1.6 |
| GW-1 | 05/19/99 | 0.11 | -- | -- | -- | -- | 1.4 |
| GW-1 | 06/25/99 | 0.09 | -- | 116 | -- | <0.01 | 0.92 |
| GW-1 | 07/22/99 | 0.17 | -- | -- | -- | -- | 2.3 |
| GW-1 | 07/30/99 | 0.11 | -- | -- | -- | -- | 1.2 |

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**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-1 | 08/19/99 | 0.16 | -- | 115 | -- | -- | 2.2 |
| GW-1 | 10/22/99 | <0.01 | -- | 180 | -- | -- | 0.65 |
| GW-1 | 01/18/00 | <0.01 | -- | 1 | 187 | 13.5 | 0.545 |
| GW-1 | 02/14/00 | <0.01 | -- | 30 | -- | -- | 0.665 |
| GW-1 | 03/16/00 | 0.02 | -- | 27 | -- | -- | 0.205 |
| GW-1 | 04/20/00 | <0.01 | -- | 86 | -- | -- | 0.416 |
| GW-1 | 06/21/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 07/20/00 | <0.01 | -- | 228 | -- | -- | 0.935 |
| GW-1 | 08/16/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 09/20/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 10/18/00 | <0.01 | -- | 172 | 74 | 2.2 | 0.893 |
| GW-1 | 11/15/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 12/13/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 01/18/01 | <0.01 | -- | 166 | 63 | 2.8 | <0.010 |
| GW-1 | 02/14/01 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 03/16/01 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 04/18/01 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 05/15/01 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 07/18/01 | 0.02 | -- | -- | -- | -- | 1.32 |
| GW-1 | 08/15/01 | <0.01 | -- | -- | -- | -- | 0.712 |
| GW-1 | 09/18/01 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 10/17/01 | <0.01 | -- | -- | -- | -- | 1.19 |
| GW-1 | 01/16/02 | <0.01 | -- | 148 | 70 | 1.1 | 0.805 |
| GW-1 | 04/17/02 | <0.01 | -- | -- | -- | -- | -- |
| GW-1 | 07/10/02 | <0.01 | -- | -- | -- | -- | 0.632 |
| GW-1 | 11/04/02 | 0.02 | -- | -- | -- | -- | 1.1 |
| GW-1 | 02/17/03 | <0.01 | -- | 220 | 65 | 1.1 | 0.79 |
| GW-1 | 05/07/03 | <0.01 | -- | -- | -- | -- | 0.45 |
| GW-1 | 08/14/03 | <0.01 | -- | -- | -- | -- | 0.39 |
| GW-1 | 11/18/03 | <0.01 | -- | -- | -- | -- | 0.52 |
| GW-1 | 02/11/04 | <0.01 | -- | 226 | 69 | 0.04 | 0.38 |
| GW-1 | 05/04/04 | <0.01 | -- | -- | -- | -- | 1.2 |
| GW-1 | 07/21/04 | <0.01 | -- | -- | -- | -- | 0.95 |
| GW-1 | 11/11/04 | <0.01 | -- | 214 | -- | 2 | 1.2 |
| GW-1 | 02/01/05 | <0.01 | -- | 192 | -- | 1 | 1.3 |
| GW-1 | 05/17/05 | <0.01 | -- | 226 | -- | 0.39 | 0.4 |
| GW-1 | 08/17/05 | <0.01 | -- | 223 | -- | 1.34 | 0.55 |
| GW-1 | 11/16/05 | <0.01 | -- | 196 | -- | 1.6 | 0.56 |
| GW-1 | 02/17/06 | <0.01 | -- | 207 | -- | 0.64 | 0.63 |
| GW-1 | 05/08/06 | 0.01 | -- | 185 | -- | 0.66 | 0.66 |
| GW-1 | 08/08/06 | <0.01 | -- | 187 | -- | 1 | 0.5 |
| GW-1 | 11/07/06 | 0.01 | -- | 247 | -- | 1 | 0.5 |
| GW-1 | 01/26/07 | 0.01 | -- | 191 | -- | 0.32 | 0.39 |
| GW-1 | 05/15/07 | 0.02 | -- | 179 | -- | 0.35 | 0.562 |
| GW-1 | 08/06/07 | 0.04 | 0.096 | 173 | -- | 1.26 | 0.64 |
| GW-1 | 10/15/07 | <0.01 | -- | 2760 | -- | 7 | <0.005 |
| GW-1 | 10/22/07 | <0.01 | -- | 4440 | -- | 22.8 | <0.005 |

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| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-1 | 10/30/07 | <0.01 | -- | 4600 | 53.2 | 32.5 | <0.005 |
| GW-1 | 11/06/07 | <0.01 | <0.010 | 4100 | -- | 40.1 | <0.005 |
| GW-1 | 12/03/07 | <0.01 | -- | 3030 | -- | 32.5 | <0.005 |
| GW-1 | 02/08/08 | <0.01 | <0.010 | 1630 | -- | 15 | <0.005 |
| GW-1 | 05/05/08 | -- | <0.010 | 1710 | -- | 9.58 | <0.005 |
| GW-1 | 08/04/08 | -- | <0.010 | 1880 | -- | 9.25 | <0.005 |
| GW-1 | 11/10/08 | -- | 0.013 | 1670 | -- | 5.89 | <0.005 |
| GW-1 | 02/13/09 | <0.01 | <0.010 | 1530 | -- | 0.05 | 0.006 |
| GW-1 | 5/14/09 | -- | <0.010 | 1090 | -- | 0.03 | 0.014 |
| GW-1 | 08/05/09 | -- | <0.010 | 1050 | -- | <0.02 | 0.019 |
| GW-1 | 10/29/09 | -- | <0.010 | 845 | -- | 0.24 | 0.009 |
| GW-1 | 01/25/10 | <0.01 | <0.010 | 794 | -- | 0.02 | 0.042 |
| GW-1 | 05/12/10 | -- | 0.014 | 685 | -- | 0.10 | <0.005 |
| GW-1 | 8/2/2010 | -- | 0.012 | 564 | -- | 0.04 | 0.038 |
| GW-1 | 01/24/11 | <0.00050 | <0.010 | 362 | -- | 0.02 | 0.067 |
| GW-1 | 8/1/2011 | -- | <0.010 | 318 | -- | <0.02 | 0.064 |
| GW-1 | 1/30/2012 | 0.00245 | <0.010 | 280 | -- | <0.02 | 0.070 |
| **GW-1** | **01/28/13** | **<0.00050** | **<0.010** | **--** | **--** | **--** | **0.027** |
| | | | | | | | |
| GW-15A | 01/23/98 | 1.1 | -- | 103 | 76 | <0.01 | <0.01 |
| GW-15A | 07/15/98 | 0.78 | -- | 110 | 57 | <0.01 | -- |
| GW-15A | 08/19/98 | 0.27 | -- | -- | -- | -- | -- |
| GW-15A | 09/14/98 | 0.29 | -- | -- | -- | -- | -- |
| GW-15A | 10/14/98 | 0.45 | -- | 125 | 73 | <0.01 | -- |
| GW-15A | 11/11/98 | 0.23 | -- | -- | -- | -- | -- |
| GW-15A | 12/08/98 | 0.12 | -- | -- | -- | -- | -- |
| GW-15A | 01/19/99 | 0.11 | -- | 122 | 71 | <0.01 | <0.01 |
| GW-15A | 02/17/99 | 0.5 | -- | -- | -- | -- | -- |
| GW-15A | 03/17/99 | 1.4 | -- | -- | -- | -- | -- |
| GW-15A | 05/19/99 | 0.21 | -- | -- | -- | -- | -- |
| GW-15A | 06/24/99 | 0.2 | -- | 195 | -- | <0.01 | <0.01 |
| GW-15A | 07/20/99 | 0.15 | -- | 290 | 81 | 0.07 | <0.01 |
| GW-15A | 08/18/99 | 0.45 | -- | 203 | -- | -- | -- |
| GW-15A | 09/15/99 | 0.01 | -- | 112 | -- | <0.01 | 0.012 |
| GW-15A | 10/21/99 | 0.41 | -- | 280 | 80 | 0.08 | <0.01 |
| GW-15A | 11/17/99 | 0.14 | -- | -- | -- | -- | -- |
| GW-15A | 12/15/99 | 0.32 | -- | -- | -- | -- | -- |
| GW-15A | 01/25/00 | 1 | -- | 324 | 98 | 0.05 | <0.010 |
| GW-15A | 02/14/00 | 0.47 | -- | 340 | -- | -- | -- |
| GW-15A | 03/15/00 | 0.87 | -- | 290 | -- | -- | -- |
| GW-15A | 04/20/00 | 1.2 | -- | 348 | 93 | <0.01 | <0.010 |
| GW-15A | 05/22/00 | 1.11 | -- | 396 | -- | -- | -- |
| GW-15A | 06/21/00 | 0.85 | -- | 378 | -- | -- | -- |
| GW-15A | 07/19/00 | 0.65 | -- | 356 | 97 | <0.01 | <0.010 |
| GW-15A | 08/16/00 | 0.65 | -- | 216 | -- | -- | -- |
| GW-15A | 09/18/00 | 0.16 | -- | 296 | -- | -- | -- |
| GW-15A | 10/02/00 | 0.18 | -- | -- | -- | -- | -- |

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| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-15A | 10/16/00 | 0.14 | -- | 316 | 87 | 0.04 | <0.010 |
| GW-15A | 11/01/00 | 0.14 | -- | -- | -- | -- | -- |
| GW-15A | 11/13/00 | 0.13 | -- | 317 | 91 | 0.04 | <0.010 |
| GW-15A | 12/01/00 | 0.12 | -- | -- | -- | -- | -- |
| GW-15A | 12/11/00 | 0.13 | -- | 299 | 92 | 0.04 | <0.010 |
| GW-15A | 01/02/01 | 0.12 | -- | -- | -- | -- | -- |
| GW-15A | 01/12/01 | 0.04 | -- | 313 | 91 | 0.05 | <0.010 |
| GW-15A | 02/02/01 | 0.1 | -- | -- | -- | -- | -- |
| GW-15A | 02/14/01 | 0.06 | -- | 292 | 95 | 0.05 | <0.010 |
| GW-15A | 03/01/01 | 0.1 | -- | -- | -- | -- | -- |
| GW-15A | 03/12/01 | 0.09 | -- | 310 | 97 | 0.04 | <0.010 |
| GW-15A | 04/02/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-15A | 04/16/01 | 0.06 | -- | 339 | 98 | 0.04 | <0.010 |
| GW-15A | 05/01/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-15A | 05/16/01 | 0.06 | -- | 320 | 100 | 0.04 | <0.010 |
| GW-15A | 06/04/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-15A | 06/18/01 | 0.04 | -- | 286 | 92 | 0.02 | <0.010 |
| GW-15A | 07/02/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-15A | 07/16/01 | 0.04 | -- | 291 | 94 | 0.02 | <0.010 |
| GW-15A | 08/02/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-15A | 08/13/01 | 0.05 | -- | 333 | 100 | 0.01 | <0.010 |
| GW-15A | 09/10/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-15A | 09/19/01 | 0.03 | -- | 400 | 110 | <0.01 | <0.010 |
| GW-15A | 10/01/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-15A | 10/16/01 | 0.07 | -- | 304 | 121 | <0.01 | <0.010 |
| GW-15A | 11/01/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-15A | 11/12/01 | 0.1 | -- | 314 | 102 | <0.01 | <0.010 |
| GW-15A | 12/03/01 | 0.08 | -- | -- | -- | -- | -- |
| GW-15A | 12/10/01 | 0.12 | -- | 305 | 104 | <0.01 | <0.010 |
| GW-15A | 01/02/02 | 0.10 | -- | -- | -- | -- | -- |
| GW-15A | 01/14/02 | 0.15 | -- | 229 | 122 | <0.01 | <0.010 |
| GW-15A | 02/01/02 | 0.14 | -- | -- | -- | -- | -- |
| GW-15A | 02/18/02 | 0.17 | -- | 248 | 102 | <0.01 | <0.010 |
| GW-15A | 03/01/02 | 0.13 | -- | -- | -- | -- | -- |
| GW-15A | 03/13/02 | 0.11 | -- | 288 | 101 | <0.01 | <0.010 |
| GW-15A | 04/01/02 | 0.1 | -- | -- | -- | -- | -- |
| GW-15A | 04/15/02 | 0.09 | -- | 292 | 95 | <0.01 | <0.010 |
| GW-15A | 05/01/02 | 0.08 | -- | -- | -- | -- | -- |
| GW-15A | 05/20/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-15A | 06/03/02 | 0.06 | -- | -- | -- | -- | -- |
| GW-15A | 07/08/02 | 0.05 | -- | 272 | 93 | <0.01 | <0.005 |
| GW-15A | 08/19/02 | 0.05 | -- | -- | -- | -- | -- |
| GW-15A | 09/23/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-15A | 10/15/02 | 0.34 | -- | -- | -- | -- | -- |
| GW-15A | 11/04/02 | 0.45 | -- | 204 | 86 | <0.01 | <0.005 |
| GW-15A | 12/02/02 | 0.39 | -- | -- | -- | -- | -- |
| GW-15A | 01/23/03 | 0.1 | -- | -- | -- | -- | -- |

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**January 1998 through January 2013**
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| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-15A | 02/10/03 | 0.2 | -- | 205 | 76 | <0.01 | <0.005 |
| GW-15A | 03/06/03 | 0.14 | -- | -- | -- | -- | -- |
| GW-15A | 03/21/03 | 0.15 | -- | -- | -- | -- | -- |
| GW-15A | 04/21/03 | 0.12 | -- | -- | -- | -- | -- |
| GW-15A | 05/05/03 | 0.12 | -- | 215 | 77 | <0.01 | <0.005 |
| GW-15A | 06/10/03 | 0.09 | -- | -- | -- | -- | -- |
| GW-15A | 07/07/03 | 0.11 | -- | -- | -- | -- | -- |
| GW-15A | 08/11/03 | 0.1 | -- | 181 | 89 | <0.01 | <0.005 |
| GW-15A | 09/08/03 | 0.11 | -- | -- | -- | -- | -- |
| GW-15A | 10/03/03 | 0.1 | -- | -- | -- | -- | -- |
| GW-15A | 11/14/03 | 0.09 | -- | 227 | 78 | <0.01 | <0.005 |
| GW-15A | 12/10/03 | 0.08 | -- | -- | -- | -- | -- |
| GW-15A | 01/05/04 | 0.05 | -- | -- | -- | -- | -- |
| GW-15A | 02/09/04 | 0.06 | -- | 231 | 90 | <0.01 | <0.005 |
| GW-15A | 03/08/04 | 0.06 | -- | -- | -- | -- | -- |
| GW-15A | 04/05/04 | 0.07 | -- | -- | -- | -- | -- |
| GW-15A | 05/03/04 | 0.1 | -- | 292 | 95 | <0.01 | <0.005 |
| GW-15A | 06/09/04 | 0.1 | -- | -- | -- | -- | -- |
| GW-15A | 07/19/04 | 0.11 | -- | 238 | 89 | <0.01 | <0.005 |
| GW-15A | 11/10/04 | 0.19 | -- | 278 | -- | 0.02 | <0.005 |
| GW-15A | 02/04/05 | 0.04 | -- | 278 | -- | 0.03 | <0.005 |
| GW-15A | 05/17/05 | 0.1 | -- | 266 | -- | <0.01 | <0.005 |
| GW-15A | 08/17/05 | 0.06 | -- | 248 | -- | <0.01 | <0.005 |
| GW-15A | 11/16/05 | 0.11 | -- | 277 | -- | <0.01 | <0.005 |
| GW-15A | 02/16/06 | 0.1 | -- | 276 | -- | <0.01 | <0.005 |
| GW-15A | 05/08/06 | 0.04 | -- | 232 | -- | <0.01 | <0.005 |
| GW-15A | 08/08/06 | 0.05 | -- | 212 | -- | <0.01 | <0.005 |
| GW-15A | 11/07/06 | 0.08 | -- | 211 | -- | <0.01 | <0.005 |
| GW-15A | 01/31/07 | 0.06 | -- | 210 | -- | <0.01 | <0.005 |
| GW-15A | 05/15/07 | 0.07 | -- | 231 | -- | <0.01 | <0.005 |
| GW-15A | 08/06/07 | 0.04 | 0.052 | 221 | -- | <0.01 | <0.005 |
| GW-15A | 11/05/07 | 0.04 | 0.068 | 235 | -- | <0.01 | <0.005 |
| GW-15A | 01/31/08 | 0.05 | 0.054 | 257 | -- | <0.02 | 0.006 |
| GW-15A | 05/05/08 | -- | 0.057 | 233 | -- | <0.02 | 0.005 |
| GW-15A | 08/04/08 | -- | 0.048 | 240 | -- | 0.03 | <0.005 |
| GW-15A | 11/10/08 | -- | 0.053 | 245 | -- | <0.02 | <0.005 |
| GW-15A | 02/13/09 | 0.02 | 0.028 | 241 | -- | 0.02 | <0.005 |
| GW-15A | 05/14/09 | -- | 0.04 | 255 | -- | <0.02 | 0.005 |
| GW-15A | 08/05/09 | -- | 0.063 | 234 | -- | <0.02 | <0.005 |
| GW-15A | 10/29/09 | -- | 0.054 | 245 | -- | <0.02 | <0.005 |
| GW-15A | 01/25/10 | 0.03 | 0.038 | 247 | -- | <0.02 | <0.005 |
| GW-15A | 05/12/10 | -- | 0.034 | 253 | -- | <0.02 | <0.005 |
| GW-15A | 8/2/2010 | -- | 0.077 | 230 | -- | <0.02 | 0.005 |
| GW-15A | 01/24/11 | 0.17 | 0.172 | 229 | -- | 0.02 | 0.006 |
| GW-15A | 8/1/2011 | -- | 0.124 | 250 | -- | <0.02 | <0.005 |
| GW-15A | 1/30/2012 | 0.067 | 0.068 | 246 | -- | <0.02 | 0.005 |
| **GW-15A** | **01/28/13** | **0.042** | **0.042** | **--** | **--** | **--** | **<0.005** |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-15B | 01/23/98 | 0.25 | -- | 80 | 68 | <0.01 | <0.01 |
| GW-15B | 07/15/98 | 0.1 | -- | 72 | 42 | <0.01 | -- |
| GW-15B | 08/19/98 | 0.09 | -- | -- | -- | -- | -- |
| GW-15B | 09/14/98 | 0.13 | -- | -- | -- | -- | -- |
| GW-15B | 10/14/98 | 0.04 | -- | 101 | 68 | <0.01 | -- |
| GW-15B | 11/11/98 | 0.03 | -- | -- | -- | -- | -- |
| GW-15B | 12/08/98 | 0.04 | -- | -- | -- | -- | -- |
| GW-15B | 01/19/99 | 0.02 | -- | 97 | 67 | <0.01 | <0.01 |
| GW-15B | 02/17/99 | 0.02 | -- | -- | -- | -- | -- |
| GW-15B | 03/17/99 | 0.08 | -- | -- | -- | -- | -- |
| GW-15B | 05/19/99 | 0.03 | -- | -- | -- | -- | -- |
| GW-15B | 06/24/99 | 0.02 | -- | 120 | -- | <0.01 | <0.01 |
| GW-15B | 07/20/99 | 0.03 | -- | 144 | 69 | <0.01 | <0.01 |
| GW-15B | 08/18/99 | 0.03 | -- | 155 | -- | -- | -- |
| GW-15B | 09/15/99 | 0.02 | -- | 190 | -- | <0.01 | <0.01 |
| GW-15B | 10/21/99 | 0.02 | -- | 180 | 68 | <0.01 | <0.01 |
| GW-15B | 11/17/99 | 0.04 | -- | -- | -- | -- | -- |
| GW-15B | 12/15/99 | 0.06 | -- | -- | -- | -- | -- |
| GW-15B | 01/25/00 | 0.04 | -- | 254 | 76 | <0.01 | <0.010 |
| GW-15B | 02/14/00 | 0.03 | -- | 184 | -- | -- | -- |
| GW-15B | 03/15/00 | 0.03 | -- | 220 | -- | -- | -- |
| GW-15B | 04/20/00 | 0.03 | -- | 261 | 71 | <0.01 | <0.010 |
| GW-15B | 05/22/00 | 0.03 | -- | 175 | -- | -- | -- |
| GW-15B | 06/21/00 | 0.01 | -- | 315 | -- | -- | -- |
| GW-15B | 07/19/00 | 0.02 | -- | 371 | 97 | <0.01 | <0.010 |
| GW-15B | 08/16/00 | 0.01 | -- | 300 | -- | -- | -- |
| GW-15B | 09/20/00 | 0.01 | -- | 277 | -- | -- | -- |
| GW-15B | 10/17/00 | 0.01 | -- | 233 | 78 | <0.01 | <0.010 |
| GW-15B | 11/15/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-15B | 12/12/00 | 0.02 | -- | -- | -- | -- | -- |
| GW-15B | 01/17/01 | <0.01 | -- | 234 | 75 | <0.01 | <0.010 |
| GW-15B | 02/14/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-15B | 03/12/01 | 0.07 | -- | -- | -- | -- | -- |
| GW-15B | 04/18/01 | 0.02 | -- | 306 | 79 | <0.01 | -- |
| GW-15B | 05/15/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-15B | 06/20/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-15B | 07/17/01 | 0.05 | -- | 146 | 67 | <0.01 | -- |
| GW-15B | 08/14/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-15B | 09/18/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-15B | 10/17/01 | 0.06 | -- | 114 | 66 | <0.01 | -- |
| GW-15B | 11/14/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-15B | 12/12/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-15B | 01/16/02 | 0.03 | -- | 167 | 86 | <0.01 | <0.010 |
| GW-15B | 02/20/02 | 0.03 | -- | -- | -- | -- | -- |
| GW-15B | 03/13/02 | 0.03 | -- | -- | -- | -- | -- |
| GW-15B | 04/16/02 | 0.02 | -- | 171 | 71 | <0.01 | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-15B | 07/10/02 | 0.03 | -- | 119 | 62 | <0.01 | -- |
| GW-15B | 11/05/02 | 0.05 | -- | 113 | 56 | <0.01 | -- |
| GW-15B | 02/13/03 | 0.05 | -- | 136 | 64 | <0.01 | <0.005 |
| GW-15B | 05/07/03 | 0.05 | -- | 106 | 57 | <0.01 | -- |
| GW-15B | 08/14/03 | 0.04 | -- | 100 | 57 | <0.01 | -- |
| GW-15B | 11/18/03 | 0.06 | -- | 99 | 48 | <0.01 | -- |
| GW-15B | 02/10/04 | 0.06 | -- | 97 | 50 | <0.01 | 0.008 |
| GW-15B | 05/04/04 | 0.09 | -- | 74 | 54 | <0.01 | -- |
| GW-15B | 07/20/04 | 0.07 | -- | 90 | 56 | <0.01 | -- |
| GW-15B | 11/10/04 | 0.04 | -- | 174 | -- | <0.01 | 0.007 |
| GW-15B | 02/04/05 | <0.01 | -- | 202 | -- | <0.01 | 0.007 |
| GW-15B | 05/17/05 | 0.04 | -- | 209 | -- | <0.01 | 0.007 |
| GW-15B | 08/17/05 | 0.02 | -- | 208 | -- | <0.01 | 0.007 |
| GW-15B | 11/16/05 | 0.01 | -- | 234 | -- | <0.01 | 0.007 |
| GW-15B | 02/16/06 | 0.01 | -- | 236 | -- | <0.01 | <0.005 |
| GW-15B | 05/08/06 | 0.02 | -- | 204 | -- | <0.01 | 0.007 |
| GW-15B | 08/08/06 | <0.01 | -- | 206 | -- | <0.01 | 0.015 |
| GW-15B | 11/07/06 | <0.01 | -- | 199 | -- | <0.01 | <0.005 |
| GW-15B | 01/31/07 | 0.01 | -- | 224 | -- | <0.01 | 0.007 |
| GW-15B | 05/15/07 | <0.01 | -- | 220 | -- | <0.01 | 0.006 |
| GW-15B | 08/06/07 | <0.01 | 0.012 | 214 | -- | <0.01 | 0.006 |
| GW-15B | 11/05/07 | <0.01 | <0.010 | 233 | -- | <0.01 | 0.005 |
| GW-15B | 01/31/08 | <0.01 | 0.015 | 262 | -- | <0.02 | 0.008 |
| GW-15B | 05/05/08 | -- | <0.010 | 219 | -- | <0.02 | 0.007 |
| GW-15B | 08/04/08 | -- | <0.010 | 215 | -- | <0.02 | 0.007 |
| GW-15B | 11/10/08 | -- | 0.011 | 214 | -- | <0.02 | 0.007 |
| GW-15B | 02/13/09 | 0.01 | 0.017 | 225 | -- | <0.02 | 0.007 |
| GW-15B | 5/14/09 | -- | 0.015 | 218 | -- | <0.02 | 0.006 |
| GW-15B | 08/05/09 | -- | 0.01 | 218 | -- | <0.02 | 0.007 |
| GW-15B | 10/29/09 | -- | 0.01 | 221 | -- | <0.02 | 0.007 |
| GW-15B | 01/25/10 | <0.01 | <0.010 | 239 | -- | <0.02 | 0.006 |
| GW-15B | 05/12/10 | -- | 0.014 | 231 | -- | <0.02 | 0.006 |
| GW-15B | 8/2/2010 | -- | 0.015 | 210 | -- | <0.02 | 0.007 |
| GW-15B | 01/24/11 | 0.0185 | 0.019 | 230 | -- | 0.02 | 0.008 |
| GW-15B | 8/1/2011 | -- | 0.033 | 226 | -- | <0.02 | 0.006 |
| GW-15B | 1/30/2012 | 0.107 | 0.110 | 209 | -- | <0.02 | 0.006 |
| **GW-15B** | **01/28/13** | **0.0796** | **0.080** | **--** | **--** | **--** | **0.006** |
| | | | | | | | |
| GW-15C | 01/23/98 | 0.36 | -- | 105 | 71 | <0.01 | <0.01 |
| GW-15C | 07/15/98 | 1.83 | -- | 107 | 59 | <0.01 | -- |
| GW-15C | 08/19/98 | 0.7 | -- | -- | -- | -- | -- |
| GW-15C | 09/14/98 | 0.48 | -- | -- | -- | -- | -- |
| GW-15C | 10/14/98 | 0.32 | -- | 112 | 75 | <0.01 | -- |
| GW-15C | 11/11/98 | 0.36 | -- | -- | -- | -- | -- |
| GW-15C | 12/08/98 | 0.32 | -- | -- | -- | -- | -- |
| GW-15C | 01/19/99 | 0.25 | -- | 107 | 72 | <0.01 | <0.01 |
| GW-15C | 02/17/99 | 0.22 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-15C | 03/17/99 | 0.2 | -- | -- | -- | -- | -- |
| GW-15C | 05/19/99 | 0.16 | -- | -- | -- | -- | -- |
| GW-15C | 06/24/99 | 0.13 | -- | 130 | -- | <0.01 | <0.01 |
| GW-15C | 07/20/99 | 0.19 | -- | 150 | 67 | <0.01 | 0.01 |
| GW-15C | 08/18/99 | 0.12 | -- | 160 | -- | -- | -- |
| GW-15C | 09/15/99 | 0.12 | -- | 210 | -- | <0.01 | <0.01 |
| GW-15C | 10/21/99 | 0.08 | -- | 210 | 68 | <0.01 | <0.01 |
| GW-15C | 11/17/99 | 0.06 | -- | -- | -- | -- | -- |
| GW-15C | 12/15/99 | 0.07 | -- | -- | -- | -- | <0.010 |
| GW-15C | 01/25/00 | 0.07 | -- | 310 | 78 | <0.01 | <0.010 |
| GW-15C | 02/14/00 | 0.05 | -- | 300 | -- | -- | -- |
| GW-15C | 03/15/00 | 0.05 | -- | 370 | -- | -- | -- |
| GW-15C | 04/20/00 | 0.09 | -- | 370 | 85 | <0.01 | <0.010 |
| GW-15C | 05/22/00 | 0.11 | -- | 236 | -- | -- | -- |
| GW-15C | 06/21/00 | 0.07 | -- | 375 | -- | -- | -- |
| GW-15C | 07/19/00 | 0.04 | -- | 382 | 94 | <0.01 | <0.010 |
| GW-15C | 08/16/00 | 0.06 | -- | 365 | -- | -- | -- |
| GW-15C | 09/20/00 | 0.03 | -- | 370 | -- | -- | -- |
| GW-15C | 10/17/00 | <0.01 | -- | 616 | 132 | 0.04 | <0.010 |
| GW-15C | 11/15/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-15C | 12/12/00 | 0.02 | -- | -- | -- | -- | -- |
| GW-15C | 01/17/01 | <0.01 | -- | 1000 | 176 | <0.01 | <0.010 |
| GW-15C | 02/12/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-15C | 03/12/01 | <0.01 | -- | -- | -- | -- | -- |
| GW-15C | 04/18/01 | 0.02 | -- | 965 | 187 | <0.01 | -- |
| GW-15C | 05/15/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-15C | 06/20/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-15C | 07/17/01 | 0.02 | -- | 717 | 158 | <0.01 | -- |
| GW-15C | 08/14/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-15C | 09/18/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-15C | 10/17/01 | 0.03 | -- | 298 | 92 | <0.01 | -- |
| GW-15C | 11/14/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-15C | 12/12/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-15C | 01/16/02 | 0.07 | -- | 387 | 156 | <0.01 | <0.010 |
| GW-15C | 02/20/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-15C | 03/13/02 | 0.05 | -- | -- | -- | -- | -- |
| GW-15C | 04/16/02 | 0.03 | -- | 333 | 117 | <0.01 | -- |
| GW-15C | 07/10/02 | 0.02 | -- | 260 | 94 | <0.01 | -- |
| GW-15C | 11/05/02 | 0.04 | -- | 138 | 62 | <0.01 | -- |
| GW-15C | 02/13/03 | 0.2 | -- | 95 | 75 | <0.01 | <0.005 |
| GW-15C | 03/06/03 | 0.09 | -- | -- | -- | -- | -- |
| GW-15C | 05/07/03 | 0.04 | -- | 151 | 64 | <0.01 | -- |
| GW-15C | 08/14/03 | 0.02 | -- | 165 | 72 | <0.01 | -- |
| GW-15C | 11/18/03 | 0.02 | -- | 222 | 67 | <0.01 | -- |
| GW-15C | 02/10/04 | 0.02 | -- | 239 | 79 | <0.01 | <0.005 |
| GW-15C | 05/04/04 | 0.03 | -- | 252 | 93 | <0.01 | -- |
| GW-15C | 07/20/04 | 0.01 | -- | 286 | 98 | <0.01 | -- |

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**January 1998 through January 2013**
**Valley Wood Preserving Site**
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|---|---|---|---|---|---|---|---|
| GW-15C | 11/10/04 | 0.01 | -- | 321 | -- | <0.01 | <0.005 |
| GW-15C | 02/04/05 | 0.02 | -- | 320 | -- | <0.01 | <0.005 |
| GW-15C | 05/17/05 | 0.04 | -- | 331 | -- | <0.01 | <0.005 |
| GW-15C | 08/17/05 | 0.05 | -- | 220 | -- | <0.01 | <0.005 |
| GW-15C | 11/16/05 | 0.03 | -- | 351 | -- | <0.01 | <0.005 |
| GW-15C | 02/16/06 | 0.02 | -- | 344 | -- | <0.01 | <0.005 |
| GW-15C | 05/08/06 | 0.03 | -- | 302 | -- | <0.01 | <0.005 |
| GW-15C | 08/08/06 | 0.03 | -- | 213 | -- | <0.01 | 0.01 |
| GW-15C | 11/07/06 | 0.02 | -- | 243 | -- | 0.01 | <0.005 |
| GW-15C | 01/31/07 | 0.02 | -- | 350 | -- | <0.01 | <0.005 |
| GW-15C | 05/15/07 | 0.02 | -- | 274 | -- | <0.01 | <0.005 |
| GW-15C | 08/06/07 | 0.03 | 0.039 | 210 | -- | <0.01 | <0.005 |
| GW-15C | 11/05/07 | <0.01 | 0.026 | 243 | -- | <0.01 | <0.005 |
| GW-15C | 01/31/08 | 0.02 | 0.02 | 409 | -- | <0.02 | <0.005 |
| GW-15C | 05/05/08 | -- | 0.021 | 328 | -- | <0.02 | <0.005 |
| GW-15C | 08/04/08 | -- | 0.032 | 231 | -- | <0.02 | <0.005 |
| GW-15C | 11/10/08 | -- | 0.032 | 289 | -- | <0.02 | <0.005 |
| GW-15C | 02/13/09 | 0.02 | 0.028 | 411 | -- | <0.02 | <0.005 |
| GW-15C | 5/14/09 | -- | 0.022 | 341 | -- | <0.02 | <0.005 |
| GW-15C | 08/05/09 | -- | 0.026 | 267 | -- | <0.02 | <0.005 |
| GW-15C | 10/29/09 | -- | 0.024 | 313 | -- | <0.02 | <0.005 |
| GW-15C | 01/25/10 | 0.03 | 0.021 | 389 | -- | <0.02 | <0.005 |
| GW-15C | 05/12/10 | -- | 0.028 | 426 | -- | <0.02 | <0.005 |
| GW-15C | 8/2/2010 | -- | 0.028 | 422 | -- | <0.02 | <0.005 |
| GW-15C | 01/24/11 | 0.0247 | 0.025 | 270 | -- | 0.02 | <0.005 |
| GW-15C | 8/1/2011 | -- | 0.033 | 263 | -- | <0.02 | <0.005 |
| GW-15C | 1/30/2012 | 0.127 | 0.130 | 208 | -- | <0.02 | <0.005 |
| **GW-15C** | **01/28/13** | **0.117** | **0.120** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| GW-2 | 01/21/98 | 0.16 | -- | 109 | 70 | <0.01 | 0.07 |
| GW-2 | 02/04/98 | 0.25 | -- | 63 | 65 | <0.01 | 0.08 |
| GW-2 | 02/12/98 | 0.27 | -- | 122 | 70 | <0.01 | 0.21 |
| GW-2 | 02/19/98 | 0.21 | -- | 114 | 65 | <0.01 | 0.16 |
| GW-2 | 02/26/98 | 0.49 | -- | 120 | 56 | <0.01 | 0.47 |
| GW-2 | 03/05/98 | 0.36 | -- | 108 | 49 | <0.01 | 0.13 |
| GW-2 | 03/12/98 | 0.47 | -- | 122 | 56 | <0.01 | 0.33 |
| GW-2 | 03/19/98 | 0.09 | -- | 104 | 59 | <0.01 | 0.02 |
| GW-2 | 03/26/98 | 0.47 | -- | 113 | 61 | <0.01 | 0.17 |
| GW-2 | 04/14/98 | 0.37 | -- | 110 | 54 | <0.01 | 0.19 |
| GW-2 | 05/13/98 | 0.22 | -- | 110 | 63 | <0.01 | 0.15 |
| GW-2 | 06/15/98 | 0.06 | -- | 110 | 55 | <0.01 | 0.01 |
| GW-2 | 07/15/98 | 0.12 | -- | 110 | 60 | <0.01 | 0.09 |
| GW-2 | 08/17/98 | 0.11 | -- | 114 | 60 | <0.01 | 0.05 |
| GW-2 | 09/14/98 | 0.09 | -- | 108 | 58 | <0.01 | 0.05 |
| GW-2 | 10/14/98 | 0.09 | -- | 130 | 65 | <0.01 | 0.08 |
| GW-2 | 11/09/98 | 0.09 | -- | 110 | 72 | <0.01 | 0.09 |
| GW-2 | 11/18/98 | 0.08 | -- | -- | -- | -- | -- |

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**January 1998 through January 2013**
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**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-2 | 12/08/98 | 0.08 | -- | 113 | 69 | <0.01 | 0.05 |
| GW-2 | 12/21/98 | 0.02 | -- | -- | -- | -- | -- |
| GW-2 | 01/04/99 | 0.07 | -- | -- | -- | -- | -- |
| GW-2 | 01/19/99 | 0.05 | -- | 113 | 68 | <0.01 | 0.08 |
| GW-2 | 02/02/99 | 0.06 | -- | -- | -- | -- | -- |
| GW-2 | 02/16/99 | 0.08 | -- | 110 | 72 | <0.01 | 0.06 |
| GW-2 | 03/01/99 | 0.08 | -- | -- | -- | -- | -- |
| GW-2 | 03/16/99 | 0.07 | -- | 150 | 66 | <0.01 | 0.09 |
| GW-2 | 04/05/99 | 0.06 | -- | -- | -- | -- | -- |
| GW-2 | 04/22/99 | <0.01 | -- | 184 | 69 | 0.06 | 0.11 |
| GW-2 | 05/03/99 | <0.01 | -- | -- | -- | -- | -- |
| GW-2 | 05/18/99 | <0.01 | -- | 220 | 73 | 0.04 | 0.19 |
| GW-2 | 06/08/99 | <0.01 | -- | 185 | -- | <0.01 | 0.25 |
| GW-2 | 06/14/99 | <0.01 | -- | 420 | 90 | 0.11 | 0.36 |
| GW-2 | 06/22/99 | <0.01 | -- | 165 | 111 | 0.07 | 0.11 |
| GW-2 | 07/06/99 | <0.01 | -- | 245 | -- | -- | 0.16 |
| GW-2 | 07/19/99 | <0.01 | -- | 290 | 92 | 0.27 | 0.22 |
| GW-2 | 08/02/99 | <0.01 | -- | 310 | -- | -- | 0.13 |
| GW-2 | 08/23/99 | <0.01 | -- | 340 | 100 | 0.27 | 0.13 |
| GW-2 | 09/01/99 | <0.01 | -- | 380 | -- | -- | 0.14 |
| GW-2 | 09/16/99 | <0.01 | -- | 158 | 110 | 0.28 | 0.093 |
| GW-2 | 10/04/99 | <0.01 | -- | 340 | -- | -- | 0.045 |
| GW-2 | 10/18/99 | <0.01 | -- | 310 | 104 | 0.36 | 0.058 |
| GW-2 | 11/02/99 | <0.01 | -- | 300 | -- | -- | 0.092 |
| GW-2 | 11/15/99 | <0.01 | -- | 300 | 104 | 0.31 | 0.079 |
| GW-2 | 12/01/99 | <0.01 | -- | 320 | -- | -- | 0.082 |
| GW-2 | 12/13/99 | <0.01 | -- | 320 | 112 | 0.34 | 0.038 |
| GW-2 | 01/03/00 | <0.01 | -- | 270 | -- | -- | 0.043 |
| GW-2 | 01/18/00 | <0.01 | -- | 267 | 100 | 0.18 | <0.010 |
| GW-2 | 02/01/00 | <0.01 | -- | 255 | -- | -- | 0.055 |
| GW-2 | 02/02/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-2 | 02/14/00 | <0.01 | -- | 250 | 99 | 0.15 | 0.035 |
| GW-2 | 03/02/00 | 0.02 | -- | 250 | -- | -- | 0.068 |
| GW-2 | 03/13/00 | 0.03 | -- | 250 | 93 | 0.15 | 0.073 |
| GW-2 | 04/04/00 | 0.01 | -- | -- | -- | -- | -- |
| GW-2 | 04/19/00 | 0.02 | -- | 255 | 95 | 0.12 | 0.062 |
| GW-2 | 05/02/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-2 | 05/24/00 | <0.01 | -- | 235 | 88 | 0.09 | 0.039 |
| GW-2 | 06/05/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-2 | 06/19/00 | <0.01 | -- | 220 | 92 | 0.09 | <0.010 |
| GW-2 | 07/03/00 | 0.02 | -- | -- | -- | -- | 0.106 |
| GW-2 | 07/17/00 | 0.03 | -- | 267 | 93 | 0.07 | 0.089 |
| GW-2 | 08/03/00 | <0.01 | -- | -- | -- | -- | -- |
| GW-2 | 07/17/00 | <0.01 | -- | 240 | 87 | 0.09 | 0.028 |
| GW-2 | 09/05/00 | 0.02 | -- | -- | -- | -- | -- |
| GW-2 | 09/18/00 | 0.02 | -- | 260 | 87 | 0.03 | 0.047 |
| GW-2 | 10/02/00 | 0.01 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-2 | 10/16/00 | 0.02 | -- | 280 | 88 | 0.06 | 0.048 |
| GW-2 | 11/01/00 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 11/13/00 | 0.03 | -- | 259 | 90 | 0.08 | 0.082 |
| GW-2 | 12/01/00 | 0.05 | -- | -- | -- | -- | -- |
| GW-2 | 12/11/00 | 0.04 | -- | 249 | 90 | 0.08 | 0.061 |
| GW-2 | 01/02/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-2 | 01/12/01 | 0.06 | -- | 258 | 86 | 0.08 | 0.121 |
| GW-2 | 02/02/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-2 | 02/12/01 | 0.02 | -- | 117 | 85 | 0.08 | 0.042 |
| GW-2 | 03/01/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 03/12/01 | 0.03 | -- | 250 | 89 | 0.05 | 0.092 |
| GW-2 | 04/02/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 04/16/01 | 0.03 | -- | 255 | 92 | 0.05 | 0.129 |
| GW-2 | 05/01/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 05/16/01 | 0.03 | -- | 250 | 90 | 0.05 | 0.106 |
| GW-2 | 06/04/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 06/18/01 | 0.03 | -- | 250 | 89 | 0.05 | 0.142 |
| GW-2 | 07/02/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 07/16/01 | 0.04 | -- | 254 | 89 | 0.05 | 0.131 |
| GW-2 | 08/02/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 08/13/01 | 0.04 | -- | 271 | 89 | 0.06 | 0.087 |
| GW-2 | 09/10/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 09/19/01 | <0.01 | -- | 285 | 94 | 0.05 | 0.068 |
| GW-2 | 10/01/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 10/16/01 | 0.04 | -- | 227 | 89 | 0.06 | 0.112 |
| GW-2 | 11/01/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-2 | 11/12/01 | 0.05 | -- | 264 | 93 | 0.06 | 0.187 |
| GW-2 | 12/03/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 12/10/01 | 0.04 | -- | 255 | 91 | 0.06 | 0.059 |
| GW-2 | 01/02/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 01/14/02 | 0.05 | -- | 300 | 116 | 0.05 | 0.198 |
| GW-2 | 02/01/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 02/18/02 | 0.05 | -- | 219 | 96 | 0.05 | 0.093 |
| GW-2 | 03/01/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-2 | 03/13/02 | 0.04 | -- | 258 | 95 | 0.06 | 0.06 |
| GW-2 | 04/01/02 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 04/15/02 | 0.03 | -- | 255 | 90 | 0.03 | 0.105 |
| GW-2 | 05/01/02 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 05/20/02 | 0.02 | -- | -- | -- | -- | -- |
| GW-2 | 06/03/02 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 07/08/02 | 0.03 | -- | 235 | 89 | 0.05 | 0.09 |
| GW-2 | 08/19/02 | 0.05 | -- | -- | -- | -- | -- |
| GW-2 | 09/23/02 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 10/15/02 | 0.05 | -- | -- | -- | -- | -- |
| GW-2 | 11/04/02 | 0.04 | -- | 248 | 99 | 0.05 | 0.097 |
| GW-2 | 12/02/02 | 0.03 | -- | -- | -- | -- | |
| GW-2 | 01/23/03 | 0.03 | -- | -- | -- | -- | |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-2 | 02/10/03 | 0.03 | -- | 252 | 86 | 0.05 | 0.078 |
| GW-2 | 03/21/03 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 04/21/03 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 05/05/03 | 0.03 | -- | 242 | 84 | 0.05 | 0.06 |
| GW-2 | 06/10/03 | 0.02 | -- | -- | -- | -- | -- |
| GW-2 | 07/07/03 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 08/11/03 | 0.02 | -- | 196 | 91 | 0.05 | 0.057 |
| GW-2 | 09/08/03 | 0.02 | -- | -- | -- | -- | -- |
| GW-2 | 10/03/03 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 11/14/03 | 0.01 | -- | 223 | 79 | 0.05 | 0.053 |
| GW-2 | 12/10/03 | <0.01 | -- | -- | -- | -- | -- |
| GW-2 | 01/05/04 | <0.01 | -- | -- | -- | -- | -- |
| GW-2 | 02/09/04 | 0.02 | -- | 215 | 91 | 0.05 | 0.054 |
| GW-2 | 03/08/04 | 0.02 | -- | -- | -- | -- | -- |
| GW-2 | 04/05/04 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 05/03/04 | 0.04 | -- | 285 | 92 | 0.04 | 0.08 |
| GW-2 | 06/09/04 | 0.03 | -- | -- | -- | -- | -- |
| GW-2 | 07/19/04 | 0.02 | -- | 229 | 85 | 0.03 | 0.066 |
| GW-2 | 11/11/04 | 0.07 | -- | 271 | -- | 0.04 | 0.19 |
| GW-2 | 02/01/05 | 0.05 | -- | 63 | -- | <0.01 | 0.017 |
| GW-2 | 05/17/05 | 0.04 | -- | 253 | -- | 0.09 | 0.09 |
| GW-2 | 08/16/05 | 0.02 | -- | 269 | -- | 0.08 | 0.11 |
| GW-2 | 11/16/05 | 0.05 | -- | 251 | -- | 0.11 | 0.13 |
| GW-2 | 02/17/06 | 0.09 | -- | 255 | -- | 0.07 | 0.21 |
| GW-2 | 05/08/06 | 0.04 | -- | 240 | -- | 0.09 | 0.17 |
| GW-2 | 08/08/06 | 0.01 | -- | 244 | -- | 0.07 | 0.07 |
| GW-2 | 11/07/06 | 0.05 | -- | 241 | -- | 0.11 | 0.12 |
| GW-2 | 01/26/07 | 0.1 | -- | 287 | -- | 0.01 | 0.23 |
| GW-2 | 05/15/07 | <0.01 | -- | 257 | -- | 0.25 | 0.025 |
| GW-2 | 08/06/07 | <0.01 | 0.035 | 237 | -- | 0.13 | 0.099 |
| GW-2 | 10/15/07 | <0.01 | -- | 1470 | -- | 29.4 | <0.005 |
| GW-2 | 10/22/07 | <0.01 | -- | 1620 | -- | 75.4 | <0.005 |
| GW-2 | 10/30/07 | <0.01 | -- | 3640 | -- | 146 | <0.005 |
| GW-2 | 11/06/07 | <0.01 | <0.010 | 2240 | -- | 94.4 | <0.005 |
| GW-2 | 12/03/07 | <0.01 | -- | 1720 | -- | 51.6 | <0.005 |
| GW-2 | 01/31/08 | <0.01 | <0.010 | 1360 | -- | 21.1 | <0.005 |
| GW-2 | 05/05/08 | -- | <0.010 | 1070 | -- | 2.69 | <0.005 |
| GW-2 | 08/04/08 | -- | <0.010 | 442 | -- | 7.76 | <0.005 |
| GW-2 | 11/10/08 | -- | <0.010 | 484 | -- | 7.14 | <0.005 |
| GW-2 | 02/13/09 | <0.01 | <0.010 | 537 | -- | 0.25 | <0.005 |
| GW-2 | 5/14/09 | -- | <0.010 | 443 | -- | 0.29 | <0.005 |
| GW-2 | 08/05/09 | -- | <0.010 | 339 | -- | 1.92 | <0.005 |
| GW-2 | 10/29/09 | -- | <0.010 | 472 | -- | 5.2 | <0.005 |
| GW-2 | 01/25/10 | <0.01 | <0.010 | 341 | -- | 0.38 | <0.005 |
| GW-2 | 05/12/10 | -- | 0.010 | 387 | -- | 1.56 | <0.005 |
| GW-2 | 8/2/2010 | -- | <0.010 | 362 | -- | 1.60 | <0.005 |
| GW-2 | 01/24/11 | 0.00225 | <0.010 | 304 | -- | 0.53 | <0.005 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-2 | 8/1/2011 | -- | 0.012 | 284 | -- | 0.11 | 0.005 |
| GW-2 | 1/30/2012 | 0.00640 | <0.010 | 274 | -- | 0.29 | 0.005 |
| | | | | | | | |
| GW-24 | 01/19/98 | 0.51 | -- | 85 | 75 | <0.01 | -- |
| GW-24 | 01/19/99 | 0.16 | -- | 111 | 66 | <0.01 | -- |
| GW-24 | 01/26/00 | <0.01 | -- | 420 | 117 | <0.01 | -- |
| GW-24 | 03/20/00 | <0.01 | -- | 410 | 133 | 0.02 | 0.078 |
| GW-24 | 01/18/01 | <0.01 | -- | 374 | 111 | 0.01 | -- |
| GW-24 | 04/18/01 | <0.01 | -- | -- | -- | -- | -- |
| GW-24 | 07/23/01 | <0.01 | -- | -- | -- | -- | -- |
| GW-24 | 01/15/02 | <0.01 | -- | 250 | 103 | <0.01 | -- |
| GW-24 | 02/14/03 | 0.02 | -- | 254 | 82 | <0.01 | -- |
| GW-24 | 02/11/04 | 0.01 | -- | 252 | 87 | <0.01 | -- |
| GW-24 | 02/01/05 | 0.09 | -- | 250 | -- | 0.03 | 0.19 |
| GW-24 | 05/18/05 | 0.04 | -- | 245 | -- | 0.09 | 0.1 |
| GW-24 | 08/16/05 | 0.05 | -- | 270 | -- | <0.01 | 0.03 |
| GW-24 | 11/16/05 | 0.04 | -- | 303 | -- | <0.01 | 0.04 |
| GW-24 | 02/16/06 | 0.04 | -- | 323 | -- | <0.01 | 0.06 |
| GW-24 | 05/08/06 | 0.05 | -- | 282 | -- | <0.01 | 0.05 |
| GW-24 | 08/08/06 | 0.07 | -- | 238 | -- | <0.01 | 0.06 |
| GW-24 | 11/07/06 | 0.04 | -- | 258 | -- | <0.01 | 0.04 |
| GW-24 | 01/26/07 | 0.03 | -- | 296 | -- | 0.01 | 0.05 |
| GW-24 | 05/15/07 | 0.04 | -- | 293 | -- | 0.01 | 0.049 |
| GW-24 | 08/06/07 | 0.03 | 0.048 | 291 | -- | <0.01 | 0.056 |
| GW-24 | 10/15/07 | <0.01 | -- | 3430 | -- | 119 | <0.005 |
| GW-24 | 10/22/07 | <0.01 | -- | 966 | -- | 19 | <0.005 |
| GW-24 | 10/30/07 | <0.01 | -- | 902 | -- | 15.5 | <0.005 |
| GW-24 | 11/06/07 | <0.01 | <0.010 | 557 | -- | 12.6 | <0.005 |
| GW-24 | 12/03/07 | <0.01 | -- | 540 | -- | 5.34 | <0.005 |
| GW-24 | 01/31/08 | <0.01 | <0.010 | 360 | -- | 1.22 | <0.005 |
| GW-24 | 05/05/08 | -- | <0.010 | 299 | -- | 0.59 | <0.005 |
| GW-24 | 08/04/08 | -- | <0.010 | 291 | -- | 0.66 | <0.005 |
| GW-24 | 11/10/08 | -- | <0.010 | 329 | -- | 0.65 | <0.005 |
| GW-24 | 02/13/09 | <0.01 | <0.010 | 354 | -- | 0.15 | <0.005 |
| GW-24 | 5/14/09 | -- | <0.010 | 275 | -- | 0.13 | <0.005 |
| GW-24 | 08/05/09 | -- | <0.010 | 261 | -- | 0.62 | <0.005 |
| GW-24 | 10/29/09 | -- | <0.010 | 250 | -- | 0.57 | <0.005 |
| GW-24 | 01/25/10 | <0.01 | <0.010 | 271 | -- | 0.23 | <0.005 |
| GW-24 | 05/12/10 | -- | <0.010 | 252 | -- | 0.05 | <0.005 |
| GW-24 | 8/2/2010 | -- | <0.010 | 243 | -- | 0.14 | <0.005 |
| GW-24 | 01/24/11 | <0.00050 | <0.010 | 248 | -- | 0.15 | 0.005 |
| GW-24 | 8/1/2011 | -- | <0.010 | 244 | -- | 0.22 | <0.005 |
| GW-24 | 1/30/2012 | <0.00050 | <0.010 | 231 | -- | 0.07 | <0.005 |
| **GW-24** | **01/28/13** | **<0.00050** | **<0.010** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| GW-39D | 06/25/99 | 0.11 | -- | 34 | 32 | <0.01 | <0.01 |
| GW-39D | 07/19/99 | 0.14 | -- | 40 | 38 | <0.01 | 0.02 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-39D | 08/02/99 | 0.14 | -- | -- | -- | -- | -- |
| GW-39D | 09/01/99 | 0.13 | -- | -- | -- | -- | -- |
| GW-39D | 09/16/99 | 0.12 | -- | 52 | 42 | <0.01 | 0.014 |
| GW-39D | 10/04/99 | 0.12 | -- | -- | -- | -- | -- |
| GW-39D | 10/18/99 | 0.11 | -- | 57 | 46 | <0.01 | 0.015 |
| GW-39D | 11/02/99 | 0.11 | -- | -- | -- | -- | -- |
| GW-39D | 11/15/99 | 0.11 | -- | 64 | -- | -- | 0.02 |
| GW-39D | 12/01/99 | 0.11 | -- | -- | -- | -- | -- |
| GW-39D | 01/03/00 | 0.08 | -- | -- | -- | -- | -- |
| GW-39D | 01/18/00 | 0.09 | -- | 69 | 48 | <0.01 | 0.019 |
| GW-39D | 02/01/00 | 0.09 | -- | -- | -- | -- | -- |
| GW-39D | 02/14/00 | 0.08 | -- | 70 | 50 | 0.03 | <0.010 |
| GW-39D | 03/02/00 | 0.08 | -- | -- | -- | -- | -- |
| GW-39D | 03/13/00 | 0.08 | -- | 75 | 48 | <0.01 | 0.016 |
| GW-39D | 04/04/00 | 0.07 | -- | -- | -- | -- | -- |
| GW-39D | 04/19/00 | 0.08 | -- | 50 | 49 | <0.01 | 0.023 |
| GW-39D | 05/02/00 | 0.08 | -- | -- | -- | -- | -- |
| GW-39D | 05/24/00 | 0.07 | -- | 75 | 48 | <0.01 | 0.015 |
| GW-39D | 06/05/00 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 06/19/00 | 0.06 | -- | 79 | 50 | <0.01 | 0.028 |
| GW-39D | 07/03/00 | 0.07 | -- | -- | -- | -- | 0.013 |
| GW-39D | 07/17/00 | 0.07 | -- | 99 | 51 | <0.01 | 0.019 |
| GW-39D | 08/03/00 | 0.07 | -- | -- | -- | -- | -- |
| GW-39D | 08/16/00 | 0.06 | -- | 88 | 50 | <0.01 | <0.010 |
| GW-39D | 09/05/00 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 09/18/00 | 0.06 | -- | 112 | 55 | <0.01 | 0.015 |
| GW-39D | 10/02/00 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 10/16/00 | 0.06 | -- | 114 | 53 | <0.01 | <0.010 |
| GW-39D | 11/01/00 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 11/13/00 | 0.07 | -- | 104 | 53 | <0.01 | <0.010 |
| GW-39D | 12/01/00 | 0.05 | -- | -- | -- | -- | -- |
| GW-39D | 12/11/00 | 0.09 | -- | 96 | 51 | <0.01 | <0.010 |
| GW-39D | 01/02/01 | 0.07 | -- | -- | -- | -- | -- |
| GW-39D | 01/12/01 | 0.05 | -- | 105 | 52 | <0.01 | <0.010 |
| GW-39D | 02/02/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 02/12/01 | 0.06 | -- | 118 | 52 | <0.01 | 0.017 |
| GW-39D | 03/01/01 | 0.07 | -- | -- | -- | -- | -- |
| GW-39D | 03/12/01 | 0.06 | -- | 101 | 54 | <0.01 | <0.010 |
| GW-39D | 04/02/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-39D | 04/16/01 | 0.05 | -- | 104 | 56 | <0.01 | 0.016 |
| GW-39D | 05/01/01 | 0.04 | -- | -- | -- | -- | -- |
| GW-39D | 05/16/01 | 0.05 | -- | 102 | 55 | <0.01 | 0.012 |
| GW-39D | 06/04/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-39D | 06/18/01 | 0.04 | -- | 104 | 54 | <0.01 | 0.027 |
| GW-39D | 07/02/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 07/16/01 | 0.06 | -- | 104 | 56 | <0.01 | <0.010 |
| GW-39D | 08/02/01 | 0.06 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-39D | 08/13/01 | 0.05 | -- | 107 | 59 | <0.01 | 0.019 |
| GW-39D | 09/10/01 | 0.07 | -- | -- | -- | -- | -- |
| GW-39D | 09/19/01 | 0.06 | -- | 115 | 58 | <0.01 | 0.018 |
| GW-39D | 10/01/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 10/16/01 | 0.07 | -- | 94 | 61 | <0.01 | 0.012 |
| GW-39D | 11/01/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 11/12/01 | 0.07 | -- | 105 | 56 | <0.01 | 0.021 |
| GW-39D | 12/03/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 12/10/01 | 0.06 | -- | 106 | 59 | <0.01 | 0.011 |
| GW-39D | 01/02/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-39D | 01/14/02 | 0.06 | -- | 95 | 70 | <0.01 | 0.023 |
| GW-39D | 02/01/02 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 02/18/02 | 0.06 | -- | 98 | 60 | <0.01 | 0.022 |
| GW-39D | 03/01/02 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 03/13/02 | 0.06 | -- | 113 | 60 | <0.01 | 0.011 |
| GW-39D | 04/01/02 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 04/15/02 | 0.06 | -- | 109 | 57 | <0.01 | <0.010 |
| GW-39D | 05/01/02 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 05/20/02 | 0.05 | -- | -- | -- | -- | -- |
| GW-39D | 06/03/02 | 0.07 | -- | -- | -- | -- | -- |
| GW-39D | 07/08/02 | 0.04 | -- | 115 | 56 | <0.01 | 0.018 |
| GW-39D | 08/19/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-39D | 09/23/02 | 0.05 | -- | -- | -- | -- | -- |
| GW-39D | 10/15/02 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 11/04/02 | 0.05 | -- | 114 | 62 | <0.01 | 0.018 |
| GW-39D | 12/02/02 | 0.05 | -- | -- | -- | -- | |
| GW-39D | 01/23/03 | 0.05 | -- | -- | -- | -- | |
| GW-39D | 02/10/03 | 0.04 | -- | 118 | 55 | <0.01 | 0.016 |
| GW-39D | 03/21/03 | 0.06 | -- | -- | -- | -- | -- |
| GW-39D | 04/21/03 | 0.05 | -- | -- | -- | -- | -- |
| GW-39D | 05/05/03 | 0.05 | -- | 112 | 54 | <0.01 | 0.015 |
| | | WELL REHABILITATED 12/09-12/2003 | | | | | |
| GW-39D | 12/12/03 | 0.06 | -- | 77 | 43 | <0.01 | 0.016 |
| GW-39D | 01/05/04 | 0.04 | -- | 77 | 43 | <0.01 | 0.016 |
| GW-39D | 02/11/04 | 0.04 | -- | 72 | 45 | <0.01 | 0.015 |
| GW-39D | 03/02/04 | 0.04 | -- | 64 | 44 | <0.01 | 0.017 |
| GW-39D | 04/05/04 | 0.05 | -- | 76 | 38 | <0.01 | 0.012 |
| GW-39D | 05/04/04 | 0.05 | -- | 66 | 53 | <0.01 | 0.022 |
| GW-39D | 07/21/04 | 0.05 | -- | 56 | 51 | <0.01 | 0.015 |
| GW-39D | 11/11/04 | 0.04 | -- | 65 | -- | 0.02 | 0.02 |
| GW-39D | 02/01/05 | 0.07 | -- | 275 | -- | <0.01 | 0.043 |
| GW-39D | 05/17/05 | 0.06 | -- | 67 | -- | <0.01 | 0.02 |
| GW-39D | 08/17/05 | 0.06 | -- | 65 | -- | 0.03 | 0.02 |
| GW-39D | 11/16/05 | 0.05 | -- | 64 | -- | <0.01 | 0.018 |
| GW-39D | 02/17/06 | 0.06 | -- | 70 | -- | <0.01 | 0.02 |
| GW-39D | 05/08/06 | 0.05 | -- | 60 | -- | <0.01 | 0.02 |
| GW-39D | 08/08/06 | <0.01 | -- | 64 | -- | <0.01 | 0.03 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-39D | 11/07/06 | 0.06 | -- | 80 | -- | <0.01 | 0.02 |
| GW-39D | 01/26/07 | 0.06 | -- | 64.1 | -- | <0.01 | 0.03 |
| GW-39D | 05/15/07 | 0.06 | -- | 66.5 | -- | 0.01 | 0.021 |
| GW-39D | 08/06/07 | 0.06 | 0.066 | 72.6 | -- | <0.01 | 0.022 |
| GW-39D | 11/06/07 | 0.02 | 0.048 | 68 | -- | 0.01 | 0.014 |
| GW-39D | 01/31/08 | 0.05 | 0.051 | 70.1 | -- | <0.02 | 0.02 |
| GW-39D | 05/05/08 | -- | 0.048 | 78 | -- | 0.02 | 0.018 |
| GW-39D | 08/04/08 | -- | 0.05 | 70.8 | -- | 0.03 | 0.016 |
| GW-39D | 11/10/08 | -- | 0.054 | 66 | -- | <0.02 | 0.018 |
| GW-39D | 02/13/09 | 0.05 | 0.057 | 64.7 | -- | <0.02 | 0.018 |
| GW-39D | 5/14/09 | -- | 0.058 | 68.7 | -- | <0.02 | 0.018 |
| GW-39D | 08/05/09 | -- | 0.061 | 67.3 | -- | <0.02 | 0.018 |
| GW-39D | 10/29/09 | -- | 0.062 | 68 | -- | <0.02 | 0.019 |
| GW-39D | 01/25/10 | 0.06 | 0.06 | 65.7 | -- | <0.02 | 0.017 |
| GW-39D | 05/12/10 | -- | 0.058 | 67.0 | -- | <0.02 | 0.017 |
| GW-39D | 8/2/2010 | -- | 0.055 | 62.9 | -- | <0.02 | 0.018 |
| GW-39D | 01/24/11 | 0.0563 | 0.060 | 64.5 | -- | 0.02 | 0.019 |
| GW-39D | 8/1/2011 | -- | 0.048 | 63.9 | -- | <0.02 | 0.016 |
| GW-39D | 1/30/2012 | 0.0562 | 0.057 | 62.5 | -- | <0.02 | 0.016 |
| **GW-39D** | **01/28/13** | **0.0554** | **0.056** | **--** | **--** | **--** | **0.017** |
| | | | | | | | |
| GW-5 | 01/21/98 | 0.35 | -- | 83 | 71 | <0.01 | <0.01 |
| GW-5 | 02/04/98 | 0.22 | -- | 83 | 64 | <0.01 | <0.01 |
| GW-5 | 02/12/98 | 0.42 | -- | 89 | 66 | <0.01 | <0.01 |
| GW-5 | 02/19/98 | 0.42 | -- | 88 | 68 | <0.01 | <0.01 |
| GW-5 | 02/26/98 | 0.22 | -- | 84 | 50 | <0.01 | <0.01 |
| GW-5 | 03/05/98 | 0.41 | -- | 90 | 49 | <0.01 | <0.01 |
| GW-5 | 03/12/98 | 0.4 | -- | 85 | 52 | <0.01 | <0.01 |
| GW-5 | 03/19/98 | 0.33 | -- | 105 | 63 | <0.01 | 0.09 |
| GW-5 | 03/26/98 | 0.42 | -- | 88 | 60 | <0.01 | <0.01 |
| GW-5 | 04/14/98 | 0.49 | -- | 82 | 52 | <0.01 | <0.01 |
| GW-5 | 05/13/98 | 0.42 | -- | 80 | 64 | <0.01 | <0.01 |
| GW-5 | 06/15/98 | 0.38 | -- | 87 | 54 | <0.01 | <0.01 |
| GW-5 | 07/15/98 | 0.28 | -- | 78 | 57 | <0.01 | <0.01 |
| GW-5 | 08/17/98 | 0.28 | -- | 86 | 58 | <0.01 | <0.01 |
| GW-5 | 09/14/98 | 0.22 | -- | 84 | 58 | <0.01 | <0.01 |
| GW-5 | 10/14/98 | 0.17 | -- | 98 | 64 | <0.01 | <0.01 |
| GW-5 | 11/09/98 | 0.21 | -- | 94 | 72 | <0.01 | <0.01 |
| GW-5 | 11/23/98 | 0.18 | -- | -- | -- | -- | -- |
| GW-5 | 12/08/98 | 0.18 | -- | 92 | 69 | <0.01 | <0.01 |
| GW-5 | 12/21/98 | 0.16 | -- | -- | -- | -- | -- |
| GW-5 | 01/04/99 | 0.12 | -- | -- | -- | -- | -- |
| GW-5 | 01/19/99 | 0.11 | -- | 98 | 67 | <0.01 | <0.01 |
| GW-5 | 02/02/99 | 0.15 | -- | -- | -- | -- | -- |
| GW-5 | 02/16/99 | 0.16 | -- | 95 | 72 | <0.01 | <0.01 |
| GW-5 | 03/01/99 | 0.15 | -- | -- | -- | -- | -- |
| GW-5 | 03/16/99 | 0.13 | -- | 125 | 68 | <0.01 | <0.01 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-5 | 04/05/99 | 0.13 | -- | -- | -- | -- | -- |
| GW-5 | 04/22/99 | 0.13 | -- | 114 | 69 | 0.02 | <0.01 |
| GW-5 | 05/03/99 | 0.13 | -- | -- | -- | -- | -- |
| GW-5 | 05/18/99 | 0.12 | -- | 150 | 71 | 0.03 | <0.01 |
| GW-5 | 06/08/99 | 0.1 | -- | 105 | -- | -- | <0.01 |
| GW-5 | 06/22/99 | 0.1 | -- | 100 | 70 | 0.06 | <0.01 |
| GW-5 | 07/06/99 | 0.1 | -- | 145 | -- | -- | -- |
| GW-5 | 07/19/99 | 0.05 | -- | 160 | 74 | 0.08 | <0.01 |
| GW-5 | 08/02/99 | 0.07 | -- | -- | -- | -- | -- |
| GW-5 | 08/17/99 | 0.06 | -- | 163 | 76 | 0.05 | 0.01 |
| GW-5 | 09/01/99 | <0.01 | -- | -- | -- | -- | -- |
| GW-5 | 09/16/99 | 0.09 | -- | 170 | 75 | 0.05 | 0.019 |
| GW-5 | 10/04/99 | 0.09 | -- | -- | -- | -- | -- |
| GW-5 | 10/18/99 | 0.07 | -- | 164 | 76 | 0.05 | <0.01 |
| GW-5 | 11/02/99 | 0.09 | -- | -- | -- | -- | -- |
| GW-5 | 11/15/99 | <0.01 | -- | 180 | 80 | 0.06 | <0.01 |
| GW-5 | 12/01/99 | 0.08 | -- | -- | -- | -- | -- |
| GW-5 | 12/13/99 | 0.07 | -- | 210 | 81 | 0.06 | <0.010 |
| GW-5 | 01/03/00 | 0.06 | -- | -- | -- | -- | -- |
| GW-5 | 01/18/00 | 0.07 | -- | 186 | 82 | 0.07 | 0.021 |
| GW-5 | 02/01/00 | 0.07 | -- | -- | -- | -- | -- |
| GW-5 | 02/14/00 | 0.07 | -- | 203 | 86 | <0.01 | <0.010 |
| GW-5 | 03/02/00 | 0.07 | -- | -- | -- | -- | -- |
| GW-5 | 03/13/00 | 0.06 | -- | 190 | 79 | 0.08 | <0.010 |
| GW-5 | 04/04/00 | 0.02 | -- | -- | -- | -- | -- |
| GW-5 | 04/19/00 | 0.06 | -- | 225 | 83 | 0.08 | <0.010 |
| GW-5 | 05/02/00 | 0.02 | -- | -- | -- | -- | -- |
| GW-5 | 05/24/00 | <0.01 | -- | 200 | 80 | 0.04 | <0.010 |
| GW-5 | 06/05/00 | 0.04 | -- | -- | -- | -- | -- |
| GW-5 | 06/19/00 | 0.04 | -- | 200 | 87 | 0.04 | 0.011 |
| GW-5 | 07/03/00 | 0.05 | -- | -- | -- | -- | <0.010 |
| GW-5 | 07/17/00 | 0.05 | -- | 230 | 79 | <0.01 | <0.010 |
| GW-5 | 08/03/00 | 0.05 | -- | -- | -- | -- | -- |
| GW-5 | 07/17/00 | 0.03 | -- | 310 | 100 | 0.16 | <0.010 |
| GW-5 | 09/05/00 | 0.04 | -- | -- | -- | -- | -- |
| GW-5 | 09/18/00 | 0.04 | -- | 277 | 90 | 0.02 | <0.010 |
| GW-5 | 10/02/00 | 0.02 | -- | -- | -- | -- | -- |
| GW-5 | 10/16/00 | 0.04 | -- | 268 | 85 | 0.03 | <0.010 |
| GW-5 | 11/01/00 | 0.05 | -- | -- | -- | -- | -- |
| GW-5 | 11/13/00 | 0.03 | -- | 257 | 88 | 0.03 | <0.010 |
| GW-5 | 12/01/00 | 0.07 | -- | -- | -- | -- | -- |
| GW-5 | 12/11/00 | 0.03 | -- | 228 | 86 | 0.04 | <0.010 |
| GW-5 | 01/02/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-5 | 01/12/01 | 0.04 | -- | 237 | 82 | 0.02 | <0.010 |
| GW-5 | 02/02/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-5 | 02/12/01 | 0.02 | -- | 235 | 82 | 0.03 | <0.010 |
| GW-5 | 03/01/01 | 0.03 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-5 | 03/12/01 | 0.04 | -- | 227 | 87 | 0.02 | <0.010 |
| GW-5 | 04/02/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-5 | 04/16/01 | 0.02 | -- | 230 | 87 | 0.02 | <0.010 |
| GW-5 | 05/01/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-5 | 05/16/01 | 0.03 | -- | 220 | 86 | 0.01 | <0.010 |
| GW-5 | 06/04/01 | 0.02 | -- | -- | -- | -- | -- |
| GW-5 | 06/18/01 | 0.02 | -- | 198 | 77 | 0.01 | <0.010 |
| GW-5 | 07/02/01 | 0.03 | -- | -- | -- | -- | -- |
| GW-5 | 07/16/01 | 0.05 | -- | 245 | 89 | <0.01 | 0.087 |
| GW-5 | 08/02/01 | 0.05 | -- | -- | -- | -- | -- |
| GW-5 | 08/13/01 | 0.03 | -- | 232 | 86 | <0.01 | 0.064 |
| GW-5 | 09/10/01 | 0.07 | -- | -- | -- | -- | -- |
| GW-5 | 09/19/01 | 0.05 | -- | 143 | 61 | 0.01 | <0.010 |
| GW-5 | 10/01/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-5 | 10/16/01 | 0.07 | -- | 76 | 50 | <0.01 | <0.010 |
| GW-5 | 11/01/01 | 0.06 | -- | -- | -- | -- | -- |
| GW-5 | 11/12/01 | 0.1 | -- | 72 | 42 | <0.01 | <0.010 |
| GW-5 | 12/03/01 | 0.08 | -- | -- | -- | -- | -- |
| GW-5 | 12/10/01 | 0.1 | -- | 114 | 54 | 0.01 | <0.010 |
| GW-5 | 01/02/02 | 0.06 | -- | -- | -- | -- | -- |
| GW-5 | 01/14/02 | 0.08 | -- | 122 | 77 | <0.01 | <0.010 |
| GW-5 | 02/01/02 | 0.07 | -- | -- | -- | -- | -- |
| GW-5 | 02/18/02 | 0.09 | -- | 136 | 68 | <0.01 | <0.010 |
| GW-5 | 03/01/02 | 0.08 | -- | -- | -- | -- | -- |
| GW-5 | 03/13/02 | 0.05 | -- | 169 | 73 | <0.01 | <0.010 |
| GW-5 | 04/01/02 | 0.01 | -- | -- | -- | -- | -- |
| GW-5 | 04/15/02 | 0.04 | -- | 179 | 74 | <0.01 | <0.010 |
| GW-5 | 05/01/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-5 | 05/20/02 | 0.04 | -- | -- | -- | -- | -- |
| GW-5 | 06/03/02 | 0.05 | -- | -- | -- | -- | -- |
| GW-5 | 07/08/02 | 0.03 | -- | 104 | 49 | 0.01 | <0.005 |
| GW-5 | 08/19/02 | 0.03 | -- | -- | -- | -- | -- |
| GW-5 | 09/23/02 | 0.08 | -- | -- | -- | -- | -- |
| GW-5 | 10/15/02 | 0.02 | -- | -- | -- | -- | -- |
| GW-5 | 11/04/02 | 0.04 | -- | 63 | 52 | 0.01 | <0.005 |
| GW-5 | 12/02/02 | 0.09 | -- | -- | -- | -- | |
| GW-5 | 02/10/03 | 0.1 | -- | 132 | 58 | <0.01 | <0.005 |
| GW-5 | 03/21/03 | 0.06 | -- | -- | -- | -- | -- |
| GW-5 | 04/21/03 | 0.06 | -- | -- | -- | -- | -- |
| GW-5 | 05/05/03 | <0.01 | -- | 240 | 82 | <0.01 | 0.029 |
| GW-5 | 06/10/03 | 0.02 | -- | -- | -- | -- | -- |
| GW-5 | 07/07/03 | 0.1 | -- | -- | -- | -- | -- |
| GW-5 | 08/11/03 | 0.02 | -- | 129 | 58 | 0.01 | <0.005 |
| GW-5 | 09/08/03 | 0.05 | -- | -- | -- | -- | -- |
| GW-5 | 10/03/03 | 0.03 | -- | -- | -- | -- | -- |
| GW-5 | 11/14/03 | 0.03 | -- | 126 | 54 | <0.01 | <0.005 |
| GW-5 | 12/10/03 | 0.06 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| GW-5 | 01/05/04 | 0.07 | -- | -- | -- | -- | -- |
| GW-5 | 02/09/04 | 0.05 | -- | 131 | 58 | <0.01 | <0.005 |
| GW-5 | 03/08/04 | 0.05 | -- | -- | -- | -- | -- |
| GW-5 | 04/05/04 | 0.02 | -- | -- | -- | -- | -- |
| GW-5 | 05/03/04 | 0.02 | -- | 202 | 74 | <0.01 | <0.005 |
| GW-5 | 06/09/04 | 0.03 | -- | -- | -- | -- | -- |
| GW-5 | 07/19/04 | 0.03 | -- | 185 | 77 | <0.01 | <0.005 |
| GW-5 | 11/10/04 | 0.07 | -- | 173 | -- | <0.01 | <0.005 |
| GW-5 | 02/04/05 | 0.15 | -- | 162 | -- | <0.01 | <0.005 |
| GW-5 | 05/17/05 | 0.62 | -- | 160 | -- | <0.01 | <0.005 |
| GW-5 | 08/17/05 | 0.09 | -- | 213 | -- | <0.01 | <0.005 |
| GW-5 | 11/16/05 | 0.09 | -- | 227 | -- | <0.01 | <0.005 |
| GW-5 | 02/16/06 | 0.08 | -- | 236 | -- | <0.01 | <0.005 |
| GW-5 | 05/08/06 | 0.07 | -- | 222 | -- | <0.01 | <0.005 |
| GW-5 | 08/08/06 | 0.04 | -- | 198 | -- | <0.01 | <0.005 |
| GW-5 | 11/07/06 | 0.04 | -- | 271 | -- | <0.01 | <0.005 |
| GW-5 | 01/31/07 | 0.04 | -- | 208 | -- | <0.01 | <0.005 |
| GW-5 | 05/15/07 | 0.04 | -- | 235 | -- | <0.01 | <0.005 |
| GW-5 | 08/06/07 | 0.04 | 0.04 | 221 | -- | <0.01 | <0.005 |
| GW-5 | 11/05/07 | 0.01 | 0.034 | 271 | -- | <0.01 | <0.005 |
| GW-5 | 01/31/08 | 0.03 | 0.032 | 275 | -- | <0.02 | <0.005 |
| GW-5 | 08/04/08 | -- | 0.064 | 214 | -- | <0.02 | <0.005 |
| GW-5 | 02/13/09 | 0.03 | 0.034 | 265 | -- | <0.02 | <0.005 |
| GW-5 | 08/05/09 | -- | 0.026 | 240 | -- | <0.02 | <0.005 |
| GW-5 | 01/25/10 | 0.03 | 0.026 | 243 | -- | <0.02 | <0.005 |
| GW-5 | 8/2/2010 | -- | 0.028 | 208 | -- | <0.02 | <0.005 |
| GW-5 | 01/24/11 | 0.0270 | 0.028 | 224 | -- | 0.02 | <0.005 |
| GW-5 | 8/1/2011 | -- | 0.030 | 214 | -- | <0.02 | <0.005 |
| GW-5 | 1/30/2012 | 0.0374 | 0.038 | 257 | -- | <0.02 | <0.005 |
| **GW-5** | **01/28/13** | **0.0553** | **0.056** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| HOLLISTER-2 | 01/02/98 | <0.01 | -- | 7 | 16 | <0.01 | <0.01 |
| HOLLISTER-2 | 01/21/98 | 0.02 | -- | 9 | 20 | <0.01 | <0.01 |
| HOLLISTER-2 | 02/09/98 | <0.01 | -- | -- | -- | -- | -- |
| HOLLISTER-2 | 02/25/98 | <0.01 | -- | 9 | 13 | <0.01 | <0.01 |
| HOLLISTER-2 | 03/19/98 | <0.01 | -- | 8 | 13 | <0.01 | <0.01 |
| HOLLISTER-2 | 04/13/98 | <0.01 | -- | 9 | 12 | <0.01 | <0.01 |
| HOLLISTER-2 | 05/11/98 | <0.01 | -- | 25 | 12 | <0.01 | <0.01 |
| HOLLISTER-2 | 06/15/98 | <0.01 | -- | 6 | 9 | <0.01 | <0.01 |
| HOLLISTER-2 | 07/13/98 | <0.01 | -- | 6 | 12 | <0.01 | <0.01 |
| HOLLISTER-2 | 08/17/98 | <0.01 | -- | 6 | 13 | <0.01 | <0.01 |
| HOLLISTER-2 | 09/14/98 | <0.01 | -- | 6 | 12 | <0.01 | <0.01 |
| HOLLISTER-2 | 10/14/98 | <0.01 | -- | 7 | 13 | <0.01 | <0.01 |
| HOLLISTER-2 | 11/09/98 | <0.01 | -- | 8 | 18 | <0.01 | <0.01 |
| HOLLISTER-2 | 12/07/98 | <0.01 | -- | 6 | 12 | <0.01 | <0.01 |
| HOLLISTER-2 | 01/19/99 | <0.01 | -- | 6 | 12 | <0.01 | <0.01 |
| HOLLISTER-2 | 02/16/99 | <0.01 | -- | 4 | 13 | <0.01 | <0.01 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| HOLLISTER-2 | 03/16/99 | <0.01 | -- | 6 | 12 | <0.01 | 0.01 |
| HOLLISTER-2 | 04/22/99 | <0.01 | -- | 6 | 12 | <0.01 | <0.01 |
| HOLLISTER-2 | 05/18/99 | <0.01 | -- | 8 | 13 | <0.01 | <0.01 |
| HOLLISTER-2 | 06/22/99 | <0.01 | -- | 35 | 13 | <0.01 | <0.01 |
| HOLLISTER-2 | 07/19/99 | <0.01 | -- | 7 | 14 | <0.01 | <0.01 |
| HOLLISTER-2 | 08/19/99 | <0.01 | -- | 5 | 15 | <0.01 | <0.01 |
| HOLLISTER-2 | 09/16/99 | <0.01 | -- | 8 | 14 | <0.01 | <0.01 |
| HOLLISTER-2 | 10/18/99 | <0.01 | -- | 5 | 15 | <0.01 | <0.01 |
| HOLLISTER-2 | 11/15/99 | <0.01 | -- | 8 | 14 | <0.01 | <0.01 |
| HOLLISTER-2 | 12/13/99 | <0.01 | -- | 11 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 01/14/00 | <0.01 | -- | 6 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 02/11/00 | <0.01 | -- | 7 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 03/14/00 | <0.01 | -- | 3 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 04/19/00 | <0.01 | -- | 5 | 12 | <0.01 | <0.010 |
| HOLLISTER-2 | 05/24/00 | <0.01 | -- | 4 | 12 | <0.01 | <0.010 |
| HOLLISTER-2 | 06/19/00 | <0.01 | -- | 5 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 07/17/00 | <0.01 | -- | 8 | 14 | <0.01 | <0.010 |
| HOLLISTER-2 | 08/14/00 | <0.01 | -- | 5 | 16 | <0.01 | <0.010 |
| HOLLISTER-2 | 09/18/00 | <0.01 | -- | 11 | 16 | <0.01 | <0.010 |
| HOLLISTER-2 | 10/16/00 | <0.01 | -- | 5 | 14 | <0.01 | <0.010 |
| HOLLISTER-2 | 11/13/00 | <0.01 | -- | 4 | 14 | <0.01 | <0.010 |
| HOLLISTER-2 | 12/11/00 | <0.01 | -- | 8.8 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 01/12/01 | <0.01 | -- | 6.5 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 02/12/01 | <0.01 | -- | 4.9 | 12 | <0.01 | <0.010 |
| HOLLISTER-2 | 03/12/01 | <0.01 | -- | 7 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 04/16/01 | <0.01 | -- | 4.7 | 12 | <0.01 | <0.010 |
| HOLLISTER-2 | 05/14/01 | <0.01 | -- | 4.3 | 12 | <0.01 | <0.010 |
| HOLLISTER-2 | 06/18/01 | <0.01 | -- | 4.2 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 07/16/01 | <0.01 | -- | 5.2 | 12 | <0.01 | <0.010 |
| HOLLISTER-2 | 08/13/01 | <0.01 | -- | 4.7 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 09/17/01 | <0.01 | -- | 4.8 | 14 | <0.01 | <0.010 |
| HOLLISTER-2 | 10/15/01 | <0.01 | -- | 4.8 | 14 | <0.01 | <0.010 |
| HOLLISTER-2 | 11/12/01 | <0.01 | -- | 5.0 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 12/10/01 | <0.01 | -- | 4.4 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 01/14/02 | <0.01 | -- | 5.3 | 16 | <0.01 | <0.010 |
| HOLLISTER-2 | 02/18/02 | <0.01 | -- | 4.4 | 15 | <0.01 | <0.010 |
| HOLLISTER-2 | 03/12/02 | <0.01 | -- | 4.2 | 14 | <0.01 | <0.010 |
| HOLLISTER-2 | 04/15/02 | <0.01 | -- | 4.1 | 13 | <0.01 | <0.010 |
| HOLLISTER-2 | 07/08/02 | <0.01 | -- | 5.1 | 13 | <0.01 | <0.005 |
| HOLLISTER-2 | 11/04/02 | <0.01 | -- | 6.7 | 17 | <0.01 | 0.006 |
| HOLLISTER-2 | 02/10/03 | <0.01 | -- | 5.8 | 15 | <0.01 | <0.005 |
| HOLLISTER-2 | 05/05/03 | <0.01 | -- | 7 | 15 | <0.01 | <0.005 |
| HOLLISTER-2 | 08/11/03 | <0.01 | -- | 12 | 26 | <0.01 | <0.005 |
| HOLLISTER-2 | 11/14/03 | <0.01 | -- | 15 | 27 | <0.01 | 0.005 |
| HOLLISTER-2 | 02/09/04 | <0.01 | -- | 13 | 27 | <0.01 | <0.005 |
| HOLLISTER-2 | 05/04/04 | <0.01 | -- | 32 | 65 | <0.01 | <0.005 |
| HOLLISTER-2 | 07/19/04 | <0.01 | -- | 17 | 37 | <0.01 | <0.005 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| HOLLISTER-2 | 01/31/05 | <0.01 | -- | 16 | -- | <0.01 | <0.005 |
| HOLLISTER-2 | 08/16/05 | <0.01 | -- | 31 | -- | 0.01 | <0.005 |
| HOLLISTER-2 | 02/15/06 | <0.01 | -- | 26 | -- | <0.01 | <0.005 |
| HOLLISTER-2 | 08/07/06 | <0.01 | -- | 28 | -- | <0.01 | <0.005 |
| HOLLISTER-2 | 01/25/07 | <0.01 | -- | 24.5 | -- | <0.01 | <0.005 |
| HOLLISTER-2 | 08/03/07 | <0.01 | <0.010 | 25.7 | -- | <0.01 | <0.005 |
| HOLLISTER-2 | 01/28/08 | <0.01 | <0.010 | 25.8 | -- | <0.02 | <0.005 |
| HOLLISTER-2 | 02/13/09 | <0.01 | 0.015 | 25.6 | -- | <0.02 | <0.005 |
| HOLLISTER-2 | 01/25/10 | <0.01 | <0.010 | 20.9 | -- | <0.02 | <0.005 |
| HOLLISTER-2 | 01/24/11 | 0.00242 | <0.010 | 21.0 | -- | <0.02 | 0.005 |
| HOLLISTER-2 | 1/30/2012 | 0.00225 | <0.010 | 24.7 | -- | <0.02 | <0.005 |
| **HOLLISTER-2** | **01/28/13** | **0.00250** | **<0.010** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| I-37 | 05/25/99 | 0.11 | -- | -- | -- | -- | -- |
| I-37 | 06/24/99 | 0.13 | -- | 102 | -- | <0.01 | <0.01 |
| I-37 | 07/21/99 | 0.13 | -- | 111 | -- | 0.01 | <0.01 |
| I-37 | 08/19/99 | 0.13 | -- | 110 | -- | -- | -- |
| I-37 | 09/15/99 | 0.13 | -- | -- | -- | -- | -- |
| I-37 | 10/21/99 | 0.11 | -- | 104 | -- | <0.01 | <0.01 |
| I-37 | 11/17/99 | 0.04 | -- | 98 | -- | -- | <0.01 |
| I-37 | 12/15/99 | 0.12 | -- | 73 | -- | -- | <0.010 |
| I-37 | 01/19/00 | 0.09 | -- | 99 | 61 | 0.02 | <0.010 |
| I-37 | 02/16/00 | 0.08 | -- | 106 | -- | -- | -- |
| I-37 | 03/16/00 | 0.09 | -- | 107 | -- | -- | -- |
| I-37 | 04/20/00 | 0.13 | -- | 124 | 55 | <0.01 | <0.010 |
| I-37 | 05/24/00 | 0.08 | -- | 58 | -- | -- | -- |
| I-37 | 06/21/00 | 0.02 | -- | 115 | -- | -- | -- |
| I-37 | 07/19/00 | 0.08 | -- | 132 | 70 | <0.01 | <0.010 |
| I-37 | 08/16/00 | 0.05 | -- | 110 | -- | -- | -- |
| I-37 | 09/20/00 | 0.06 | -- | 140 | -- | -- | -- |
| I-37 | 10/17/00 | <0.01 | -- | 128 | 71 | 0.01 | <0.010 |
| I-37 | 11/17/00 | 0.03 | -- | 135 | -- | -- | -- |
| I-37 | 12/12/00 | 0.03 | -- | 116 | -- | -- | -- |
| I-37 | 01/17/01 | <0.01 | -- | 131 | 61 | <0.01 | <0.010 |
| I-37 | 02/14/01 | <0.01 | -- | -- | -- | -- | -- |
| I-37 | 03/12/01 | 0.03 | -- | -- | -- | -- | -- |
| I-37 | 04/17/01 | 0.02 | -- | 139 | 63 | <0.01 | <0.010 |
| I-37 | 05/15/01 | 0.01 | -- | -- | -- | -- | -- |
| I-37 | 06/20/01 | 0.01 | -- | -- | -- | -- | -- |
| I-37 | 07/17/01 | 0.03 | -- | 118 | 64 | 0.01 | <0.010 |
| I-37 | 08/14/01 | 0.02 | -- | -- | -- | -- | -- |
| I-37 | 09/17/01 | <0.01 | -- | -- | -- | -- | -- |
| I-37 | 10/16/01 | 0.04 | -- | 114 | 65 | 0.02 | <0.010 |
| I-37 | 11/13/01 | 0.03 | -- | -- | -- | -- | -- |
| I-37 | 12/13/01 | 0.04 | -- | -- | -- | -- | -- |
| I-37 | 01/15/02 | 0.04 | -- | 113 | 62 | <0.01 | <0.010 |
| I-37 | 02/18/02 | 0.04 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| I-37 | 03/13/02 | 0.04 | -- | -- | -- | -- | -- |
| I-37 | 04/16/02 | 0.03 | -- | 128 | 60 | <0.01 | <0.010 |
| I-37 | 07/12/02 | 0.02 | -- | 113 | 55 | 0.02 | <0.005 |
| I-37 | 11/04/02 | 0.04 | -- | 143 | 58 | <0.01 | <0.005 |
| I-37 | 02/12/03 | 0.04 | -- | 485 | 58 | <0.01 | <0.005 |
| I-37 | 05/07/03 | 0.03 | -- | 137 | 58 | <0.01 | <0.005 |
| I-37 | 08/12/03 | 0.03 | -- | 142 | 60 | <0.01 | <0.005 |
| I-37 | 11/18/03 | 0.03 | -- | 168 | 52 | 0.02 | <0.005 |
| I-37 | 02/10/04 | 0.04 | -- | 171 | 55 | <0.01 | <0.005 |
| I-37 | 05/04/04 | 0.01 | -- | 152 | 65 | <0.01 | <0.005 |
| I-37 | 07/20/04 | 0.02 | -- | 161 | 63 | 0.03 | <0.005 |
| I-37 | 02/01/05 | 0.04 | -- | 238 | -- | <0.01 | <0.005 |
| I-37 | 02/16/06 | 0.04 | -- | 233 | -- | <0.01 | <0.005 |
| I-37 | 01/29/07 | 0.04 | -- | 198 | -- | <0.01 | <0.005 |
| I-37 | 01/29/08 | 0.02 | 0.031 | 251 | -- | <0.02 | <0.005 |
| I-37 | 05/05/08 | -- | 0.023 | 190 | -- | <0.02 | <0.005 |
| I-37 | 08/04/08 | -- | 0.017 | 185 | -- | 0.03 | <0.005 |
| I-37 | 11/10/08 | -- | 0.033 | 189 | -- | 0.02 | <0.005 |
| I-37 | 02/13/09 | 0.03 | 0.034 | 194 | -- | 0.02 | <0.005 |
| I-37 | 5/14/09 | -- | 0.03 | 98.5 | -- | <0.02 | <0.005 |
| I-37 | 08/05/09 | -- | 0.024 | 210 | -- | <0.02 | <0.005 |
| I-37 | 10/29/09 | -- | 0.024 | 199 | -- | <0.02 | <0.005 |
| I-37 | 01/25/10 | 0.03 | 0.033 | 202 | -- | <0.02 | <0.005 |
| I-37 | 05/12/10 | -- | 0.033 | 208 | -- | <0.02 | <0.005 |
| I-37 | 8/2/2010 | -- | 0.026 | 196 | -- | <0.02 | <0.005 |
| I-37 | 01/24/11 | 0.0512 | 0.052 | 226 | -- | 0.02 | <0.005 |
| I-37 | 1/30/2012 | 0.0835 | 0.085 | 300 | -- | <0.02 | <0.005 |
| **I-37** | **01/28/13** | **0.0881** | **0.090** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| SEGARS-6 | 01/22/98 | <0.01 | -- | 6 | 17 | <0.01 | <0.01 |
| SEGARS-6 | 02/25/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 03/19/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 04/13/98 | <0.01 | -- | 11 | 14 | <0.01 | -- |
| SEGARS-6 | 05/11/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 06/15/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 07/13/98 | <0.01 | -- | 7 | 13 | <0.01 | -- |
| SEGARS-6 | 08/17/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 09/14/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 10/12/98 | <0.01 | -- | 10 | 22 | <0.01 | -- |
| SEGARS-6 | 11/09/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 12/07/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 01/19/99 | <0.01 | -- | 7 | 16 | 0.01 | <0.01 |
| SEGARS-6 | 02/16/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 03/16/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 04/22/99 | <0.01 | -- | 11 | 24 | <0.01 | -- |
| SEGARS-6 | 05/18/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 06/22/99 | <0.01 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| SEGARS-6 | 07/19/99 | <0.01 | -- | 16 | 24 | <0.01 | -- |
| SEGARS-6 | 08/17/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 09/13/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 10/18/99 | <0.01 | -- | 10 | 25 | <0.01 | -- |
| SEGARS-6 | 11/15/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 12/13/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 01/14/00 | <0.01 | -- | 8 | 18 | <0.01 | <0.010 |
| SEGARS-6 | 02/11/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 03/14/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 04/19/00 | <0.01 | -- | 9 | 17 | <0.01 | -- |
| SEGARS-6 | 05/24/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 06/19/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 07/17/00 | <0.01 | -- | 13 | 72 | <0.01 | -- |
| SEGARS-6 | 08/14/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 09/18/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 10/16/00 | <0.01 | -- | 10 | 49 | <0.01 | -- |
| SEGARS-6 | 11/13/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 12/11/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 01/12/01 | <0.01 | -- | 9.3 | 18 | <0.01 | <0.010 |
| SEGARS-6 | 02/12/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 03/12/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 04/16/01 | <0.01 | -- | 10 | 21 | <0.01 | -- |
| SEGARS-6 | 05/14/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 06/18/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 07/16/01 | <0.01 | -- | 12 | 21 | <0.01 | -- |
| SEGARS-6 | 08/13/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 09/17/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 10/15/01 | <0.01 | -- | 95 | 42 | <0.01 | -- |
| SEGARS-6 | 11/12/01 | <0.01 | -- | 9.0 | -- | -- | -- |
| SEGARS-6 | 12/10/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 01/14/02 | <0.01 | -- | 8.5 | 27 | <0.01 | <0.010 |
| SEGARS-6 | 02/18/02 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 03/12/02 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-6 | 04/15/02 | <0.01 | -- | 9.4 | 23 | <0.01 | -- |
| SEGARS-6 | 07/08/02 | <0.01 | -- | 12 | 23 | <0.01 | -- |
| SEGARS-6 | 11/04/02 | <0.01 | -- | 12 | 27 | <0.01 | -- |
| SEGARS-6 | 02/10/03 | <0.01 | -- | 11 | 23 | <0.01 | <0.005 |
| SEGARS-6 | 05/05/03 | <0.01 | -- | 11 | 23 | <0.01 | -- |
| SEGARS-6 | 08/11/03 | <0.01 | -- | 21 | 39 | <0.01 | -- |
| SEGARS-6 | 11/14/03 | <0.01 | -- | 16 | 28 | <0.01 | -- |
| SEGARS-6 | 02/09/04 | <0.01 | -- | 13 | 26 | <0.01 | <0.005 |
| SEGARS-6 | 05/04/04 | <0.01 | -- | 20 | 44 | <0.01 | -- |
| SEGARS-6 | 07/19/04 | <0.01 | -- | 21 | 47 | <0.01 | -- |
| SEGARS-6 | 01/31/05 | <0.01 | -- | 18 | -- | <0.01 | <0.005 |
| SEGARS-6 | 08/16/05 | <0.01 | -- | 27 | -- | <0.01 | <0.005 |
| SEGARS-6 | 02/15/06 | <0.01 | -- | 21 | -- | <0.01 | <0.005 |
| SEGARS-6 | 08/07/06 | <0.01 | -- | 31 | -- | <0.01 | <0.005 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| SEGARS-6 | 01/25/07 | <0.01 | -- | 24.4 | -- | <0.01 | <0.005 |
| SEGARS-6 | 08/03/07 | <0.01 | <0.010 | 32.7 | -- | <0.01 | <0.005 |
| SEGARS-6 | 01/28/08 | <0.01 | <0.010 | 35.7 | -- | <0.02 | <0.005 |
| SEGARS-6 | 02/13/09 | 0.01 | 0.012 | 23.2 | -- | <0.02 | <0.005 |
| SEGARS-6 | 01/25/10 | <0.01 | <0.010 | 26.4 | -- | <0.02 | <0.005 |
| SEGARS-6 | 01/24/11 | 0.00312 | 0.036 | 21.2 | -- | 0.38 | 0.005 |
| SEGARS-6 | 1/30/2012 | 0.00339 | <0.010 | 26.1 | -- | <0.02 | <0.005 |
| **SEGARS-6** | **01/28/13** | **0.00344** | **<0.010** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| SEGARS-7 | 01/21/98 | <0.01 | -- | 23 | 50 | <0.01 | <0.01 |
| SEGARS-7 | 02/25/98 | 0.02 | -- | -- | -- | -- | -- |
| SEGARS-7 | 03/09/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 03/19/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 04/13/98 | <0.01 | -- | 22 | 36 | <0.01 | -- |
| SEGARS-7 | 05/11/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 06/15/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 07/13/98 | <0.01 | -- | 27 | 45 | <0.01 | -- |
| SEGARS-7 | 08/17/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 09/14/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 10/12/98 | <0.01 | -- | 28 | 60 | <0.01 | -- |
| SEGARS-7 | 11/09/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 12/07/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 01/19/99 | <0.01 | -- | 31 | 59 | <0.01 | <0.01 |
| SEGARS-7 | 02/16/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 03/16/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 04/26/99 | <0.01 | -- | 30 | 57 | <0.01 | -- |
| SEGARS-7 | 05/18/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 06/22/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 07/19/99 | <0.01 | -- | 39 | 67 | <0.01 | -- |
| SEGARS-7 | 08/17/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 09/13/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 10/18/99 | <0.01 | -- | 36 | 67 | <0.01 | -- |
| SEGARS-7 | 11/15/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 12/13/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 01/14/00 | <0.01 | -- | 31 | 58 | <0.01 | <0.010 |
| SEGARS-7 | 02/11/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 03/14/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 04/19/00 | <0.01 | -- | 43 | 66 | <0.01 | -- |
| SEGARS-7 | 05/22/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 06/19/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 07/17/00 | <0.01 | -- | 46 | 69 | <0.01 | -- |
| SEGARS-7 | 08/14/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 09/18/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 10/16/00 | <0.01 | -- | 53 | 56 | <0.01 | -- |
| SEGARS-7 | 12/11/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 01/12/01 | <0.01 | -- | 29 | 51 | <0.01 | <0.010 |
| SEGARS-7 | 02/12/01 | <0.01 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| SEGARS-7 | 03/12/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 04/16/01 | <0.01 | -- | 30 | 53 | <0.01 | -- |
| SEGARS-7 | 05/14/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 06/18/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 07/16/01 | <0.01 | -- | 44 | 64 | <0.01 | -- |
| SEGARS-7 | 08/13/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 09/17/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 10/15/01 | <0.01 | -- | 27 | 54 | <0.01 | -- |
| SEGARS-7 | 11/12/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 12/10/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 01/14/02 | <0.01 | -- | 28 | 74 | <0.01 | <0.010 |
| SEGARS-7 | 02/18/02 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 03/12/02 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-7 | 04/15/02 | <0.01 | -- | 24 | 51 | <0.01 | -- |
| SEGARS-7 | 07/08/02 | <0.01 | -- | 32 | 61 | <0.01 | -- |
| SEGARS-7 | 11/04/02 | <0.01 | -- | 34 | 69 | <0.01 | -- |
| SEGARS-7 | 02/10/03 | <0.01 | -- | 28 | 54 | <0.01 | <0.005 |
| SEGARS-7 | 05/05/03 | <0.01 | -- | 35 | 62 | <0.01 | -- |
| SEGARS-7 | 08/11/03 | <0.01 | -- | 21 | 42 | <0.01 | -- |
| SEGARS-7 | 11/14/03 | <0.01 | -- | 27 | 44 | <0.01 | -- |
| SEGARS-7 | 02/09/04 | <0.01 | -- | 17 | 32 | <0.01 | <0.005 |
| SEGARS-7 | 05/04/04 | <0.01 | -- | 18 | 39 | <0.01 | -- |
| SEGARS-7 | 07/19/04 | <0.01 | -- | 14 | 34 | <0.01 | -- |
| SEGARS-7 | 01/31/05 | <0.01 | -- | 22 | -- | <0.01 | <0.005 |
| SEGARS-7 | 08/16/05 | <0.01 | -- | 30 | -- | <0.01 | <0.005 |
| SEGARS-7 | 02/15/06 | <0.01 | -- | 20 | -- | <0.01 | <0.005 |
| SEGARS-7 | 08/07/06 | <0.01 | -- | 13 | -- | <0.01 | <0.005 |
| SEGARS-7 | 01/25/07 | <0.01 | -- | 15.2 | -- | <0.01 | <0.005 |
| SEGARS-7 | 08/03/07 | <0.01 | <0.010 | 15.3 | -- | <0.01 | <0.005 |
| SEGARS-7 | 01/28/08 | <0.01 | <0.010 | 21.2 | -- | <0.02 | 0.005 |
| SEGARS-7 | 02/13/09 | <0.01 | 0.01 | 15.3 | -- | <0.02 | 0.005 |
| SEGARS-7 | 01/25/10 | <0.01 | <0.010 | 14.2 | -- | <0.02 | 0.005 |
| SEGARS-7 | 01/24/11 | 0.00354 | <0.010 | 15.8 | -- | <0.02 | 0.006 |
| SEGARS-7 | 1/30/2012 | 0.00383 | <0.010 | 16.7 | -- | <0.02 | 0.005 |
| **SEGARS-7** | **01/28/13** | **0.00310** | **<0.010** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| SEGARS-8 | 01/02/98 | <0.01 | -- | 5 | 12 | <0.01 | <0.01 |
| SEGARS-8 | 01/22/98 | <0.01 | -- | 8 | 16 | <0.01 | <0.01 |
| SEGARS-8 | 02/25/98 | <0.01 | -- | 13 | 11 | <0.01 | <0.01 |
| SEGARS-8 | 03/19/98 | <0.01 | -- | 7 | 12 | <0.01 | <0.01 |
| SEGARS-8 | 04/13/98 | <0.01 | -- | 10 | 12 | <0.01 | <0.01 |
| SEGARS-8 | 05/11/98 | <0.01 | -- | 28 | 13 | <0.01 | <0.01 |
| SEGARS-8 | 06/15/98 | <0.01 | -- | 6 | 10 | <0.01 | <0.01 |
| SEGARS-8 | 07/13/98 | <0.01 | -- | 6 | 12 | <0.01 | <0.01 |
| SEGARS-8 | 08/17/98 | <0.01 | -- | 6 | 12 | <0.01 | <0.01 |
| SEGARS-8 | 09/14/98 | <0.01 | -- | 7 | 12 | <0.01 | <0.01 |
| SEGARS-8 | 10/12/98 | <0.01 | -- | 10 | 17 | <0.01 | <0.01 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| SEGARS-8 | 11/09/98 | <0.01 | -- | 7 | 16 | <0.01 | <0.01 |
| SEGARS-8 | 12/07/98 | <0.01 | -- | 16 | 16 | <0.01 | <0.01 |
| SEGARS-8 | 01/19/99 | <0.01 | -- | 7 | 15 | <0.01 | <0.01 |
| SEGARS-8 | 02/16/99 | <0.01 | -- | 6 | 16 | <0.01 | <0.01 |
| SEGARS-8 | 03/16/99 | <0.01 | -- | 7 | 15 | <0.01 | 0.01 |
| SEGARS-8 | 04/22/99 | <0.01 | -- | 8 | 16 | <0.01 | <0.01 |
| SEGARS-8 | 05/18/99 | <0.01 | -- | 10 | 15 | <0.01 | <0.01 |
| SEGARS-8 | 06/22/99 | <0.01 | -- | 30 | 15 | <0.01 | <0.01 |
| SEGARS-8 | 07/19/99 | <0.01 | -- | 85 | 60 | <0.01 | <0.01 |
| SEGARS-8 | 07/30/99 | <0.01 | -- | 13 | 16 | <0.01 | <0.01 |
| SEGARS-8 | 08/17/99 | <0.01 | -- | 7 | 16 | <0.01 | <0.01 |
| SEGARS-8 | 09/13/99 | <0.01 | -- | 7 | 14 | <0.01 | <0.01 |
| SEGARS-8 | 10/18/99 | <0.01 | -- | 61 | 15 | <0.01 | <0.01 |
| SEGARS-8 | 11/15/99 | <0.01 | -- | 68 | 18 | <0.01 | <0.01 |
| SEGARS-8 | 12/13/99 | <0.01 | -- | 18 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 01/14/00 | <0.01 | -- | 8 | 17 | <0.01 | <0.010 |
| SEGARS-8 | 02/11/00 | <0.01 | -- | 8 | 17 | <0.01 | <0.010 |
| SEGARS-8 | 03/14/00 | <0.01 | -- | 5 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 04/19/00 | <0.01 | -- | 4 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 05/24/00 | <0.01 | -- | 6 | 14 | <0.01 | <0.010 |
| SEGARS-8 | 06/19/00 | <0.01 | -- | 5 | 14 | <0.01 | <0.010 |
| SEGARS-8 | 07/17/00 | <0.01 | -- | 9 | 15 | <0.01 | <0.010 |
| SEGARS-8 | 08/14/00 | <0.01 | -- | 6 | 18 | <0.01 | <0.010 |
| SEGARS-8 | 09/18/00 | <0.01 | -- | 10 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 10/16/00 | <0.01 | -- | 15 | 15 | <0.01 | <0.010 |
| SEGARS-8 | 11/13/00 | <0.01 | -- | 10 | 17 | <0.01 | <0.010 |
| SEGARS-8 | 12/11/00 | <0.01 | -- | 12 | 18 | <0.01 | <0.010 |
| SEGARS-8 | 01/12/01 | <0.01 | -- | 10 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 02/12/01 | <0.01 | -- | 7.8 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 03/12/01 | <0.01 | -- | 10 | 19 | <0.01 | <0.010 |
| SEGARS-8 | 04/16/01 | <0.01 | -- | 8.6 | 17 | <0.01 | <0.010 |
| SEGARS-8 | 05/14/01 | <0.01 | -- | 5.3 | 13 | <0.01 | <0.010 |
| SEGARS-8 | 06/18/01 | <0.01 | -- | 4.9 | 15 | <0.01 | <0.010 |
| SEGARS-8 | 07/16/01 | <0.01 | -- | 10 | 19 | <0.01 | <0.010 |
| SEGARS-8 | 08/13/01 | <0.01 | -- | 5.6 | 14 | <0.01 | <0.010 |
| SEGARS-8 | 09/17/01 | <0.01 | -- | 6.2 | 34 | <0.01 | <0.010 |
| SEGARS-8 | 10/15/01 | <0.01 | -- | 5.5 | 14 | <0.01 | <0.010 |
| SEGARS-8 | 11/12/01 | <0.01 | -- | 7.5 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 12/10/01 | <0.01 | -- | 6.6 | 15 | <0.01 | <0.010 |
| SEGARS-8 | 01/14/02 | <0.01 | -- | 6.6 | 20 | <0.01 | <0.010 |
| SEGARS-8 | 02/18/02 | <0.01 | -- | 6.8 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 03/12/02 | <0.01 | -- | 9.2 | 16 | <0.01 | <0.010 |
| SEGARS-8 | 04/15/02 | <0.01 | -- | 4.4 | 14 | <0.01 | <0.010 |
| SEGARS-8 | 07/08/02 | <0.01 | -- | 9.2 | 16 | <0.01 | <0.005 |
| SEGARS-8 | 11/04/02 | <0.01 | -- | 8.4 | 19 | <0.01 | 0.006 |
| SEGARS-8 | 02/10/03 | <0.01 | -- | 6.3 | 14 | <0.01 | <0.005 |
| SEGARS-8 | 05/05/03 | <0.01 | -- | 5.4 | 13 | <0.01 | 0.006 |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| SEGARS-8 | 08/11/03 | <0.01 | -- | 9.8 | 19 | <0.01 | <0.005 |
| SEGARS-8 | 11/14/03 | <0.01 | -- | 8.1 | 14 | <0.01 | <0.005 |
| SEGARS-8 | 02/09/04 | <0.01 | -- | 8 | 16 | <0.01 | 0.006 |
| SEGARS-8 | 05/04/04 | <0.01 | -- | 4.2 | 14 | <0.01 | 0.007 |
| SEGARS-8 | 07/19/04 | <0.01 | -- | 4.1 | 13 | <0.01 | 0.006 |
| SEGARS-8 | 01/31/05 | <0.01 | -- | 8.2 | -- | <0.01 | 0.005 |
| SEGARS-8 | 08/16/05 | <0.01 | -- | 6.3 | -- | <0.01 | 0.006 |
| SEGARS-8 | 02/15/06 | <0.01 | -- | 9.3 | -- | <0.01 | <0.005 |
| SEGARS-8 | 08/07/06 | <0.01 | -- | 15 | -- | <0.01 | <0.005 |
| SEGARS-8 | 01/25/07 | <0.01 | -- | 9.4 | -- | <0.01 | 0.006 |
| SEGARS-8 | 08/03/07 | <0.01 | <0.010 | 17.9 | -- | <0.01 | <0.005 |
| SEGARS-8 | 01/28/08 | <0.01 | <0.010 | 17.2 | -- | <0.02 | 0.005 |
| SEGARS-8 | 02/13/09 | <0.01 | 0.011 | 22.4 | -- | <0.02 | <0.005 |
| SEGARS-8 | 01/25/10 | <0.01 | <0.010 | 27 | -- | <0.02 | <0.005 |
| SEGARS-8 | 01/24/11 | 0.00224 | <0.010 | 24.8 | -- | <0.02 | 0.005 |
| SEGARS-8 | 1/30/2012 | 0.00273 | <0.010 | 20.2 | -- | <0.02 | <0.005 |
| **SEGARS-8** | **01/28/13** | **0.00241** | **<0.010** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| SEGARS-9 | 01/21/98 | <0.01 | -- | 39 | 72 | <0.01 | <0.01 |
| SEGARS-9 | 02/25/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 03/19/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 04/13/98 | <0.01 | -- | 38 | 54 | <0.01 | -- |
| SEGARS-9 | 05/11/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 06/15/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 07/13/98 | <0.01 | -- | 37 | 55 | <0.01 | -- |
| SEGARS-9 | 08/17/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 09/14/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 10/12/98 | <0.01 | -- | 37 | 68 | <0.01 | -- |
| SEGARS-9 | 11/09/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 12/07/98 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 01/19/99 | <0.01 | -- | 39 | 68 | <0.01 | <0.01 |
| SEGARS-9 | 02/16/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 03/16/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 04/22/99 | <0.01 | -- | 46 | 68 | <0.01 | -- |
| SEGARS-9 | 05/18/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 06/22/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 07/19/99 | <0.01 | -- | 46 | 73 | <0.01 | -- |
| SEGARS-9 | 08/17/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 09/13/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 10/22/99 | <0.01 | -- | 48 | 75 | <0.01 | -- |
| SEGARS-9 | 11/15/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 12/13/99 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 01/14/00 | <0.01 | -- | 50 | 75 | <0.01 | <0.010 |
| SEGARS-9 | 02/11/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 03/16/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 04/19/00 | <0.01 | -- | 51 | 68 | <0.01 | -- |
| SEGARS-9 | 05/24/00 | <0.01 | -- | -- | -- | -- | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| SEGARS-9 | 06/19/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 07/17/00 | <0.01 | -- | 45 | 72 | <0.01 | -- |
| SEGARS-9 | 08/14/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 09/18/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 10/16/00 | <0.01 | -- | 39 | 76 | <0.01 | -- |
| SEGARS-9 | 11/13/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 12/11/00 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 01/12/01 | <0.01 | -- | 46 | 67 | <0.01 | <0.010 |
| SEGARS-9 | 02/12/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 03/12/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 04/16/01 | <0.01 | -- | 44 | 68 | <0.01 | -- |
| SEGARS-9 | 05/14/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 06/18/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 07/16/01 | <0.01 | -- | 49 | 70 | <0.01 | -- |
| SEGARS-9 | 08/13/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 09/17/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 10/15/01 | <0.01 | -- | 44 | 78 | <0.01 | -- |
| SEGARS-9 | 11/12/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 12/10/01 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 01/14/02 | <0.01 | -- | 38 | 92 | <0.01 | <0.010 |
| SEGARS-9 | 02/18/02 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 03/12/02 | <0.01 | -- | -- | -- | -- | -- |
| SEGARS-9 | 04/15/02 | <0.01 | -- | 41 | 74 | <0.01 | -- |
| SEGARS-9 | 07/08/02 | <0.01 | -- | 41 | 75 | <0.01 | -- |
| SEGARS-9 | 11/04/02 | <0.01 | -- | 39 | 80 | <0.01 | -- |
| SEGARS-9 | 02/10/03 | <0.01 | -- | 38 | 71 | <0.01 | <0.005 |
| SEGARS-9 | 05/05/03 | <0.01 | -- | 41 | 73 | <0.01 | -- |
| SEGARS-9 | 08/11/03 | <0.01 | -- | 36 | 74 | <0.01 | -- |
| SEGARS-9 | 11/14/03 | <0.01 | -- | 46 | 64 | <0.01 | -- |
| SEGARS-9 | 02/09/04 | <0.01 | -- | 40 | 64 | <0.01 | <0.005 |
| SEGARS-9 | 05/04/04 | <0.01 | -- | 34 | 68 | <0.01 | -- |
| SEGARS-9 | 07/19/04 | <0.01 | -- | 33 | 74 | <0.01 | -- |
| SEGARS-9 | 01/31/05 | <0.01 | -- | 34 | -- | <0.01 | <0.005 |
| SEGARS-9 | 08/16/05 | <0.01 | -- | 37 | -- | <0.01 | <0.005 |
| SEGARS-9 | 02/15/06 | <0.01 | -- | 28 | -- | <0.01 | <0.005 |
| SEGARS-9 | 08/07/06 | <0.01 | -- | 23 | -- | <0.01 | <0.005 |
| SEGARS-9 | 01/25/07 | <0.01 | -- | 18.6 | -- | <0.01 | <0.005 |
| SEGARS-9 | 08/03/07 | <0.01 | <0.010 | 22.3 | -- | <0.01 | <0.005 |
| SEGARS-9 | 01/28/08 | <0.01 | <0.010 | 18.4 | -- | <0.02 | 0.005 |
| SEGARS-9 | 02/13/09 | <0.01 | 0.01 | 13.7 | -- | <0.02 | <0.005 |
| SEGARS-9 | 01/25/10 | <0.01 | <0.010 | 13.9 | -- | <0.02 | 0.005 |
| SEGARS-9 | 01/24/11 | 0.00237 | <0.010 | 13.7 | -- | <0.02 | 0.006 |
| SEGARS-9 | 1/30/2012 | 0.00286 | <0.010 | 14.9 | -- | <0.02 | <0.005 |
| **SEGARS-9** | **01/28/13** | **0.00281** | **<0.010** | **--** | **--** | **--** | **<0.005** |
| | | | | | | | |
| VWP-4 | 01/19/98 | <0.01 | -- | 15 | 42 | <0.01 | <0.01 |
| VWP-4 | 04/14/98 | <0.01 | -- | 16 | 33 | <0.01 | -- |

**TABLE 4**

**Hexavalent Chromium, Total Dissolved Chromium, Sulfate, Calcium, Manganese, Arsenic**
**January 1998 through January 2013**
**Valley Wood Preserving Site**
**Turlock, CA.**

| SITE | DATE | Hexavalent Chromium (mg/l) | Total Dissolved Chromium* (mg/l) | Sulfate (mg/l) | Calcium (mg/l) | Manganese (mg/l) | Arsenic (mg/l) |
|---|---|---|---|---|---|---|---|
| VWP-4 | 07/13/98 | <0.01 | -- | 14 | 33 | <0.01 | -- |
| VWP-4 | 10/12/98 | <0.01 | -- | 17 | 47 | <0.01 | -- |
| VWP-4 | 01/19/99 | <0.01 | -- | 17 | 45 | <0.01 | <0.01 |
| VWP-4 | 04/22/99 | <0.01 | -- | 17 | 46 | <0.01 | -- |
| VWP-4 | 10/18/99 | <0.01 | -- | 17 | 48 | <0.01 | -- |
| VWP-4 | 01/21/00 | <0.01 | -- | 20 | 46 | <0.01 | <0.010 |
| VWP-4 | 04/19/00 | <0.01 | -- | 18 | 44 | <0.01 | -- |
| VWP-4 | 07/17/00 | <0.01 | -- | 19 | 45 | <0.01 | -- |
| VWP-4 | 10/16/00 | <0.01 | -- | 16 | 47 | <0.01 | -- |
| VWP-4 | 01/12/01 | <0.01 | -- | 21 | 45 | <0.01 | <0.010 |
| VWP-4 | 04/16/01 | <0.01 | -- | 20 | 45 | <0.01 | -- |
| VWP-4 | 07/16/01 | <0.01 | -- | 19 | 43 | <0.01 | -- |
| VWP-4 | 10/15/01 | <0.01 | -- | 18 | 48 | <0.01 | -- |
| VWP-4 | 01/14/02 | <0.01 | -- | 15 | 57 | <0.01 | -- |
| VWP-4 | 04/15/02 | <0.01 | -- | 17 | 47 | <0.01 | -- |
| VWP-4 | 07/08/02 | <0.01 | -- | 24 | 46 | <0.01 | <0.005 |
| VWP-4 | 11/04/02 | <0.01 | -- | 17 | 49 | <0.01 | -- |
| VWP-4 | 02/10/03 | <0.01 | -- | 17 | 44 | <0.01 | <0.005 |
| VWP-4 | 05/05/03 | <0.01 | -- | 18 | 44 | <0.01 | -- |
| VWP-4 | 08/11/03 | <0.01 | -- | 17 | 45 | <0.01 | <0.005 |
| VWP-4 | 11/14/03 | <0.01 | -- | 15 | 39 | <0.01 | <0.005 |
| VWP-4 | 02/09/04 | <0.01 | -- | 16 | 41 | <0.01 | <0.005 |
| VWP-4 | 05/04/04 | <0.01 | -- | 16 | 49 | <0.01 | -- |
| VWP-4 | 07/19/04 | <0.01 | -- | 14 | 44 | <0.01 | -- |
| VWP-4 | 01/31/05 | <0.01 | -- | 16 | -- | <0.01 | <0.005 |
| VWP-4 | 08/16/05 | <0.01 | -- | 17 | -- | <0.01 | <0.005 |
| VWP-4 | 02/17/06 | <0.01 | -- | 15 | -- | <0.01 | <0.005 |
| VWP-4 | 08/07/06 | <0.01 | -- | 13 | -- | <0.01 | <0.005 |
| VWP-4 | 01/25/07 | <0.01 | -- | 12.6 | -- | <0.01 | <0.005 |
| VWP-4 | 08/03/07 | <0.01 | <0.010 | 13.2 | -- | <0.01 | <0.005 |
| VWP-4 | 01/28/08 | <0.01 | <0.010 | 12.8 | -- | <0.02 | 0.006 |
| VWP-4 | 02/13/09 | 0.01 | <0.010 | 14.5 | -- | <0.02 | <0.005 |
| VWP-4 | 01/25/10 | <0.01 | <0.010 | 15.1 | -- | <0.02 | <0.005 |
| VWP-4 | 01/24/11 | 0.00200 | <0.010 | 16.0 | -- | <0.02 | 0.005 |
| VWP-4 | 1/30/2012 | 0.00258 | <0.010 | 16.6 | -- | <0.02 | <0.005 |
| **VWP-4** | **01/28/13** | **0.00183** | **<0.010** | **--** | **--** | **--** | **<0.005** |

* August 2007 samples were analyzed for Total Chromium
Historical data for wells that have been abandoned at the site are included in the *Combined First Quarter 2009 and Annual 2008 Groundwater Monitoring Report* (MWH, March 15, 2009) and in the *Annual 2010 Groundwater Monitoring Report* (MWH, March 15, 2011)

# Table 5

## Groundwater Parameter Measurements Summary

## November 2004 through January 2013

## Valley Wood Preserving
## Turlock California

| Well ID | Date | Groundwater Parameter Measurements | | | |
|---|---|---|---|---|---|
| | | pH | Conductivity umhos/cm | Temperature C | ORP mV |
| GW-1 | 11/11/2004 | 7.30 | 738 | 21.8 | -1 |
| GW-1 | 2/1/2005 | 7.30 | 630 | 15.2 | -31 |
| GW-1 | 5/17/2005 | 6.90 | 870 | 20.2 | -29 |
| GW-1 | 8/17/2005 | 7.30 | 723 | 27.1 | -23 |
| GW-1 | 11/16/2005 | 7.30 | 730 | 18.7 | -26 |
| GW-1 | 2/17/2006 | 7.44 | 765 | 19.8 | 24 |
| GW-1 | 5/8/2006 | 7.20 | 684 | 21.0 | 40 |
| GW-1 | 8/7/2006 | 7.65 | 759 | 23.9 | 162 |
| GW-1 | 11/7/2006 | 7.55 | 782 | 25.7 | 120 |
| GW-1 | 1/26/2007 | 7.04 | 750 | 19.2 | 183 |
| GW-1 | 5/15/2007 | 7.62 | 750 | 21.0 | 230 |
| GW-1 | 8/6/2007 | 7.25 | 776 | 22.6 | 179 |
| GW-1 | 11/6/2007 | 6.48 | 17990 | 22.8 | -99 |
| GW-1 | 2/8/2008 | 6.64 | 610 | 19.2 | -42 |
| GW-1 | 5/5/2008 | 7.14 | 4.27 | 20.8 | 32 |
| GW-1 | 11/10/2008 | 7.03 | 5.81 | 23.5 | 34 |
| GW-1 | 2/13/2009 | 6.86 | 5.17 | 19.9 | 89 |
| GW-1 | 5/14/2009 | 7.39 | 3.92 | 23.0 | 152 |
| GW-1 | 8/5/2009 | 7.52 | 3.79 | 22.8 | 97 |
| GW-1 | 10/29/2009 | 7.62 | 3.16 | 24.0 | 204 |
| GW-1 | 1/25/2010 | 7.99 | 2.89 | 19.8 | 216 |
| GW-1 | 5/12/2010 | 7.80 | 2.69 | 21.9 | 135 |
| GW-1 | 8/2/2010 | 7.95 | 2.37 | 23.6 | 122 |
| GW-1 | 1/24/2011 | 7.76 | 1487 | 19.8 | 272 |
| GW-1 | 8/1/2011 | 8.07 | 1141 | 24.5 | 216 |
| GW-1 | 1/30/2012 | 7.89 | 818 | 20.9 | 227 |
| GW-1 | 1/28/2013 | 7.83 | 781 | 18.6 | 231 |
| GW-2 | 11/11/2004 | 7.80 | 834 | 19.6 | -711 |
| GW-2 | 2/1/2005 | 7.40 | 663 | 14.5 | 4 |
| GW-2 | 5/17/2005 | 7.50 | 914 | 20.2 | 2 |
| GW-2 | 8/16/2005 | 7.50 | 757 | 26.6 | 2 |
| GW-2 | 11/16/2005 | 7.10 | 793 | 18.6 | 40 |
| GW-2 | 2/17/2006 | 7.45 | 910 | 18.4 | 36 |
| GW-2 | 5/8/2006 | 7.21 | 620 | 20.0 | 18 |
| GW-2 | 8/8/2006 | 7.69 | 828 | 21.1 | 130 |
| GW-2 | 11/7/2006 | 7.61 | 958 | 23.3 | 52 |

# Table 5

## Groundwater Parameter Measurements Summary

## November 2004 through January 2013

## Valley Wood Preserving
## Turlock California

| Well ID | Date | Groundwater Parameter Measurements | | | |
|---|---|---|---|---|---|
| | | pH | Conductivity umhos/cm | Temperature C | ORP mV |
| GW-2 | 1/26/2007 | 7.12 | 922 | 20.0 | 150 |
| GW-2 | 5/15/2007 | 7.42 | 862 | 21.8 | 71 |
| GW-2 | 8/6/2007 | 6.90 | 920 | 21.6 | 185 |
| GW-2 | 11/6/2007 | 6.16 | 10390 | 19.8 | -10 |
| GW-2 | 1/31/2008 | 6.75 | 416 | 19.6 | -48 |
| GW-2 | 5/5/2008 | 7.00 | 1816 | 20.9 | 33 |
| GW-2 | 11/10/2008 | 6.88 | 2.66 | 21.6 | 39 |
| GW-2 | 2/13/2009 | 6.73 | 2.93 | 20.2 | 117 |
| GW-2 | 5/14/2009 | 6.90 | 2.60 | 22.9 | 172 |
| GW-2 | 8/5/2009 | 7.18 | 2.13 | 23.3 | 93 |
| GW-2 | 10/29/2009 | 7.17 | 1965 | 21.6 | 99 |
| GW-2 | 1/25/2010 | 7.22 | 2.28 | 20.7 | 216 |
| GW-2 | 5/12/2010 | 7.18 | 2.52 | 21.0 | 114 |
| GW-2 | 8/2/2010 | 7.09 | 2.31 | 22.3 | 83 |
| GW-2 | 1/24/2011 | 7.21 | 1660 | 20.8 | 272 |
| GW-2 | 8/1/2011 | 7.19 | 1019 | 21.0 | 298 |
| GW-2 | 1/30/2012 | 7.29 | 708 | 20.8 | 233 |
| GW-5 | 11/10/2004 | 7.20 | 673 | 19.7 | 177 |
| GW-5 | 2/4/2005 | 7.30 | 656 | 14.6 | 127 |
| GW-5 | 5/17/2005 | 7.70 | 740 | 20.7 | 141 |
| GW-5 | 8/17/2005 | 7.50 | 724 | 27.7 | 133 |
| GW-5 | 11/16/2005 | 7.50 | 810 | 21.0 | 193 |
| GW-5 | 2/16/2006 | 7.58 | 804 | 18.9 | 195 |
| GW-5 | 5/8/2006 | 7.27 | 840 | 20.6 | 140 |
| GW-5 | 8/8/2006 | 7.35 | 808 | 22.3 | 287 |
| GW-5 | 11/7/2006 | 7.25 | 886 | 21.5 | 164 |
| GW-5 | 1/31/2007 | 7.11 | 816 | 20.4 | 162 |
| GW-5 | 5/15/2007 | 7.26 | 846 | 20.3 | 211 |
| GW-5 | 8/6/2007 | 7.02 | 877 | 20.8 | 223 |
| GW-5 | 11/5/2007 | 7.35 | 923 | 21.7 | 92 |
| GW-5 | 1/31/2008 | 7.47 | 802 | 17.7 | 88 |
| GW-5 | 8/4/2008 | 7.34 | 897 | 21.1 | 158 |
| GW-5 | 2/13/2009 | 7.00 | 901 | 19.1 | 143 |
| GW-5 | 8/5/2009 | 7.47 | 938 | 20.6 | 156 |
| GW-5 | 1/25/2010 | 7.43 | 979 | 17.8 | 232 |
| GW-5 | 8/2/2010 | 7.50 | 867 | 20.3 | 163 |

# Table 5

## Groundwater Parameter Measurements Summary

## November 2004 through January 2013

## Valley Wood Preserving
## Turlock California

| Well ID | Date | Groundwater Parameter Measurements | | | |
|---|---|---|---|---|---|
| | | pH | Conductivity umhos/cm | Temperature C | ORP mV |
| GW-5 | 1/24/2011 | 7.20 | 851 | 18.4 | 270 |
| GW-5 | 8/1/2011 | 7.55 | 656 | 20.0 | 212 |
| GW-5 | 1/30/2012 | 7.02 | 542 | 19.0 | 256 |
| GW-5 | 1/28/2013 | 6.90 | 615 | 18.9 | 325 |
| GW-12V | 8/1/2011 | 7.21 | 814 | 23.8 | -- |
| GW-12V | 1/30/2012 | Dry | Dry | Dry | Dry |
| GW-12V | 1/28/2013 | Dry | Dry | Dry | Dry |
| GW-15A | 11/10/2004 | 7.30 | 851 | 19.1 | 155 |
| GW-15A | 2/4/2005 | 7.20 | 904 | 21.4 | 5 |
| GW-15A | 5/17/2005 | 7.70 | 927 | 20.5 | 49 |
| GW-15A | 8/17/2005 | 7.40 | 791 | 26.5 | -21 |
| GW-15A | 11/16/2005 | 7.60 | 916 | 20.2 | 105 |
| GW-15A | 2/16/2006 | 7.54 | 870 | 20.0 | 187 |
| GW-15A | 5/8/2006 | 7.40 | 925 | 21.1 | 132 |
| GW-15A | 8/8/2006 | 7.65 | 844 | 22.2 | 242 |
| GW-15A | 11/7/2006 | 7.55 | 903 | 21.0 | 179 |
| GW-15A | 1/31/2007 | 7.16 | 832 | 19.0 | 183 |
| GW-15A | 5/15/2007 | 7.53 | 846 | 21.7 | 222 |
| GW-15A | 11/5/2007 | 7.51 | 913 | 20.5 | 162 |
| GW-15A | 8/6/2007 | 7.32 | 904 | 21.6 | 232 |
| GW-15A | 1/31/2008 | 7.52 | 792 | 18.7 | 82 |
| GW-15A | 5/5/2008 | 7.54 | 720 | 20.6 | 95 |
| GW-15A | 8/4/2008 | 7.58 | 874 | 21.0 | 193 |
| GW-15A | 11/10/2008 | 7.37 | 857 | 19.5 | 507 |
| GW-15A | 2/13/2009 | 7.21 | 881 | 20.1 | 197 |
| GW-15A | 5/14/2009 | 7.33 | 926 | 21.2 | 269 |
| GW-15A | 8/5/2009 | 7.32 | 930 | 20.4 | 185 |
| GW-15A | 10/29/2009 | 7.47 | 921 | 19.9 | 184 |
| GW-15A | 1/25/2010 | 7.68 | 962 | 19.3 | 211 |
| GW-15A | 5/12/2010 | 7.42 | 920 | 19.4 | 136 |
| GW-15A | 8/2/2010 | 7.55 | 877 | 20.5 | 148 |
| GW-15A | 1/24/2011 | 7.15 | 8.12 | 18.5 | 230 |
| GW-15A | 8/1/2011 | 7.57 | 666 | 20.0 | 231 |
| GW-15A | 1/30/2012 | 7.15 | 514 | 19.9 | 252 |
| GW-15A | 1/28/2013 | 7.07 | 591 | 19.8 | 399 |
| GW-15B | 11/10/2004 | 7.70 | 691 | 19.2 | 158 |

# Table 5

## Groundwater Parameter Measurements Summary

## November 2004 through January 2013

## Valley Wood Preserving
## Turlock California

| Well ID | Date | Groundwater Parameter Measurements | | | |
|---|---|---|---|---|---|
| | | pH | Conductivity umhos/cm | Temperature C | ORP mV |
| GW-15B | 2/4/2005 | 7.70 | 802 | 22.0 | 91 |
| GW-15B | 5/17/2005 | 7.40 | 871 | 21.7 | 57 |
| GW-15B | 8/17/2005 | 7.40 | 724 | 25.5 | -52 |
| GW-15B | 11/16/2005 | 7.80 | 847 | 20.3 | 197 |
| GW-15B | 2/16/2006 | 7.81 | 827 | 20.0 | 153 |
| GW-15B | 5/8/2006 | 7.73 | 858 | 23.0 | 128 |
| GW-15B | 8/8/2006 | 7.80 | 802 | 22.6 | 232 |
| GW-15B | 11/7/2006 | 7.71 | 860 | 22.1 | 155 |
| GW-15B | 1/31/2007 | 7.21 | 811 | 20.3 | 164 |
| GW-15B | 5/15/2007 | 7.65 | 817 | 21.8 | 226 |
| GW-15B | 8/6/2007 | 7.42 | 892 | 21.0 | 230 |
| GW-15B | 11/5/2007 | 7.81 | 905 | 20.9 | 146 |
| GW-15B | 1/31/2008 | 7.80 | 779 | 18.6 | 83 |
| GW-15B | 5/5/2008 | 7.78 | 698 | 21.4 | 86 |
| GW-15B | 8/4/2008 | 7.74 | 832 | 21.0 | 181 |
| GW-15B | 11/10/2008 | 7.79 | 822 | 19.9 | 373 |
| GW-15B | 2/13/2009 | 7.55 | 852 | 20.2 | 176 |
| GW-15B | 5/14/2009 | 7.71 | 855 | 21.0 | 221 |
| GW-15B | 8/5/2009 | 7.79 | 876 | 20.7 | 151 |
| GW-15B | 10/29/2009 | 7.71 | 861 | 20.3 | 179 |
| GW-15B | 1/25/2010 | 7.76 | 938 | 19.6 | 232 |
| GW-15B | 5/12/2010 | 7.72 | 874 | 19.8 | 131 |
| GW-15B | 8/2/2010 | 7.71 | 829 | 20.7 | 141 |
| GW-15B | 1/24/2011 | 7.51 | 822 | 19.1 | 261 |
| GW-15B | 8/1/2011 | 7.65 | 638 | 20.2 | 215 |
| GW-15B | 1/30/2012 | 7.39 | 487 | 20.0 | 238 |
| GW-15B | 1/28/2013 | 7.59 | 524 | 19.8 | 300 |
| GW-15C | 11/10/2004 | 7.30 | 923 | 20.2 | 156 |
| GW-15C | 2/4/2005 | 7.20 | 893 | 15.0 | 016 |
| GW-15C | 5/17/2005 | 7.40 | 1096 | 21.1 | -66 |
| GW-15C | 8/17/2005 | 7.40 | 777 | 24.7 | -2 |
| GW-15C | 11/16/2005 | 7.50 | 1013 | 19.7 | 200 |
| GW-15C | 2/16/2006 | 7.54 | 986 | 18.0 | 136 |
| GW-15C | 5/8/2006 | 7.28 | 1025 | 20.0 | 129 |
| GW-15C | 8/8/2006 | 7.59 | 848 | 23.0 | 242 |
| GW-15C | 11/7/2006 | 7.49 | 935 | 21.9 | 159 |

# Table 5

## Groundwater Parameter Measurements Summary

## November 2004 through January 2013

## Valley Wood Preserving
## Turlock California

| Well ID | Date | Groundwater Parameter Measurements | | | |
|---|---|---|---|---|---|
| | | pH | Conductivity umhos/cm | Temperature C | ORP mV |
| GW-15C | 1/31/2007 | 7.18 | 1031 | 19.3 | 179 |
| GW-15C | 5/15/2007 | 7.48 | 911 | 18.8 | 237 |
| GW-15C | 8/6/2007 | 7.20 | 904 | 20.3 | 248 |
| GW-15C | 11/5/2007 | 7.54 | 966 | 21.2 | 107 |
| GW-15C | 1/31/2008 | 7.49 | 1004 | 18.0 | 80 |
| GW-15C | 5/5/2008 | 7.51 | 786 | 18.7 | 81 |
| GW-15C | 8/4/2008 | 7.44 | 868 | 21.1 | 165 |
| GW-15C | 11/10/2008 | 7.56 | 962 | 20.5 | 266 |
| GW-15C | 2/13/2009 | 7.11 | 1172 | 19.3 | 162 |
| GW-15C | 5/14/2009 | 7.39 | 1082 | 19.4 | 207 |
| GW-15C | 8/5/2009 | 7.55 | 983 | 20.5 | 135 |
| GW-15C | 10/29/2009 | 7.43 | 1092 | 21.1 | 154 |
| GW-15C | 1/25/2010 | 7.58 | 1277 | 18.9 | 237 |
| GW-15C | 5/12/2010 | 7.39 | 1239 | 18.1 | 125 |
| GW-15C | 8/2/2010 | 7.38 | 1170 | 19.8 | 150 |
| GW-15C | 1/24/2011 | 7.40 | 998 | 18.1 | 252 |
| GW-15C | 8/1/2011 | 7.52 | 724 | 19.0 | 224 |
| GW-15C | 1/30/2012 | 7.23 | 566 | 18.9 | 237 |
| GW-15C | 1/28/2013 | 7.46 | 656 | 18.8 | 299 |
| GW-24 | 2/1/2005 | 7.30 | 827 | 16.0 | 61 |
| GW-24 | 5/18/2005 | 7.50 | 846 | 19.4 | 1 |
| GW-24 | 8/16/2005 | 7.30 | 716 | 26.2 | 72 |
| GW-24 | 11/16/2005 | 7.20 | 856 | 19.9 | 106 |
| GW-24 | 2/16/2006 | 7.65 | 938 | 19.7 | 137 |
| GW-24 | 5/8/2006 | 7.18 | 1005 | 20.8 | 140 |
| GW-24 | 8/8/2006 | 7.58 | 809 | 23.5 | 264 |
| GW-24 | 11/7/2006 | 7.64 | 985 | 23.3 | 193 |
| GW-24 | 1/26/2007 | 7.10 | 924 | 21.4 | 132 |
| GW-24 | 5/15/2007 | 7.52 | 913 | 21.3 | 238 |
| GW-24 | 8/6/2007 | 6.97 | 1006 | 20.9 | 253 |
| GW-24 | 11/6/2007 | 6.28 | 4250 | 21.2 | -48 |
| GW-24 | 1/31/2008 | 6.88 | 1236 | 19.4 | -71 |
| GW-24 | 5/5/2008 | 7.04 | 887 | 23.2 | 26 |
| GW-24 | 11/10/2008 | 7.03 | 1688 | 21.1 | 80 |
| GW-24 | 2/13/2009 | 6.75 | 1387 | 20.6 | 82 |
| GW-24 | 5/14/2009 | 6.99 | 1255 | 22.5 | 52 |

# Table 5

## Groundwater Parameter Measurements Summary

## November 2004 through January 2013

## Valley Wood Preserving
## Turlock California

| Well ID | Date | Groundwater Parameter Measurements | | | |
|---|---|---|---|---|---|
| | | pH | Conductivity umhos/cm | Temperature C | ORP mV |
| GW-24 | 8/5/2009 | 7.15 | 1063 | 22.8 | -119 |
| GW-24 | 10/29/2009 | 6.98 | 1128 | 21.9 | 125 |
| GW-24 | 1/25/2010 | 7.24 | 1215 | 20.1 | 178 |
| GW-24 | 5/12/2010 | 7.26 | 1186 | 21.0 | 92 |
| GW-24 | 8/2/2010 | 7.17 | 1069 | 22.3 | 50 |
| GW-24 | 1/24/2011 | 7.29 | 1136 | 21.4 | 253 |
| GW-24 | 8/1/2011 | 7.21 | 797 | 22.4 | 221 |
| GW-24 | 1/30/2012 | 7.09 | 626 | 20.7 | 204 |
| GW-24 | 1/28/2013 | 7.38 | 678 | 20.1 | 225 |
| GW-39D | 11/11/2004 | 7.70 | 513 | 18.2 | 91 |
| GW-39D | 2/1/2005 | 7.60 | 502 | 16.0 | 67 |
| GW-39D | 5/17/2005 | 7.50 | 610 | 20.6 | 28 |
| GW-39D | 8/17/2005 | 7.60 | 495 | 24.6 | 3 |
| GW-39D | 11/16/2005 | 7.30 | 347 | 20.4 | -21 |
| GW-39D | 2/17/2006 | 7.78 | 576 | 19.2 | 90 |
| GW-39D | 5/8/2006 | 7.69 | 391 | 20.5 | 107 |
| GW-39D | 8/7/2006 | 7.98 | 561 | 22.7 | 241 |
| GW-39D | 11/7/2006 | 7.71 | 599 | 22.9 | 157 |
| GW-39D | 1/26/2007 | 7.20 | 574 | 20.1 | 147 |
| GW-39D | 5/15/2007 | 7.76 | 572 | 22.5 | 236 |
| GW-39D | 8/6/2007 | 7.51 | 670 | 21.1 | 242 |
| GW-39D | 11/6/2007 | 7.54 | 566 | 21.2 | -26 |
| GW-39D | 1/31/2008 | 7.82 | 529 | 19.2 | 4 |
| GW-39D | 5/5/2008 | 7.78 | 529 | 21.8 | 81 |
| GW-39D | 8/4/2008 | 7.70 | 579 | 22.7 | 149 |
| GW-39D | 11/10/2008 | 7.77 | 604 | 19.0 | 160 |
| GW-39D | 2/13/2009 | 7.37 | 565 | 20.6 | 107 |
| GW-39D | 5/14/2009 | 7.80 | 595 | 21.9 | 196 |
| GW-39D | 8/5/2009 | 7.83 | 606 | 22.4 | 122 |
| GW-39D | 10/29/2009 | 7.82 | 597 | 20.4 | 172 |
| GW-39D | 1/25/2010 | 7.80 | 626 | 20.4 | 215 |
| GW-39D | 5/12/2010 | 7.71 | 597 | 21.5 | 164 |
| GW-39D | 8/2/2010 | 7.77 | 567 | 24.6 | 125 |
| GW-39D | 1/24/2011 | 7.58 | 556 | 20.5 | 287 |
| GW-39D | 8/1/2011 | 7.74 | 467 | 21.3 | 220 |
| GW-39D | 1/30/2012 | 7.52 | 384 | 21.2 | 211 |
| GW-39D | 1/28/2013 | 7.68 | 278 | 19.4 | 244 |

# Table 5

## Groundwater Parameter Measurements Summary

## November 2004 through January 2013

## Valley Wood Preserving
## Turlock California

| Well ID | Date | Groundwater Parameter Measurements | | | |
|---|---|---|---|---|---|
| | | pH | Conductivity umhos/cm | Temperature C | ORP mV |
| I-37 | 2/1/2005 | 7.30 | 823 | 17.8 | 120 |
| I-37 | 2/16/2006 | 7.65 | 936 | 19.5 | 106 |
| I-37 | 1/29/2007 | 7.16 | 983 | 21.1 | 131 |
| I-37 | 1/29/2008 | 7.40 | 1157 | 18.2 | 154 |
| I-37 | 5/5/2008 | 7.65 | 883 | 22.3 | 106 |
| I-37 | 8/4/2008 | 7.54 | 1025 | 21.8 | 208 |
| I-37 | 11/10/2008 | 7.31 | 1287 | 21.4 | 227 |
| I-37 | 2/13/2009 | 7.08 | 1258 | 20.7 | 132 |
| I-37 | 5/14/2009 | 7.49 | 1223 | 21.0 | 226 |
| I-37 | 8/5/2009 | 7.57 | 1130 | 20.9 | 146 |
| I-37 | 10/29/2009 | 7.65 | 1159 | 21.5 | 170 |
| I-37 | 1/25/2010 | 7.50 | 1328 | 19.9 | 176 |
| I-37 | 5/12/2010 | 7.62 | 1221 | 21.0 | 126 |
| I-37 | 8/2/2010 | 7.52 | 1100 | 21.2 | 95 |
| I-37 | 1/24/2011 | 7.32 | 1107 | 19.1 | 292 |
| I-37 | 1/30/2012 | 7.07 | 690 | 21.3 | 269 |
| I-37 | 1/28/2013 | 7.19 | 725 | 21.1 | 290 |

**TABLE 6**
**Pre and Post Virobind Injection Analyses**
**Valley Wood Preserving**
**Turlock CA.**
**(Page 1 of 3)**

| ON SITE WELLS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **SITE** | **DATE** | **Hexavalent Chromium (mg/l)** | **Total Dissolved Chromium* (mg/l)** | **Sulfate (mg/l)** | **Manganese (mg/l)** | **Arsenic (mg/l)** | **Chloride (mg/l)** | **Dissolved Iron (mg/l)** | **Total Dissolved Solids (mg/l)** |
| GW-1 | 08/06/07 | 0.04 | 0.096 | 173 | 1.26 | 0.640 | -- | -- | -- |
| GW-1 | 9/6/2007 | -- | -- | -- | -- | -- | 29.5 | 0.134 | 559 |
| | | | | September/October Virobind Injections | | | | | |
| GW-1 | 10/15/2007 | <0.01 | -- | 2760 | 7 | <0.005 | 3790 | 592 | 9900 |
| GW-1 | 10/22/2007 | <0.01 | -- | 4440 | 22.8 | <0.005 | -- | -- | -- |
| GW-1 | 10/30/2007 | <0.01 | -- | 4600 | 53.2 | <0.005 | -- | -- | -- |
| GW-1 | 11/6/2007 | <0.01 | <0.010 | 4100 | 40.1 | <0.005 | 6040 | 430 | 15300 |
| GW-1 | 12/3/2007 | <0.01 | -- | 3030 | 32.5 | <0.005 | -- | -- | -- |
| GW-1 | 2/8/2008 | <0.01 | <0.010 | 1630 | 15 | <0.005 | 1910 | 17 | 5200 |
| GW-1 | 5/5/2008 | -- | <0.010 | 1710 | 9.58 | <0.005 | 1880 | 0.607 | 5530 |
| GW-1 | 8/4/2008 | -- | <0.010 | 1880 | 9.25 | <0.005 | 1450 | 4.96 | 5620 |
| GW-1 | 11/10/2008 | -- | 0.013 | 1670 | 5.89 | <0.005 | 1130 | 0.384 | 4650 |
| GW-1 | 2/13/2009 | <0.01 | <0.010 | 1530 | 0.05 | 0.006 | 846 | 0.528 | 3620 |
| GW-1 | 5/14/2009 | -- | <0.010 | 1090 | 0.03 | 0.014 | 543 | 0.695 | 2670 |
| GW-1 | 8/5/2009 | -- | <0.010 | 1050 | <0.02 | 0.019 | 414 | 0.300 | 2550 |
| GW-1 | 10/29/2009 | -- | <0.010 | 845 | 0.24 | 0.009 | 295 | 0.260 | 1930 |
| GW-1 | 1/25/2010 | <0.01 | <0.010 | 794 | 0.02 | 0.042 | 243 | 0.226 | 1930 |
| GW-1 | 5/12/2010 | -- | 0.014 | 685 | 0.10 | <0.005 | 236 | 0.199 | 1680 |
| GW-1 | 8/2/2010 | -- | 0.012 | 564 | 0.04 | 0.038 | 180 | 0.255 | 1480 |
| GW-1 | 1/24/2011 | <0.0005 | <0.010 | 362 | 0.02 | 0.067 | 96.8 | <0.050 | 1120 |
| GW-1 | 8/1/2011 | -- | <0.010 | 318 | <0.02 | 0.064 | 86.1 | 0.084 | 917 |
| GW-1 | 1/30/2012 | 0.00245 | <0.010 | 280 | <0.02 | 0.070 | 84.1 | 0.104 | 837 |
| GW-1 | 1/28/2013 | <0.00050 | <0.010 | -- | -- | 0.027 | 95.4 | 0.082 | 520 |

| ON SITE WELLS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **SITE** | **DATE** | **Hexavalent Chromium (mg/l)** | **Total Dissolved Chromium* (mg/l)** | **Sulfate (mg/l)** | **Manganese (mg/l)** | **Arsenic (mg/l)** | **Chloride (mg/l)** | **Dissolved Iron (mg/l)** | **Total Dissolved Solids (mg/l)** |
| GW-24 | 08/06/07 | 0.03 | 0.048 | 291 | <0.01 | 0.056 | -- | -- | -- |
| GW-24 | 9/6/2007 | -- | -- | -- | -- | -- | 35.7 | 0.167 | 765 |
| | | | | September/October Virobind Injections | | | | | |
| GW-24 | 10/15/2007 | <0.01 | -- | 3430 | 119 | <0.005 | 5210 | 825 | 12300 |
| GW-24 | 10/22/2007 | <0.01 | -- | 966 | 19 | <0.005 | -- | -- | -- |
| GW-24 | 10/30/2007 | <0.01 | -- | 902 | 15.5 | <0.005 | -- | -- | -- |
| GW-24 | 11/6/2007 | <0.01 | <0.010 | 577 | 12.6 | <0.005 | 1130 | 228 | 3320 |
| GW-24 | 12/3/2007 | <0.01 | -- | 540 | 5.34 | <0.005 | -- | -- | -- |
| GW-24 | 1/31/2008 | <0.01 | <0.010 | 360 | 1.22 | <0.005 | 194 | 7.06 | 996 |
| GW-24 | 5/5/2008 | -- | <0.010 | 299 | 0.59 | <0.005 | 121 | 0.190 | 854 |
| GW-24 | 8/4/2008 | -- | <0.010 | 291 | 0.66 | <0.005 | 154 | 0.683 | 908 |
| GW-24 | 11/10/2008 | -- | <0.010 | 329 | 0.65 | <0.005 | 388 | 0.762 | 1540 |
| GW-24 | 2/13/2009 | <0.01 | <0.010 | 354 | 0.15 | <0.005 | 178 | 0.560 | 1050 |
| GW-24 | 5/14/2009 | -- | <0.010 | 275 | 0.13 | <0.005 | 168 | 1.36 | 883 |
| GW-24 | 8/5/2009 | -- | <0.010 | 261 | 0.62 | <0.005 | 83.4 | 3.62 | 708 |
| GW-24 | 10/29/2009 | -- | <0.010 | 250 | 0.57 | <0.005 | 90.6 | 3.54 | 690 |
| GW-24 | 1/25/2010 | <0.01 | <0.010 | 271 | 0.23 | <0.005 | 109 | 0.651 | 805 |
| GW-24 | 5/12/2010 | -- | <0.010 | 252 | 0.05 | <0.005 | 118 | 0.700 | 767 |
| GW-24 | 8/2/2010 | -- | <0.010 | 243 | 0.14 | <0.005 | 102 | 0.988 | 762 |
| GW-24 | 1/24/2011 | <0.00050 | <0.010 | 248 | 0.15 | 0.005 | 148 | 0.650 | 884 |
| GW-24 | 8/1/2011 | -- | <0.010 | 244 | 0.22 | <0.005 | 154 | 0.527 | 891 |
| GW-24 | 1/30/2012 | <0.00050 | <0.010 | 231 | 0.07 | <0.005 | 184 | 0.578 | 902 |
| GW-24 | 1/28/2013 | <0.00050 | <0.010 | -- | -- | <0.005 | 223 | 0.780 | 1010 |

**TABLE 6**
**Pre and Post Virobind Injection Analyses**
**Valley Wood Preserving**
**Turlock CA.**
**(Page 2 of 3)**

| OFF SITE AND DEEP WELLS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **SITE** | **DATE** | **Hexavalent Chromium (mg/l)** | **Total Dissolved Chromium* (mg/l)** | **Sulfate (mg/l)** | **Manganese (mg/l)** | **Arsenic (mg/l)** | **Chloride (mg/l)** | **Dissolved Iron (mg/l)** | **Total Dissolved Solids (mg/l)** |
| GW-15A | 08/06/07 | 0.04 | 0.052 | 221 | <0.01 | <0.005 | -- | -- | -- |
| GW-15A | 9/6/2007 | -- | -- | -- | -- | -- | 42.3 | 0.147 | 647 |
| | | | September/October Virobind Injections | | | | | | |
| GW-15A | 11/5/2007 | 0.04 | 0.068 | 235 | <0.01 | <0.005 | 39.5 | 0.288 | 640 |
| GW-15A | 1/31/2008 | 0.05 | 0.054 | 257 | <0.01 | 0.006 | 46.5 | 0.172 | 618 |
| GW-15A | 5/5/2008 | -- | 0.057 | 233 | <0.01 | 0.005 | 40.2 | 0.103 | 647 |
| GW-15A | 8/4/2008 | -- | 0.048 | 240 | 0.03 | <0.005 | 45.1 | 0.200 | 650 |
| GW-15A | 11/10/2008 | -- | 0.053 | 245 | <0.01 | <0.005 | 38.2 | <0.050 | 683 |
| GW-15A | 2/13/2009 | 0.02 | 0.028 | 241 | 0.02 | <0.005 | 38.4 | 0.352 | 641 |
| GW-15A | 5/14/2009 | -- | 0.040 | 255 | <0.02 | 0.005 | 40.7 | 0.628 | 630 |
| GW-15A | 8/5/2009 | -- | 0.063 | 234 | <0.02 | <0.005 | 38.1 | 0.345 | 652 |
| GW-15A | 10/29/2009 | -- | 0.054 | 245 | <0.02 | <0.005 | 37.3 | 0.702 | 648 |
| GW-15A | 1/25/2010 | 0.03 | 0.038 | 247 | <0.02 | <0.005 | 39.2 | 0.398 | 664 |
| GW-15A | 5/12/2010 | -- | 0.034 | 253 | <0.02 | <0.005 | 34.7 | 0.500 | 660 |
| GW-15A | 8/2/2010 | -- | 0.077 | 230 | <0.02 | 0.005 | 39.4 | 0.708 | 632 |
| GW-15A | 1/24/2011 | 0.17 | 0.172 | 229 | 0.02 | 0.006 | 31.7 | 0.242 | 756 |
| GW-15A | 8/1/2011 | -- | 0.124 | 250 | <0.02 | <0.005 | 37.5 | 0.320 | 655 |
| GW-15A | 1/30/2012 | 0.067 | 0.068 | 246 | <0.02 | 0.005 | 31.1 | 0.296 | 656 |
| GW-15A | 1/28/2013 | 0.042 | 0.042 | -- | -- | <0.005 | 62.7 | 0.350 | 737 |
| GW-15B | 08/06/07 | <0.01 | 0.012 | 214 | <0.01 | 0.006 | -- | -- | -- |
| GW-15B | 9/6/2007 | -- | -- | -- | -- | -- | 41.4 | 0.152 | 624 |
| | | | September/October Virobind Injections | | | | | | |
| GW-15B | 11/5/2007 | <0.01 | <0.010 | 233 | <0.01 | 0.005 | 38.2 | 0.31 | 641 |
| GW-15B | 1/31/2008 | <0.01 | 0.015 | 262 | <0.01 | 0.008 | 46.2 | 0.136 | 623 |
| GW-15B | 5/5/2008 | -- | 0.015 | 219 | <0.01 | 0.007 | 38.4 | 0.125 | 629 |
| GW-15B | 8/4/2008 | -- | <0.010 | 215 | <0.01 | 0.007 | 44.2 | 0.187 | 625 |
| GW-15B | 11/10/2008 | -- | 0.011 | 214 | <0.01 | 0.007 | 36.8 | 0.137 | 708 |
| GW-15B | 2/13/2009 | 0.01 | 0.017 | 225 | <0.01 | 0.007 | 37.2 | 0.339 | 659 |
| GW-15B | 5/14/2009 | -- | 0.015 | 218 | <0.02 | 0.006 | 38.1 | 0.584 | 605 |
| GW-15B | 8/5/2009 | -- | 0.010 | 218 | <0.02 | 0.007 | 36.6 | 0.345 | 620 |
| GW-15B | 10/29/2009 | -- | 0.010 | 221 | <0.02 | 0.007 | 36.6 | 0.523 | 622 |
| GW-15B | 1/25/2010 | <0.01 | <0.010 | 239 | <0.02 | 0.006 | 36.6 | 0.456 | 672 |
| GW-15B | 5/12/2010 | -- | 0.014 | 231 | <0.02 | 0.006 | 36.4 | 0.471 | 674 |
| GW-15B | 8/2/2010 | -- | 0.015 | 210 | <0.02 | 0.007 | 35.7 | 0.684 | 598 |
| GW-15B | 1/24/2011 | 0.0185 | 0.019 | 230 | 0.02 | 0.008 | 35.9 | 0.383 | 652 |
| GW-15B | 8/1/2011 | -- | 0.033 | 226 | <0.02 | 0.006 | 35.8 | 0.275 | 647 |
| GW-15B | 1/30/2012 | 0.107 | 0.110 | 209 | <0.02 | 0.006 | 37.0 | 0.266 | 604 |
| GW-15B | 1/28/2013 | 0.0796 | 0.080 | -- | -- | 0.006 | 35.5 | 0.272 | 641 |

**TABLE 6**
**Pre and Post Virobind Injection Analyses**
**Valley Wood Preserving**
**Turlock CA.**
**(Page 3 of 3)**

| OFF SITE AND DEEP WELLS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **SITE** | **DATE** | **Hexavalent Chromium (mg/l)** | **Total Dissolved Chromium* (mg/l)** | **Sulfate (mg/l)** | **Manganese (mg/l)** | **Arsenic (mg/l)** | **Chloride (mg/l)** | **Dissolved Iron (mg/l)** | **Total Dissolved Solids (mg/l)** |
| GW-15C | 8/6/2007 | 0.03 | 0.039 | 210 | <0.01 | <0.005 | -- | -- | -- |
| GW-15C | 9/6/2007 | -- | -- | -- | -- | -- | 43.0 | 0.14 | 659 |
| | | | September/October Virobind Injections | | | | | | |
| GW-15C | 11/5/2007 | <0.01 | 0.026 | 243 | <0.01 | <0.005 | 43.2 | 0.258 | 703 |
| GW-15C | 1/31/2008 | 0.02 | 0.020 | 409 | <0.01 | <0.005 | 46.5 | 0.237 | 876 |
| GW-15C | 5/5/2008 | -- | 0.021 | 328 | <0.01 | <0.005 | 37.8 | 0.164 | 792 |
| GW-15C | 8/4/2008 | -- | 0.032 | 231 | <0.01 | <0.005 | 44.9 | 0.216 | 663 |
| GW-15C | 11/10/2008 | -- | 0.032 | 289 | <0.01 | <0.005 | 35.1 | 0.159 | 779 |
| GW-15C | 2/13/2009 | 0.02 | 0.028 | 411 | <0.01 | <0.005 | 35.6 | 0.536 | 912 |
| GW-15C | 5/14/2009 | -- | 0.022 | 341 | <0.02 | <0.005 | 36.9 | 0.828 | 785 |
| GW-15C | 8/5/2009 | -- | 0.026 | 267 | <0.02 | <0.005 | 36.8 | 0.408 | 692 |
| GW-15C | 10/29/2009 | -- | 0.024 | 313 | <0.02 | <0.005 | 34.9 | 0.838 | 814 |
| GW-15C | 1/25/2010 | 0.03 | 0.021 | 389 | <0.02 | <0.005 | 34.1 | 0.566 | 916 |
| GW-15C | 5/12/2010 | -- | 0.028 | 426 | <0.02 | <0.005 | 34.2 | 0.767 | 963 |
| GW-15C | 8/2/2010 | -- | 0.028 | 422 | <0.02 | <0.005 | 34.2 | 0.608 | 983 |
| GW-15C | 1/24/2011 | 0.0247 | 0.025 | 270 | 0.02 | <0.005 | 68.4 | 0.541 | 833 |
| GW-15C | 8/1/2011 | -- | 0.033 | 263 | <0.02 | <0.005 | 62.0 | 0.386 | 758 |
| GW-15C | 1/30/2012 | 0.127 | 0.130 | 208 | <0.02 | <0.005 | 101 | 0.314 | 701 |
| GW-15C | 1/28/2013 | 0.117 | 0.120 | -- | -- | <0.005 | 137 | 0.375 | 838 |
| GW-39D | 8/6/2007 | 0.06 | 0.066 | 72.6 | <0.01 | 0.022 | -- | -- | -- |
| GW-39D | 9/6/2007 | -- | -- | -- | -- | -- | 37.2 | <0.100 | 362 |
| | | | September/October Virobind Injections | | | | | | |
| GW-39D | 11/6/2007 | 0.02 | 0.048 | 68 | 0.01 | 0.014 | 39 | 0.23 | 398 |
| GW-39D | 1/31/2008 | 0.05 | 0.051 | 70.1 | <0.01 | 0.020 | 43.4 | 0.175 | 409 |
| GW-39D | 5/5/2008 | -- | 0.048 | 78.0 | 0.02 | 0.018 | 46.3 | 0.065 | 443 |
| GW-39D | 8/4/2008 | -- | 0.050 | 70.8 | 0.03 | 0.016 | 44.9 | 0.136 | 420 |
| GW-39D | 11/10/2008 | -- | 0.054 | 66.0 | <0.02 | 0.018 | 37.6 | 0.060 | 435 |
| GW-39D | 2/13/2009 | 0.05 | 0.057 | 64.7 | <0.02 | 0.018 | 38.1 | 0.145 | 408 |
| GW-39D | 5/14/2009 | -- | 0.058 | 68.7 | <0.02 | 0.018 | 40.3 | 0.358 | 391 |
| GW-39D | 8/5/2009 | -- | 0.061 | 67.3 | <0.02 | 0.018 | 36.6 | 0.218 | 400 |
| GW-39D | 10/29/2009 | -- | 0.062 | 68.0 | <0.02 | 0.019 | 38.8 | 0.307 | 418 |
| GW-39D | 1/25/2010 | 0.06 | 0.060 | 65.7 | <0.02 | 0.017 | 36.5 | 0.276 | 404 |
| GW-39D | 5/12/2010 | -- | 0.058 | 67.0 | <0.02 | 0.017 | 38.4 | 0.296 | 476 |
| GW-39D | 8/2/2010 | -- | 0.055 | 62.9 | <0.02 | 0.018 | 37.3 | 0.431 | 427 |
| GW-39D | 1/24/2011 | 0.0563 | 0.060 | 64.5 | 0.02 | 0.019 | 38.3 | 0.183 | 505 |
| GW-39D | 8/1/2011 | -- | 0.048 | 63.9 | <0.02 | 0.016 | 37.7 | 0.172 | 425 |
| GW-39D | 1/30/2012 | 0.0562 | 0.057 | 62.5 | <0.02 | 0.016 | 37.8 | 0.153 | 418 |
| GW-39D | 1/28/2013 | 0.0554 | 0.056 | -- | -- | 0.017 | 36.4 | 0.177 | 455 |

* Samples taken on 8/6/07 were analyzed for Total Chromium

# ATTACHMENT A

## Laboratory Analytical Reports (January 2013)

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
**email: lab.geo@att.net**

**Report # Z3A2801** **Project: Annual GMP for January 2013 sampled 1/28/2013** **Date:** 02/05/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## CERTIFICATE OF ANALYSIS

**Sampler:** Richard Chrun

**Sample ID:** Atkinson-1

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-01 | 1/28/2013 10:00 | 0.005 | 6020 | Arsenic, Dissolved | **0.006** | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **1.15** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Cox-2

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-02 | 1/28/2013 10:10 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **2.60** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Dixon-2

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-03 | 1/28/2013 09:05 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **2.34** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Elliot-2

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-04 | 1/28/2013 09:50 | 0.005 | 6020 | Arsenic, Dissolved | **0.006** | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **3.30** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Encomio-2

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-05 | 1/28/2013 08:35 | 0.005 | 6020 | Arsenic, Dissolved | **0.007** | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **5.16** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Hollister-2

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-06 | 1/28/2013 09:15 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **2.50** | ug/L | | 1/28/13 17:52 |

**Sample ID:** GW-5

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-07 | 1/28/2013 10:49 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | **0.056** | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **55.3** | ug/L | | 1/28/13 17:52 |

# GeoAnalytical Laboratories, Inc.

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**email: lab.geo@att.net**

**Report # Z3A2801** **Project: Annual GMP for January 2013 sampled 1/28/2013** **Date:** 02/05/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## CERTIFICATE OF ANALYSIS

**Sampler:** Richard Chrun

**Sample ID:** Segars-6

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-08 | 1/28/2013 09:25 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **3.44** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Segars-7

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-09 | 1/28/2013 08:45 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **3.10** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Segars-8

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-10 | 1/28/2013 09:35 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **2.41** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Segars-9

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-11 | 1/28/2013 08:55 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **2.81** | ug/L | | 1/28/13 17:52 |

**Sample ID:** VWP-4

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-12 | 1/28/2013 08:20 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **1.83** | ug/L | | 1/28/13 17:52 |

**Sample ID:** I-37

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-13 | 1/28/2013 11:15 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | **0.090** | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **88.1** | ug/L | | 1/28/13 17:52 |

**Sample ID:** Duplicate #1

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2801-14 | 1/28/2013 10:49 | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | **0.055** | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **54.9** | ug/L | | 1/28/13 17:52 |

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

**email: lab.geo@att.net**


**Report # Z3A2801** **Project: Annual GMP for January 2013 sampled 1/28/2013** **Date:** 02/05/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control

## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000232 - NO PREP** | | | | **Prepared: 01/28/13 Analyzed: 02/04/13** | | | | | | |
| **Blank (Z000232-BLK1)** | | | | | | | | | | |
| Chromium (VI) | ND | 0.50 | ug/L | | | | | | | |
| **LCS (Z000232-BS1)** | | | | | | | | | | |
| Chromium (VI) | 98.4 | 0.50 | ug/L | 100.0 | | 98 | 80-120 | | | |
| **LCS Dup (Z000232-BSD1)** | | | | | | | | | | |
| Chromium (VI) | 98.4 | 0.50 | ug/L | 100.0 | | 98 | 80-120 | 0.03 | 20 | |
| **Matrix Spike (Z000232-MS1)** | | **Source: Z3A2801-02** | | | | | | | | |
| Chromium (VI) | 104 | 0.50 | ug/L | 100.0 | 2.60 | 101 | 80-120 | | | |
| **Matrix Spike Dup (Z000232-MSD1)** | | **Source: Z3A2801-02** | | | | | | | | |
| Chromium (VI) | 104 | 0.50 | ug/L | 100.0 | 2.60 | 102 | 80-120 | 0.2 | 20 | |
| **Batch Z000273 - NONE** | | | | **Prepared & Analyzed: 01/30/13** | | | | | | |
| **Blank (Z000273-BLK1)** | | | | | | | | | | |
| Arsenic, Dissolved | ND | 0.005 | mg/L | | | | | | | |
| Chromium, Dissolved | ND | 0.010 | " | | | | | | | |
| **LCS (Z000273-BS1)** | | | | | | | | | | |
| Arsenic, Dissolved | 0.012 | 0.005 | mg/L | 0.01250 | | 98 | 80-120 | | | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02500 | | 108 | 80-120 | | | |
| **LCS Dup (Z000273-BSD1)** | | | | | | | | | | |
| Arsenic, Dissolved | 0.012 | 0.005 | mg/L | 0.01250 | | 97 | 80-120 | 0.8 | 20 | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02500 | | 107 | 80-120 | 0.7 | 20 | |

# GeoAnalytical Laboratories, Inc.

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**Report # Z3A2801** **Project: Annual GMP for January 2013 sampled 1/28/2013** **Date:** 02/05/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control

## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000273 - NONE** | | | | **Prepared & Analyzed: 01/30/13** | | | | | | |
| **Matrix Spike (Z000273-MS1)** | | **Source: Z3A2801-01** | | | | | | | | |
| Arsenic, Dissolved | 0.019 | 0.005 | mg/L | 0.01406 | 0.006 | 90 | 80-120 | | | |
| Chromium, Dissolved | 0.026 | 0.010 | " | 0.02812 | ND | 94 | 80-120 | | | |
| **Matrix Spike Dup (Z000273-MSD1)** | | **Source: Z3A2801-01** | | | | | | | | |
| Arsenic, Dissolved | 0.019 | 0.005 | mg/L | 0.01406 | 0.006 | 89 | 80-120 | 0.5 | 20 | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02812 | ND | 95 | 80-120 | 2 | 20 | |

# GeoAnalytical Laboratories, Inc.

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**Report # Z3A2801** **Project: Annual GMP for January 2013 sampled 1/28/2013** **Date:** 02/05/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| RL | Reporting Limit |
| NA | Not Applicable |

Z3A2801

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
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Lab Report # pg 1 of 2

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: ( 209 ) 632-9931

Fax: ( 209 ) 632-8349

Original To: Bob Schmidt

C.C To: Krissi McIlvenna, MWH Americas

Client: Valley Wood Preserving

Address: PO Box 1805

City Turlock, CA Zip 95381

## CHAIN OF CUSTODY

☐ EDF ☐ EDT

☑ FIELD LOGS

Project ID Annual GMP for January 2013 sampled 1/ 28 /2013

Sampled By (Print Name) Richard Chrun

(Signature) Richard Chrun

| Date | Time | Sample type Grab | Sample type Comp | Matrix | Sample ID | Container Type | Container Size | No. Of Containers | As,Cr (Diss 6020) | ChromeVI (7199) | | | | | | | | Lab Use Only: Lab ID # | Lab Use Only: Preservative |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/28/13 | 10:00AM | ✓ | | HWW | Atkinson-1 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -01 | 1 |
| 01/28/13 | 10:10AM | ✓ | | HWW | Cox-2 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -02 | 1 |
| 01/28/13 | 9:05AM | ✓ | | HWW | Dixon-2 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -03 | 1 |
| 01/28/13 | 9:50AM | ✓ | | HWW | Elliot-2 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -04 | 1 |
| 01/28/13 | 8:35AM | ✓ | | HWW | Encomio-2 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -05 | 1 |
| 01/28/13 | 9:15AM | ✓ | | HWW | Hollister-2 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -06 | 1 |
| 01/28/13 | 10:49AM | ✓ | | HWW | GW-5 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -07 | 1 |
| 01/28/13 | 9:25AM | ✓ | | HWW | Segars-6 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -08 | 1 |
| 01/28/13 | 8:45AM | ✓ | | HWW | Segars-7 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -09 | 1 |
| 01/28/13 | 9:35AM | ✓ | | HWW | Segars-8 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -10 | 1 |
| 01/28/13 | 8:55AM | ✓ | | HWW | Segars-9 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -11 | 1 |
| 01/28/13 | 8:20AM | ✓ | | HWW | VWP-4 | PI | 250ml | 1 | ✓ | ✓ | | | | | | | | -12 | 1 |

Filter and add preservative as needed

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| Richard Chrun | 1-28-13 | 4:15pm | Kaitlynn Goodman | 1/28/13 | 4:15 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 $HNO_3$ 6 $H_2SO_4$ 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

Z3A2801

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 668 8516

Lab Report # pg 2 0f 2

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: ( 209 ) 632-9931

Fax: ( 209 ) 632-8349

Original To: Bob Schmidt

C.C To: Krissi McIlvenna, MWH Americas

Client: Valley Wood Preserving

Address: PO Box 1805

City Turlock, CA Zip 95381

## CHAIN OF CUSTODY

☐ EDF ☐ EDT

☑ FIELD LOGS

Project ID Annual GMP for January 2013 sampled 1/ 28 /2013

Sampled By (Print Name) Richard Chrun

(Signature) Richard Chrun

| Date | Time | Sample type Grab | Sample type Comp | Matrix | Sample ID | Container Type | Container Size | No. Of Containers | As,Cr (Diss 6020) | ChromeVI (7199) | | | | | | | | Lab Use Only: Lab ID # | Lab Use Only: Preservative |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/28/13 | 1:15pm | ✓ | | HWW | I-37 | Pl | 250ml | 1 | ✓ | ✓ | | | | | | | | -13 | 1 |
| 01/28/13 | 10:49Am | ✓ | | HWW | Duplicate #1 (GW-5) | Pl | 250ml | 1 | ✓ | ✓ | | | | | | | | -14 | 1 |

Filter and add preservative as needed

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| Richard Chrun | 1-28-13 | 4:15pm | Kaitlyn Goodrich | 1/28/13 | 4:15 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 $HNO_3$ 6 $H_2SO_4$ 7 Other

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By:

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
**email: lab.geo@att.net**

**Report # Z3A2802** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## CERTIFICATE OF ANALYSIS

**Sampler:** Richard Chrun

**Sample ID:** GW-15A

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2802-01 | 1/28/2013 11:31 | 10.0 | 300.0 | Chloride | **62.7** | mg/L | | 1/28/13 18:02 |
| | | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | **0.042** | mg/L | | |
| | | 0.050 | | Iron, Dissolved | **0.350** | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **42.0** | ug/L | | 1/28/13 17:52 |
| | | 10.0 | SM 2540 C | Total Dissolved Solids (TDS) | **737** | mg/L | | 1/31/13 10:17 |

**Sample ID:** GW-15B

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2802-02 | 1/28/2013 11:57 | 10.0 | 300.0 | Chloride | **35.5** | mg/L | | 1/28/13 18:02 |
| | | 0.005 | 6020 | Arsenic, Dissolved | **0.006** | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | **0.080** | mg/L | | |
| | | 0.050 | | Iron, Dissolved | **0.272** | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **79.6** | ug/L | | 1/28/13 17:52 |
| | | 10.0 | SM 2540 C | Total Dissolved Solids (TDS) | **641** | mg/L | | 1/31/13 10:17 |

**Sample ID:** GW-15C

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2802-03 | 1/28/2013 12:13 | 10.0 | 300.0 | Chloride | **137** | mg/L | | 1/28/13 18:02 |
| | | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | **0.120** | mg/L | | |
| | | 0.050 | | Iron, Dissolved | **0.375** | mg/L | | |
| | | 2.50 | 7199 | Chromium (VI) | **117** | ug/L | | 1/28/13 17:52 |
| | | 10.0 | SM 2540 C | Total Dissolved Solids (TDS) | **838** | mg/L | | 1/31/13 10:17 |

**Sample ID:** GW-39D

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2802-04 | 1/28/2013 13:51 | 10.0 | 300.0 | Chloride | **36.4** | mg/L | | 1/28/13 18:02 |
| | | 0.005 | 6020 | Arsenic, Dissolved | **0.017** | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | **0.056** | mg/L | | |
| | | 0.050 | | Iron, Dissolved | **0.177** | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | **55.4** | ug/L | | 1/28/13 17:52 |
| | | 10.0 | SM 2540 C | Total Dissolved Solids (TDS) | **455** | mg/L | | 1/31/13 10:17 |

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

**email: lab.geo@att.net**


**Report # Z3A2802** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control

## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000232 - NO PREP** | | | | **Prepared: 01/28/13 Analyzed: 02/04/13** | | | | | | |
| **Blank (Z000232-BLK1)** | | | | | | | | | | |
| Chromium (VI) | ND | 0.50 | ug/L | | | | | | | |
| **LCS (Z000232-BS1)** | | | | | | | | | | |
| Chromium (VI) | 98.4 | 0.50 | ug/L | 100.0 | | 98 | 80-120 | | | |
| **LCS Dup (Z000232-BSD1)** | | | | | | | | | | |
| Chromium (VI) | 98.4 | 0.50 | ug/L | 100.0 | | 98 | 80-120 | 0.03 | 20 | |
| **Matrix Spike (Z000232-MS1)** | | **Source: Z3A2801-02** | | | | | | | | |
| Chromium (VI) | 104 | 0.50 | ug/L | 100.0 | 2.60 | 101 | 80-120 | | | |
| **Matrix Spike Dup (Z000232-MSD1)** | | **Source: Z3A2801-02** | | | | | | | | |
| Chromium (VI) | 104 | 0.50 | ug/L | 100.0 | 2.60 | 102 | 80-120 | 0.2 | 20 | |
| **Batch Z000234 - NO PREP** | | | | **Prepared: 01/28/13 Analyzed: 01/29/13** | | | | | | |
| **Blank (Z000234-BLK1)** | | | | | | | | | | |
| Chloride | ND | 1.0 | mg/L | | | | | | | |
| **LCS (Z000234-BS1)** | | | | | | | | | | |
| Chloride | 9.0 | 1.0 | mg/L | 10.00 | | 90 | 80-120 | | | |
| **LCS Dup (Z000234-BSD1)** | | | | | | | | | | |
| Chloride | 9.1 | 1.0 | mg/L | 10.00 | | 91 | 80-120 | 0.07 | 20 | |
| **Matrix Spike (Z000234-MS1)** | | **Source: Z3A2803-04** | | | | | | | | |
| Chloride | 9.3 | 1.0 | mg/L | 10.00 | ND | 93 | 80-120 | | | |

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
**email: lab.geo@att.net**

**Report # Z3A2802** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control
## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000234 - NO PREP** | | | | **Prepared: 01/28/13 Analyzed: 01/30/13** | | | | | | |
| **Matrix Spike Dup (Z000234-MSD1)** | | **Source: Z3A2803-04** | | | | | | | | |
| Chloride | 9.3 | 1.0 | mg/L | 10.00 | ND | 93 | 80-120 | 0.7 | 20 | |
| **Batch Z000273 - NONE** | | | | **Prepared & Analyzed: 01/30/13** | | | | | | |
| **Blank (Z000273-BLK1)** | | | | | | | | | | |
| Arsenic, Dissolved | ND | 0.005 | mg/L | | | | | | | |
| Chromium, Dissolved | ND | 0.010 | " | | | | | | | |
| Iron, Dissolved | ND | 0.050 | " | | | | | | | |
| **LCS (Z000273-BS1)** | | | | | | | | | | |
| Arsenic, Dissolved | 0.012 | 0.005 | mg/L | 0.01250 | | 98 | 80-120 | | | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02500 | | 108 | 80-120 | | | |
| Iron, Dissolved | 0.141 | 0.050 | " | 0.1250 | | 113 | 80-120 | | | |
| **LCS Dup (Z000273-BSD1)** | | | | | | | | | | |
| Arsenic, Dissolved | 0.012 | 0.005 | mg/L | 0.01250 | | 97 | 80-120 | 0.8 | 20 | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02500 | | 107 | 80-120 | 0.7 | 20 | |
| Iron, Dissolved | 0.142 | 0.050 | " | 0.1250 | | 114 | 80-120 | 0.7 | 20 | |
| **Matrix Spike (Z000273-MS1)** | | **Source: Z3A2801-01** | | | | | | | | |
| Arsenic, Dissolved | 0.019 | 0.005 | mg/L | 0.01406 | 0.006 | 90 | 80-120 | | | |
| Chromium, Dissolved | 0.026 | 0.010 | " | 0.02812 | ND | 94 | 80-120 | | | |
| Iron, Dissolved | 0.286 | 0.050 | " | 0.1406 | 0.163 | 87 | 80-120 | | | |
| **Matrix Spike Dup (Z000273-MSD1)** | | **Source: Z3A2801-01** | | | | | | | | |
| Arsenic, Dissolved | 0.019 | 0.005 | mg/L | 0.01406 | 0.006 | 89 | 80-120 | 0.5 | 20 | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02812 | ND | 95 | 80-120 | 2 | 20 | |
| Iron, Dissolved | 0.286 | 0.050 | " | 0.1406 | 0.163 | 87 | 80-120 | 0 | 20 | |

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

**email: lab.geo@att.net**


**Report # Z3A2802** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control

## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000299 - NO PREP** | | | | **Prepared & Analyzed: 01/31/13** | | | | | | |
| **Blank (Z000299-BLK1)** | | | | | | | | | | |
| Total Dissolved Solids (TDS) | ND | 10.0 | mg/L | | | | | | | |
| **Duplicate (Z000299-DUP1)** | | **Source: Z3A2504-02** | | | | | | | | |
| Total Dissolved Solids (TDS) | 739 | 10.0 | mg/L | | 777 | | | 5 | 10 | |

# GeoAnalytical Laboratories, Inc.

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**email: lab.geo@att.net**


**Report # Z3A2802** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| RL | Reporting Limit |
| NA | Not Applicable |

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 668 8516

Lab Report # Z3A2802

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: ( 209 ) 632-9931

Fax: ( 209 ) 632-8349

Original To: Bob Schmidt

C.C To: Krissi McIlvenna, MWH Americas

Client: Valley Wood Preserving

Address: PO Box 1805

City Turlock, CA Zip 95381

## CHAIN OF CUSTODY

☐ EDF ☐ EDT

☑ FIELD LOGS

Project ID Annual GMP for January 2013 sampled 1/ 28 /2013**

Sampled By (Print Name) Richard Chrun

(Signature) Richard Chrun

| Date | Time | Sample type Grab | Sample type Comp | Matrix | Sample ID | Container Type | Container Size | No. Of Containers | Fe,As,Cr (Diss 6020) | ChromeVI (7199) | Chloride, TDS | | | | | | | Lab Use Only: Lab ID # | Lab Use Only: Preservative |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/28/13 | 11:31 Am | ✓ | | HWW | GW-15A | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -01 | 1 |
| 01/28/13 | 11:57 Am | ✓ | | HWW | GW-15B | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -02 | 1 |
| 01/28/13 | 12:13 pm | ✓ | | HWW | GW-15C | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -03 | 1 |
| 01/28/13 | 1:51 pm | ✓ | | HWW | GW-39D | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -04 | 1 |

Filter and add preservative as needed **Off Site and Deep Wells

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| Richard Chrun | 1-28-13 | 4:15 pm | Kaitlynn Goodrian | 1/29/13 | 4:15 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 $HNO_3$ 6 $H_2SO_4$ 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

Approved By: _____

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
**email: lab.geo@att.net**

**Report # Z3A2803** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## CERTIFICATE OF ANALYSIS

**Sampler:** Richard Chrun

**Sample ID:** GW-1

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2803-01 | 1/28/2013 14:21 | 10.0 | 300.0 | Chloride | **95.4** | mg/L | | 1/28/13 18:02 |
| | | 0.005 | 6020 | Arsenic, Dissolved | **0.027** | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.050 | | Iron, Dissolved | **0.082** | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | ND | ug/L | | 1/28/13 17:52 |
| | | 10.0 | SM 2540 C | Total Dissolved Solids (TDS) | **520** | mg/L | | 1/31/13 10:17 |

**Sample ID:** GW-24

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2803-03 | 1/28/2013 14:59 | 10.0 | 300.0 | Chloride | **223** | mg/L | | 1/28/13 18:02 |
| | | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.050 | | Iron, Dissolved | **0.780** | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | ND | ug/L | | 1/28/13 17:52 |
| | | 10.0 | SM 2540 C | Total Dissolved Solids (TDS) | **1010** | mg/L | | 1/31/13 10:17 |

**Sample ID:** Field Blank

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2803-04 | 1/28/2013 07:00 | 1.0 | 300.0 | Chloride | ND | mg/L | | 1/28/13 18:02 |
| | | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.050 | | Iron, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | ND | ug/L | | 1/28/13 17:53 |
| | | 10.0 | SM 2540 C | Total Dissolved Solids (TDS) | ND | mg/L | | 1/31/13 10:17 |

**Sample ID:** Equipment Rinse

| Lab ID | Sample Date / Time | RL | Method | Analyte | Result | Units | Notes | Started |
|---|---|---|---|---|---|---|---|---|
| Z3A2803-05 | 1/28/2013 07:10 | 1.0 | 300.0 | Chloride | ND | mg/L | | 1/28/13 18:02 |
| | | 0.005 | 6020 | Arsenic, Dissolved | ND | mg/L | | 1/30/13 07:50 |
| | | 0.010 | | Chromium, Dissolved | ND | mg/L | | |
| | | 0.050 | | Iron, Dissolved | ND | mg/L | | |
| | | 0.50 | 7199 | Chromium (VI) | ND | ug/L | | 1/28/13 17:53 |
| | | 10.0 | SM 2540 C | Total Dissolved Solids (TDS) | ND | mg/L | | 2/ 4/13 07:38 |

Cedric Gregory
Chemist

Donna Keller
Laboratory Director

Certification # 2585

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

**email: lab.geo@att.net**


**Report # Z3A2803** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control

## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000232 - NO PREP** | | | | **Prepared: 01/28/13 Analyzed: 02/04/13** | | | | | | |
| **Blank (Z000232-BLK1)** | | | | | | | | | | |
| Chromium (VI) | ND | 0.50 | ug/L | | | | | | | |
| **LCS (Z000232-BS1)** | | | | | | | | | | |
| Chromium (VI) | 98.4 | 0.50 | ug/L | 100.0 | | 98 | 80-120 | | | |
| **LCS Dup (Z000232-BSD1)** | | | | | | | | | | |
| Chromium (VI) | 98.4 | 0.50 | ug/L | 100.0 | | 98 | 80-120 | 0.03 | 20 | |
| **Matrix Spike (Z000232-MS1)** | | **Source: Z3A2801-02** | | | | | | | | |
| Chromium (VI) | 104 | 0.50 | ug/L | 100.0 | 2.60 | 101 | 80-120 | | | |
| **Matrix Spike Dup (Z000232-MSD1)** | | **Source: Z3A2801-02** | | | | | | | | |
| Chromium (VI) | 104 | 0.50 | ug/L | 100.0 | 2.60 | 102 | 80-120 | 0.2 | 20 | |
| **Batch Z000233 - NO PREP** | | | | **Prepared: 01/28/13 Analyzed: 02/04/13** | | | | | | |
| **Blank (Z000233-BLK1)** | | | | | | | | | | |
| Chromium (VI) | ND | 0.50 | ug/L | | | | | | | |
| **LCS (Z000233-BS1)** | | | | | | | | | | |
| Chromium (VI) | 98.4 | 0.50 | ug/L | 100.0 | | 98 | 80-120 | | | |
| **LCS Dup (Z000233-BSD1)** | | | | | | | | | | |
| Chromium (VI) | 98.4 | 0.50 | ug/L | 100.0 | | 98 | 80-120 | 0.01 | 20 | |
| **Matrix Spike (Z000233-MS1)** | | **Source: Z3A2803-04** | | | | | | | | |
| Chromium (VI) | 102 | 0.50 | ug/L | 100.0 | ND | 102 | 80-120 | | | |

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2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
**email: lab.geo@att.net**

**Report # Z3A2803** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control
## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000233 - NO PREP** | | | | **Prepared: 01/28/13 Analyzed: 02/04/13** | | | | | | |
| **Matrix Spike Dup (Z000233-MSD1)** | | **Source: Z3A2803-04** | | | | | | | | |
| Chromium (VI) | 101 | 0.50 | ug/L | 100.0 | ND | 101 | 80-120 | 0.7 | 20 | |
| **Batch Z000234 - NO PREP** | | | | **Prepared: 01/28/13 Analyzed: 01/29/13** | | | | | | |
| **Blank (Z000234-BLK1)** | | | | | | | | | | |
| Chloride | ND | 1.0 | mg/L | | | | | | | |
| **LCS (Z000234-BS1)** | | | | | | | | | | |
| Chloride | 9.0 | 1.0 | mg/L | 10.00 | | 90 | 80-120 | | | |
| **LCS Dup (Z000234-BSD1)** | | | | | | | | | | |
| Chloride | 9.1 | 1.0 | mg/L | 10.00 | | 91 | 80-120 | 0.07 | 20 | |
| **Matrix Spike (Z000234-MS1)** | | **Source: Z3A2803-04** | | | | | | | | |
| Chloride | 9.3 | 1.0 | mg/L | 10.00 | ND | 93 | 80-120 | | | |
| **Matrix Spike Dup (Z000234-MSD1)** | | **Source: Z3A2803-04** | | | | | | | | |
| Chloride | 9.3 | 1.0 | mg/L | 10.00 | ND | 93 | 80-120 | 0.7 | 20 | |
| **Batch Z000273 - NONE** | | | | **Prepared & Analyzed: 01/30/13** | | | | | | |
| **Blank (Z000273-BLK1)** | | | | | | | | | | |
| Arsenic, Dissolved | ND | 0.005 | mg/L | | | | | | | |
| Chromium, Dissolved | ND | 0.010 | " | | | | | | | |
| Iron, Dissolved | ND | 0.050 | " | | | | | | | |

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Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control

## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000273 - NONE** | | | | **Prepared & Analyzed: 01/30/13** | | | | | | |
| **LCS (Z000273-BS1)** | | | | | | | | | | |
| Arsenic, Dissolved | 0.012 | 0.005 | mg/L | 0.01250 | | 98 | 80-120 | | | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02500 | | 108 | 80-120 | | | |
| Iron, Dissolved | 0.141 | 0.050 | " | 0.1250 | | 113 | 80-120 | | | |
| **LCS Dup (Z000273-BSD1)** | | | | | | | | | | |
| Arsenic, Dissolved | 0.012 | 0.005 | mg/L | 0.01250 | | 97 | 80-120 | 0.8 | 20 | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02500 | | 107 | 80-120 | 0.7 | 20 | |
| Iron, Dissolved | 0.142 | 0.050 | " | 0.1250 | | 114 | 80-120 | 0.7 | 20 | |
| **Matrix Spike (Z000273-MS1)** | | **Source: Z3A2801-01** | | | | | | | | |
| Arsenic, Dissolved | 0.019 | 0.005 | mg/L | 0.01406 | 0.006 | 90 | 80-120 | | | |
| Chromium, Dissolved | 0.026 | 0.010 | " | 0.02812 | ND | 94 | 80-120 | | | |
| Iron, Dissolved | 0.286 | 0.050 | " | 0.1406 | 0.163 | 87 | 80-120 | | | |
| **Matrix Spike Dup (Z000273-MSD1)** | | **Source: Z3A2801-01** | | | | | | | | |
| Arsenic, Dissolved | 0.019 | 0.005 | mg/L | 0.01406 | 0.006 | 89 | 80-120 | 0.5 | 20 | |
| Chromium, Dissolved | 0.027 | 0.010 | " | 0.02812 | ND | 95 | 80-120 | 2 | 20 | |
| Iron, Dissolved | 0.286 | 0.050 | " | 0.1406 | 0.163 | 87 | 80-120 | 0 | 20 | |
| **Batch Z000299 - NO PREP** | | | | **Prepared & Analyzed: 01/31/13** | | | | | | |
| **Blank (Z000299-BLK1)** | | | | | | | | | | |
| Total Dissolved Solids (TDS) | ND | 10.0 | mg/L | | | | | | | |
| **Duplicate (Z000299-DUP1)** | | **Source: Z3A2504-02** | | | | | | | | |
| Total Dissolved Solids (TDS) | 739 | 10.0 | mg/L | | 777 | | | 5 | 10 | |

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**email: lab.geo@att.net**


**Report # Z3A2803** **Project: Annual GMP for January samples 1/28/2013** **Date:** 02/06/13

Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Inorganic Chemistry - Quality Control

## GeoAnalytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch Z000310 - NO PREP** | | | | **Prepared: 02/04/13 Analyzed: 02/06/13** | | | | | | |
| **Blank (Z000310-BLK1)** | | | | | | | | | | |
| Total Dissolved Solids (TDS) | ND | 10.0 | mg/L | | | | | | | |
| **Duplicate (Z000310-DUP1)** | | **Source: Z3A2905-03** | | | | | | | | |
| Total Dissolved Solids (TDS) | 612 | 10.0 | mg/L | | 616 | | | 0.7 | 10 | |

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Valley Wood Preserving
P.O Box 1805
Turlock, CA 95381

**Date Rec'd:** 01/28/13

## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| RL | Reporting Limit |
| NA | Not Applicable |

# GeoAnalytical Laboratories, Inc.

2300 Maryann Dr
Turlock, CA 95380

Phone: (209) 669 0100
Fax: (209) 668 8516

Lab Report # 23A2803

Regulatory ☐ Yes ☐ No CC: ☐ Yes ☐ No

Regulator:

Phone: ( 209 ) 632-9931

Fax: ( 209 ) 632-8349

Original To: Bob Schmidt

C.C To: Krissi McIlvenna, MWH Americas

Client: Valley Wood Preserving

Address: PO Box 1805

City Turlock, CA Zip 95381

## CHAIN OF CUSTODY

☐ EDF ☐ EDT

☑ FIELD LOGS

Project ID Annual GMP for January 2013 sampled 1/ 28 /2013*

Sampled By (Print Name) Richard Chrun

(Signature) Richard Chrun

| Date | Time | Sample type Grab | Sample type Comp | Matrix | Sample ID | Container Type | Container Size | No. Of Containers | Fe,As,Cr (Diss 6020) | Chrome VI (7199) | Chloride, TDS | | | | | | | Lab Use Only: Lab ID # | Lab Use Only: Preservative |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01/28/13 | 2:21pm | ✓ | | HWW | GW-1 | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -01 | 1 |
| 01/28/13 | — | ✓ | | HWW | GW-12V Dry (no Sample) | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -02 | 1 |
| 01/28/13 | 2:59pm | ✓ | | HWW | GW-24 | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -03 | 1 |
| 01/28/13 | 7:00am | ✓ | | | Field Blank | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -04 | 1 |
| 01/28/13 | 7:10am | ✓ | | | Equipment Rinse | Pl | 250ml | 1 | ✓ | ✓ | ✓ | | | | | | | -05 | 1 |

Filter and add preservative as needed *On Site Wells

| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
|---|---|---|---|---|---|
| Richard Chrun | 1-28-13 | 4:15pm | Kathlynn Goodrich | 1/28/13 | 4:15 |
| Relinquished by (Signature) | Date | Time | Received by (Signature) | Date | Time |
| | | | | | |

Preservative: 1 4°C 2 HCL 3 NaOH 4 $Na_2S_2O_3$ 5 $HNO_3$ 6 $H_2SO_4$ 7 Other _____

Matrix: DW Drinking Water WW Waste Water HWW Hazardous Waste (Water) S Soil/Solid

Bailers _____ 55 Gallon Drums _____

Pump Truck ☐ Time Mileage

Turnaround Time ☐ Standard ☐ Silver Rush ☐ Gold Rush ☐ Platinum Rush ☐ Other

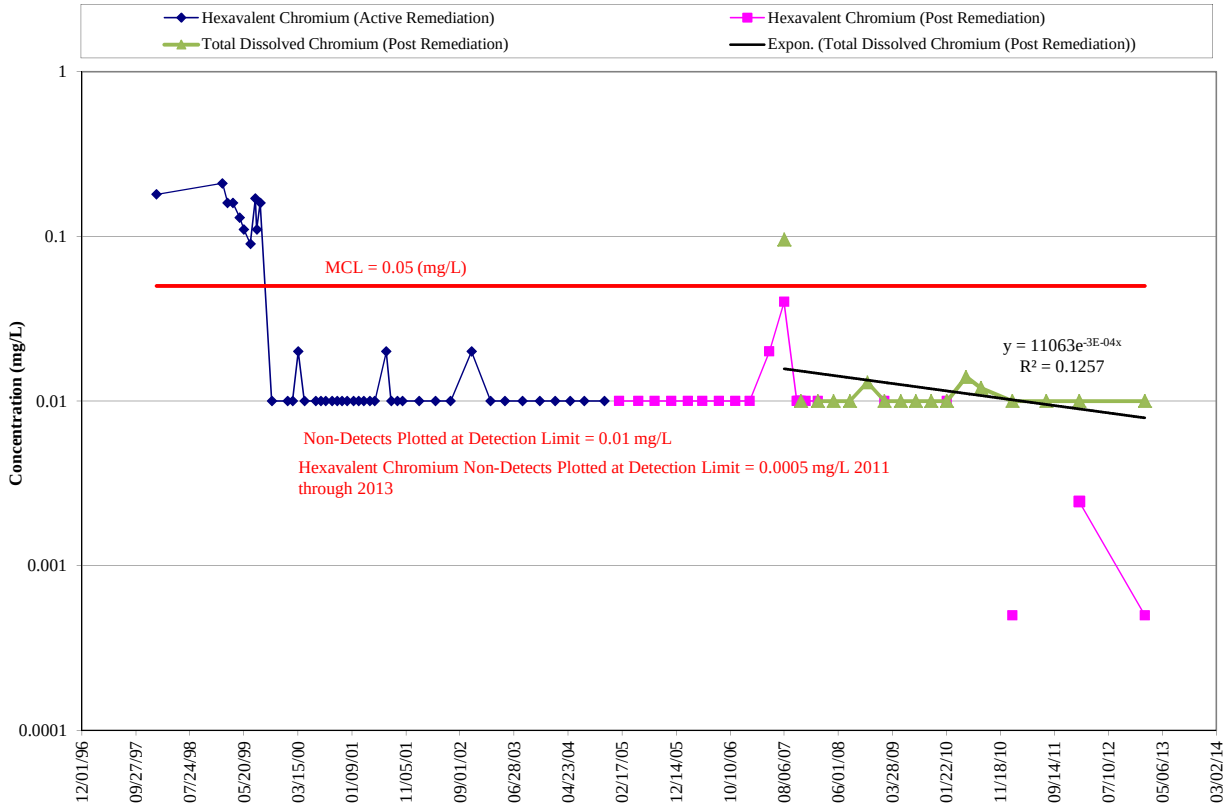
Approved By: _____

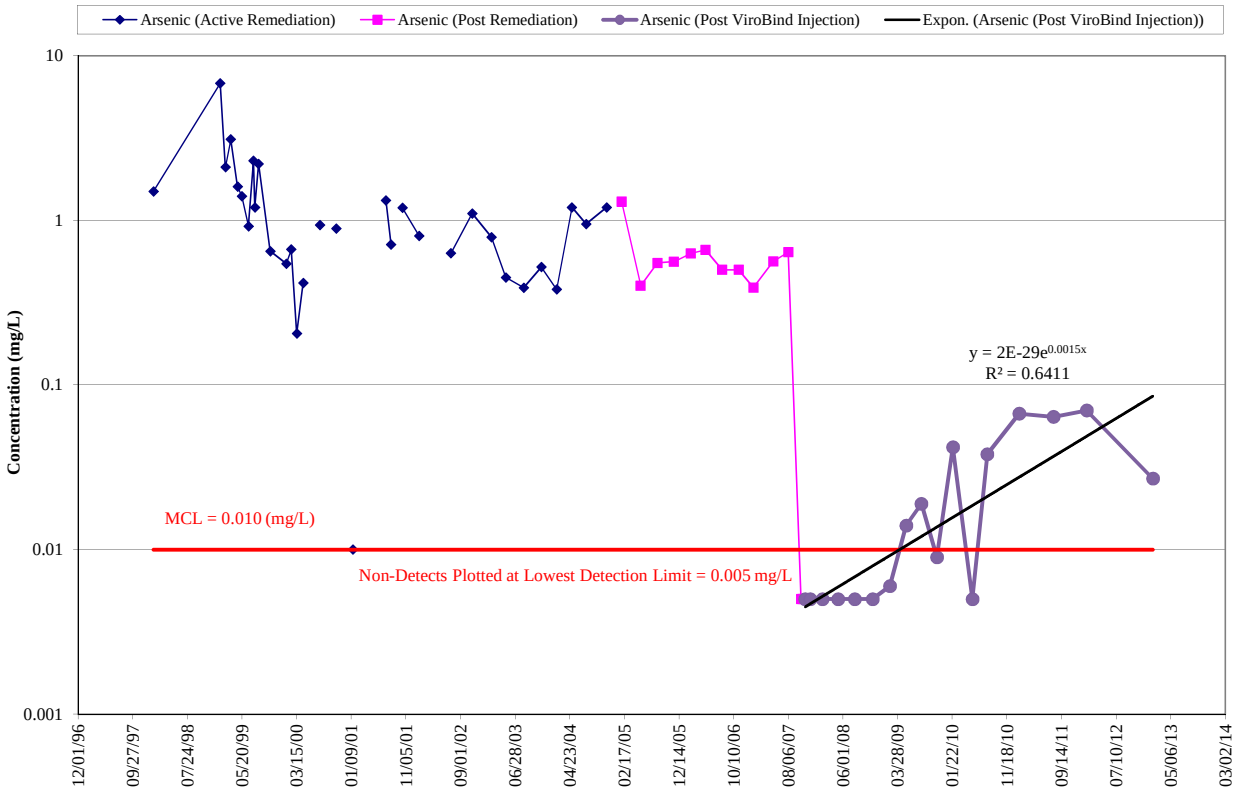
# ATTACHMENT B

## Graphs of Historical Data

**Well GW-1**

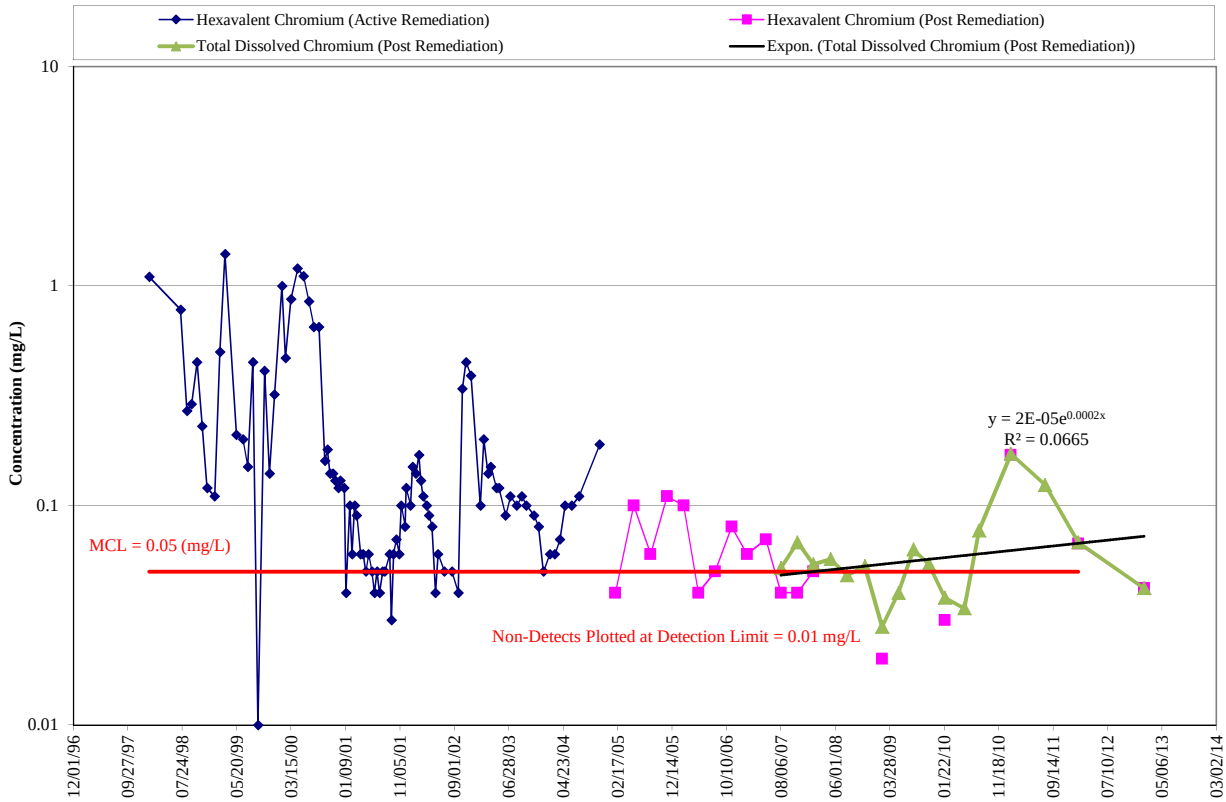
**Chromium and Arsenic Trend Graphs**

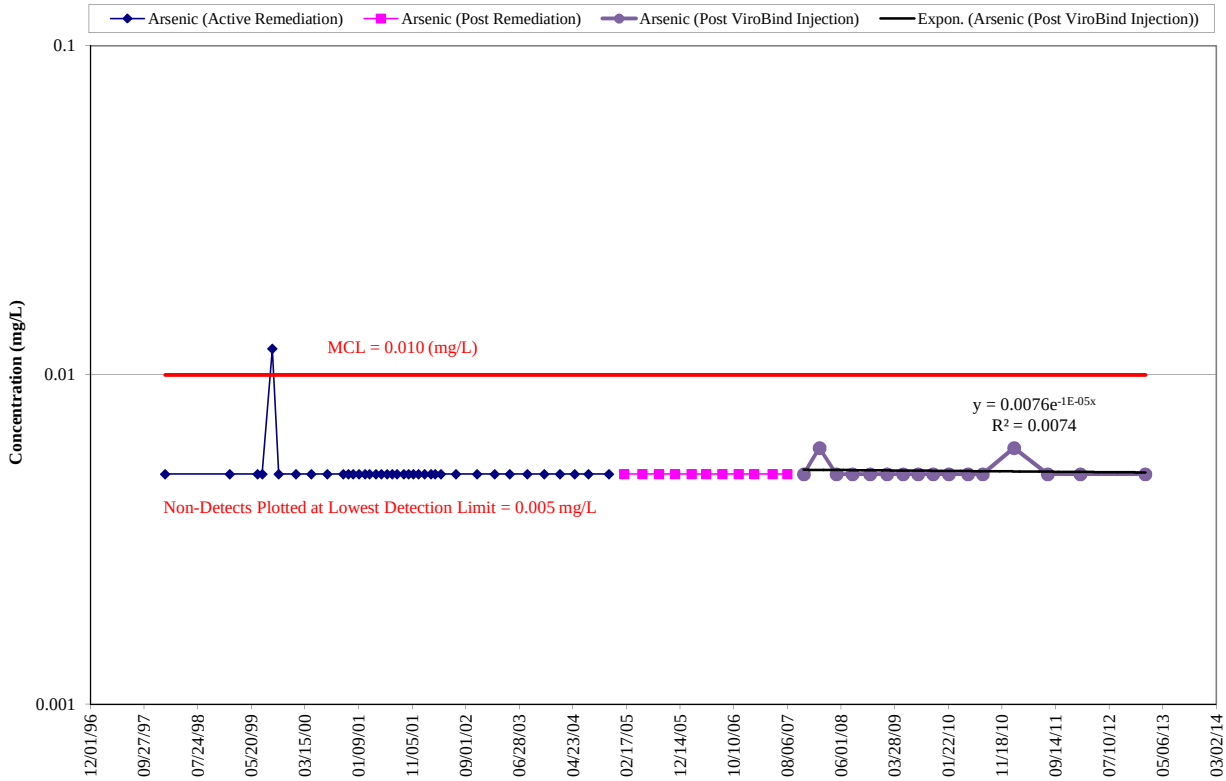


**Well GW-15A**

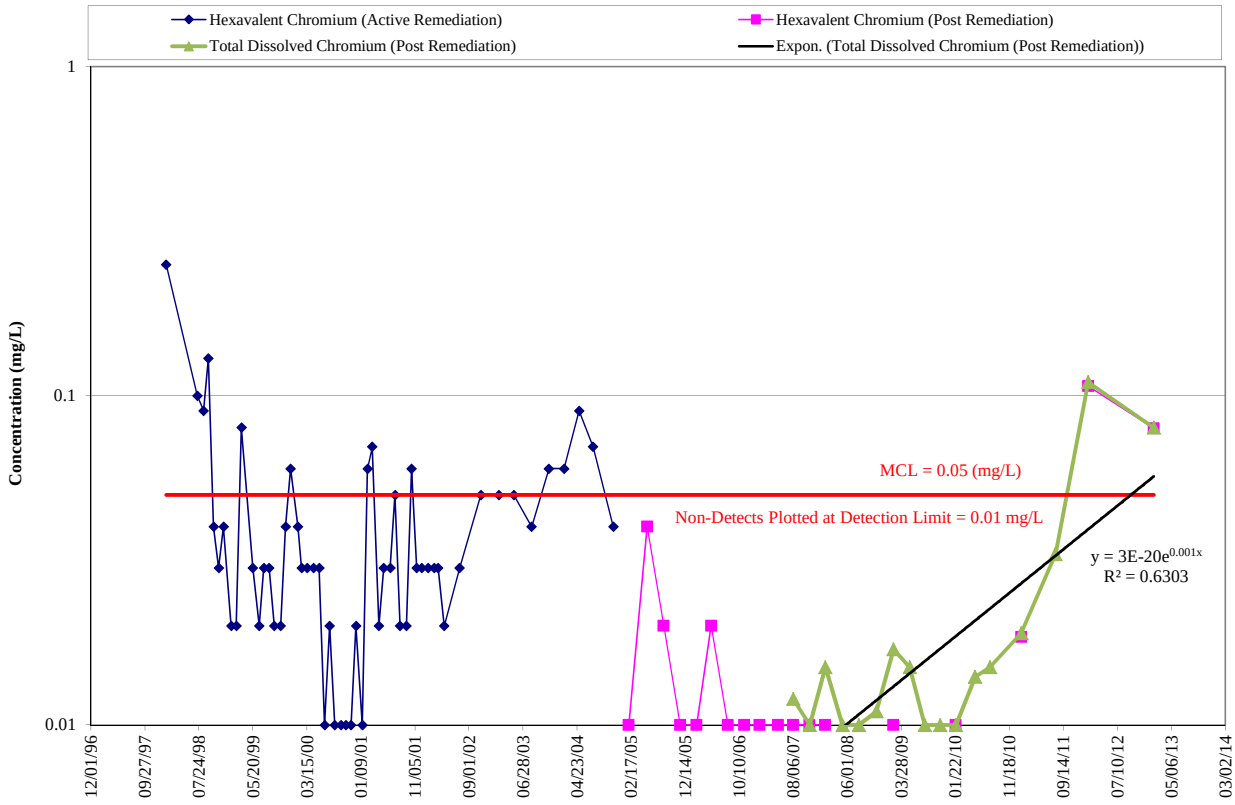
**Chromium and Arsenic Trend Graphs**

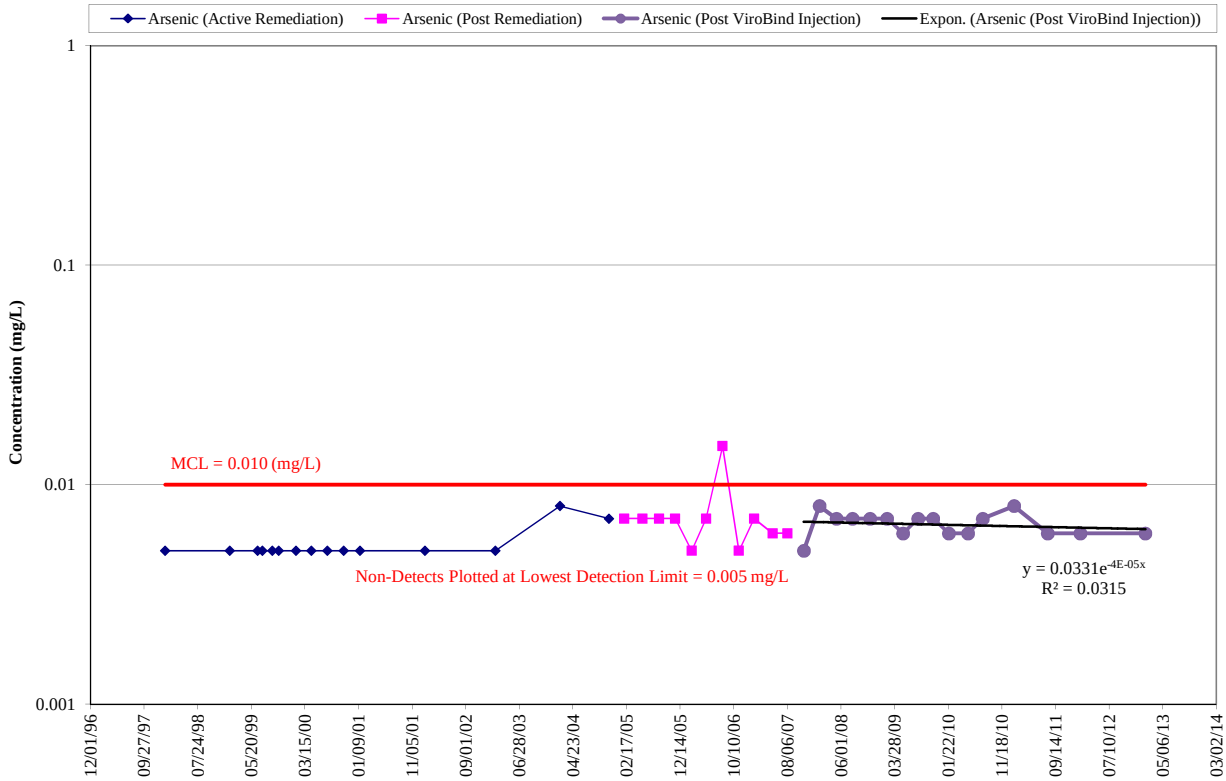


**Well GW-15B**

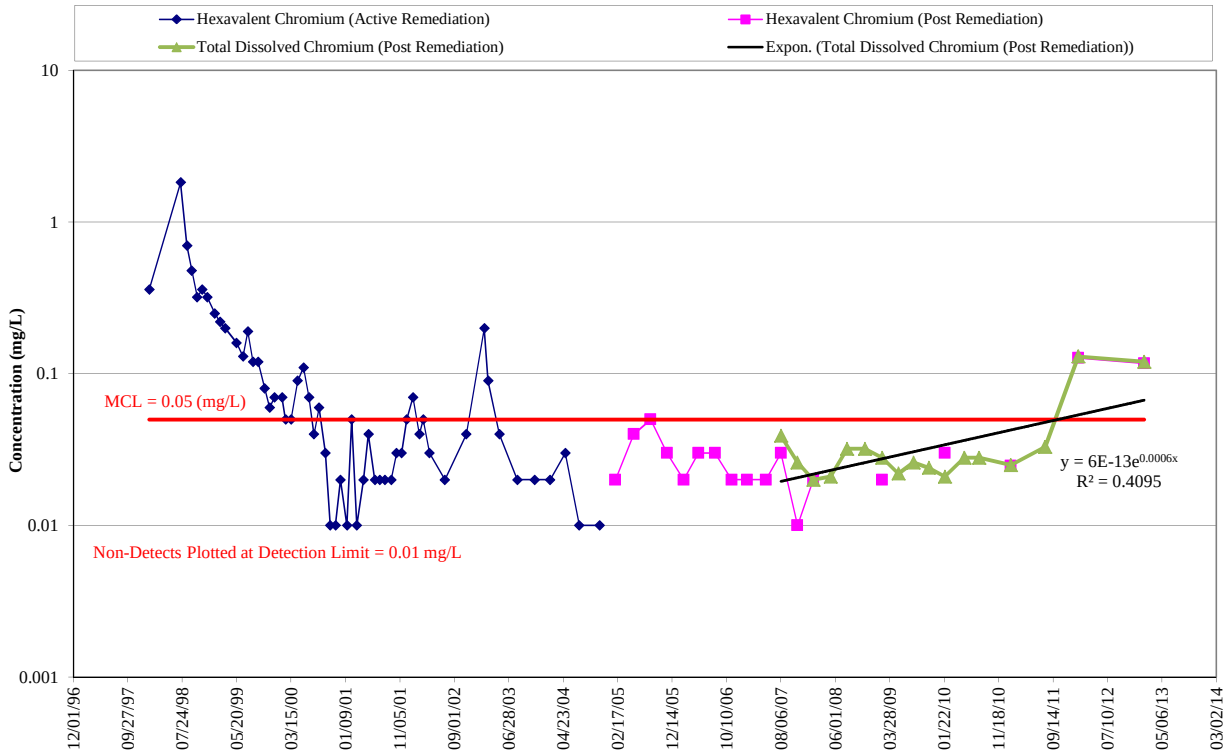
**Chromium and Arsenic Trend Graphs**

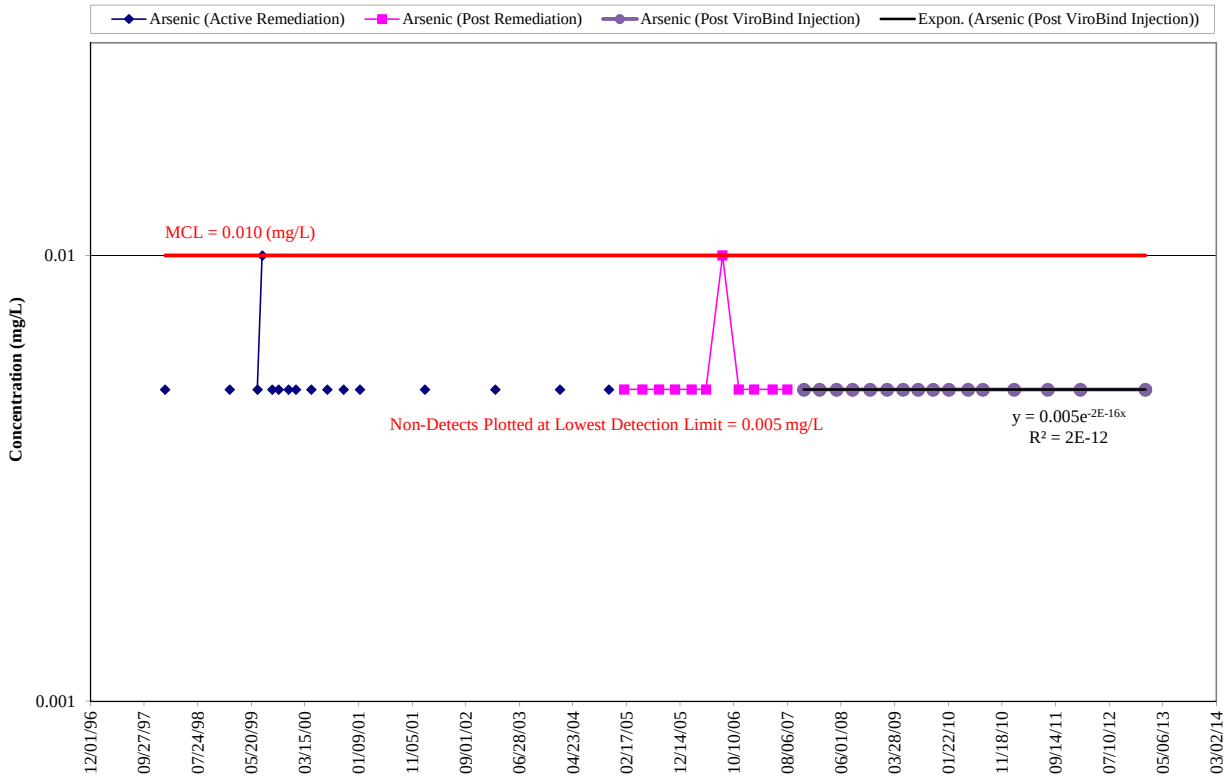


**Well GW-15C**

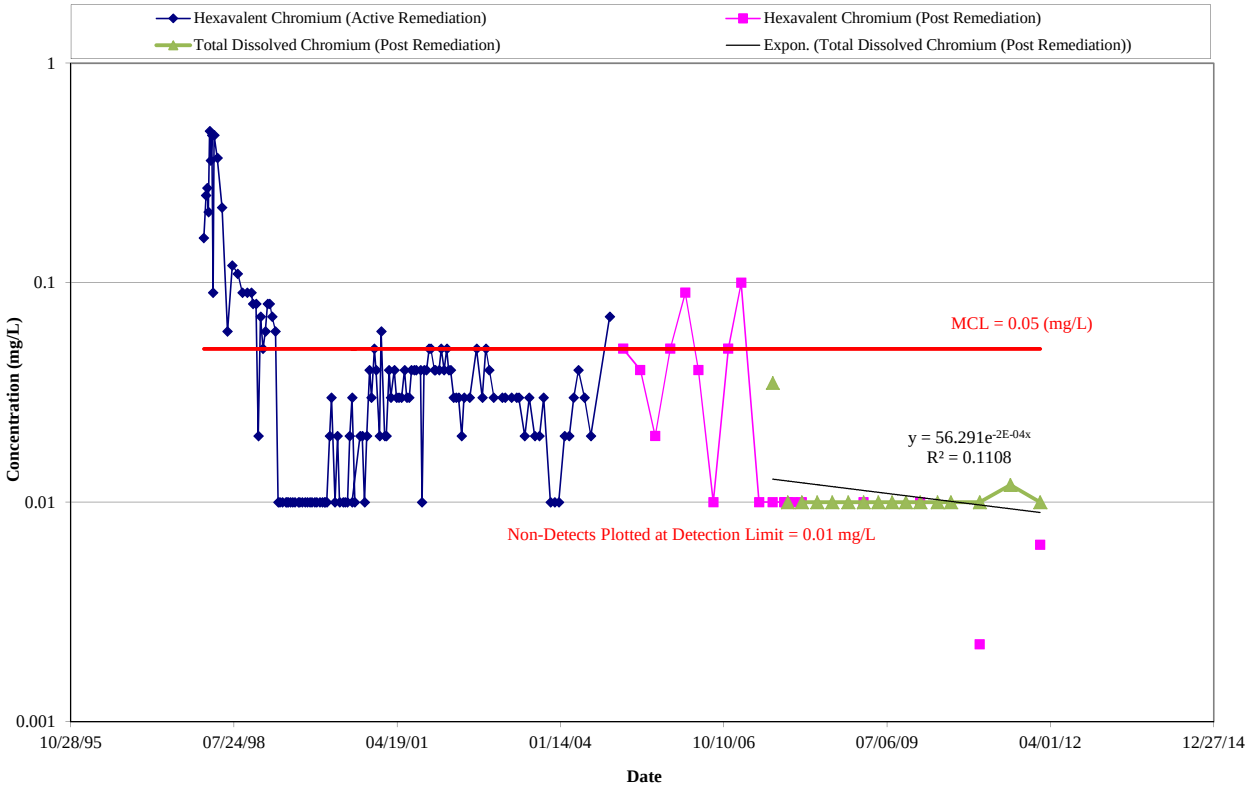
**Chromium and Arsenic Trend Graphs**

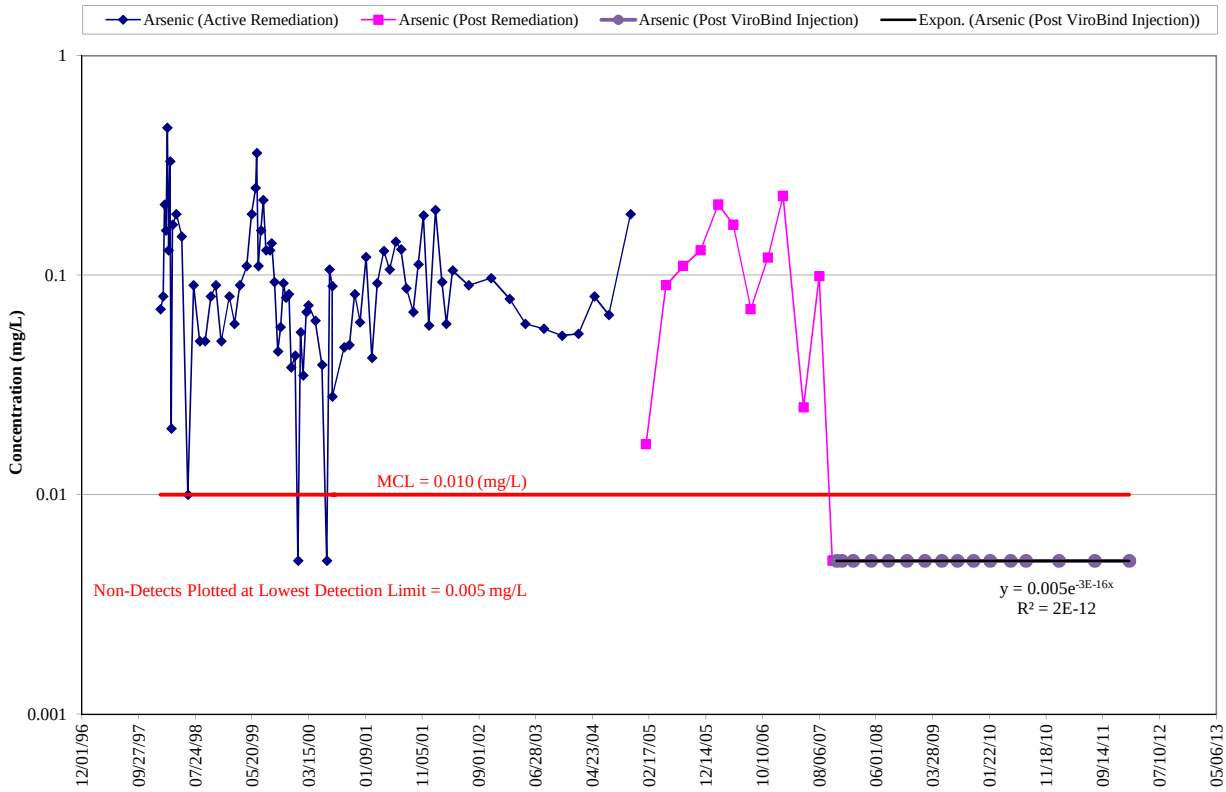


**Well GW-2**

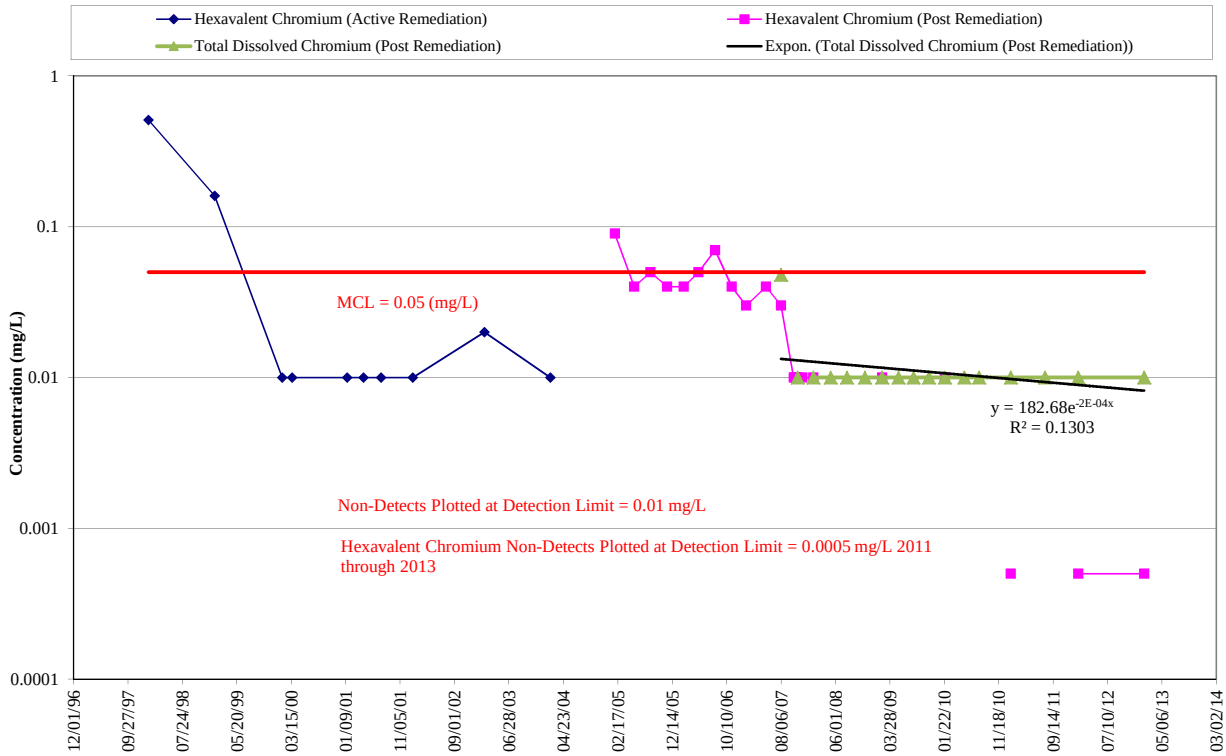
**Chromium and Arsenic Trend Graphs**

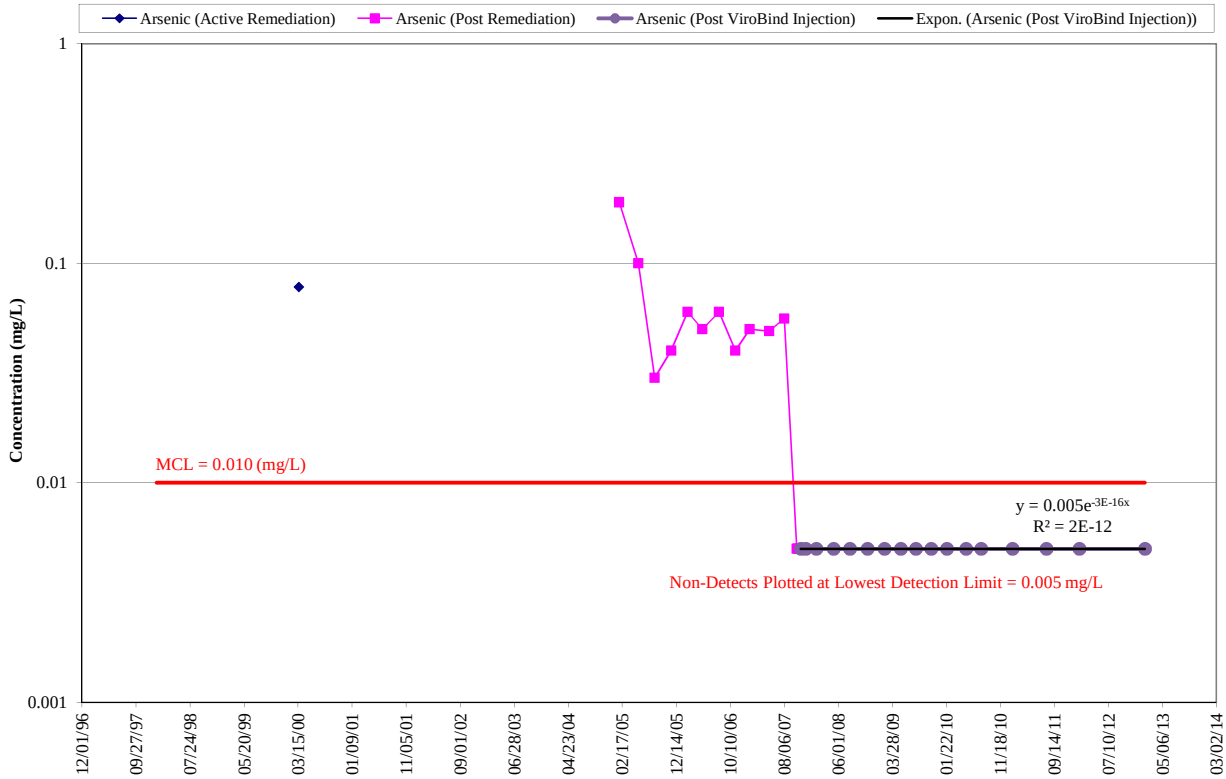


**Well GW-24**

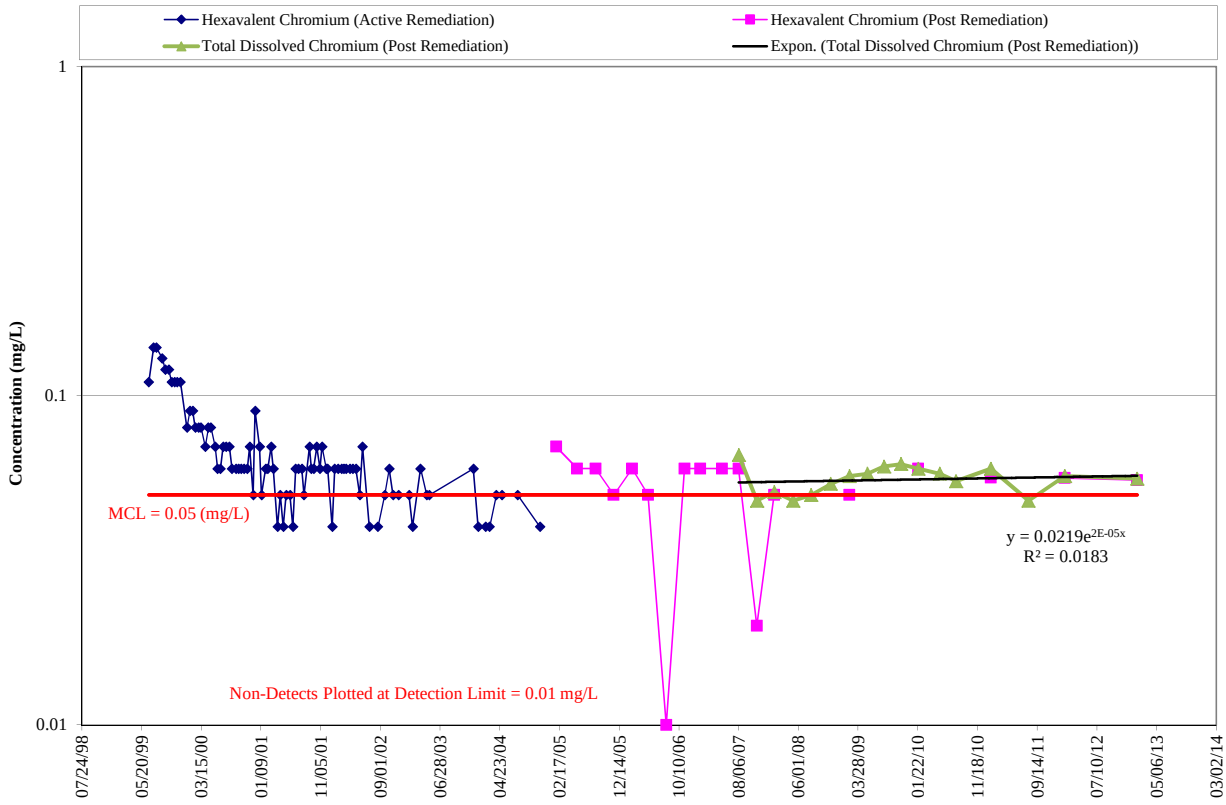
**Chromium and Arsenic Trend Graphs**

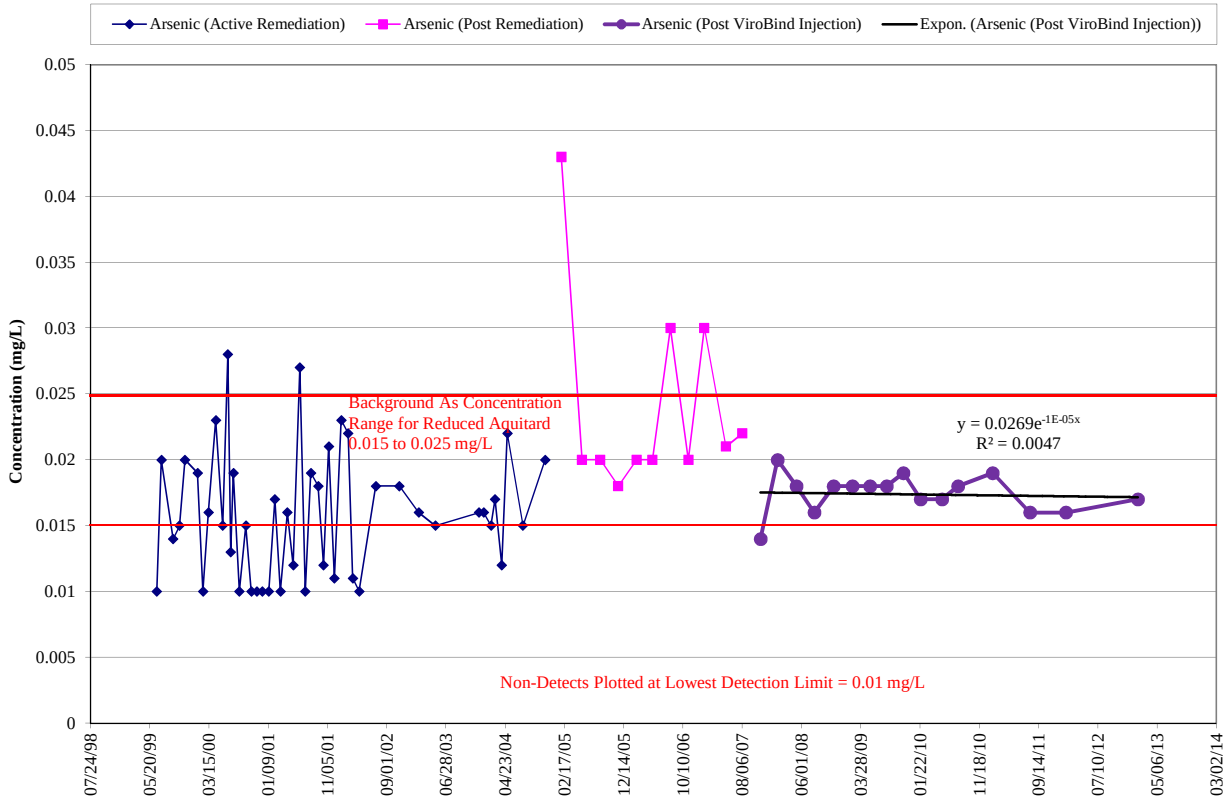


**Well GW-39D**

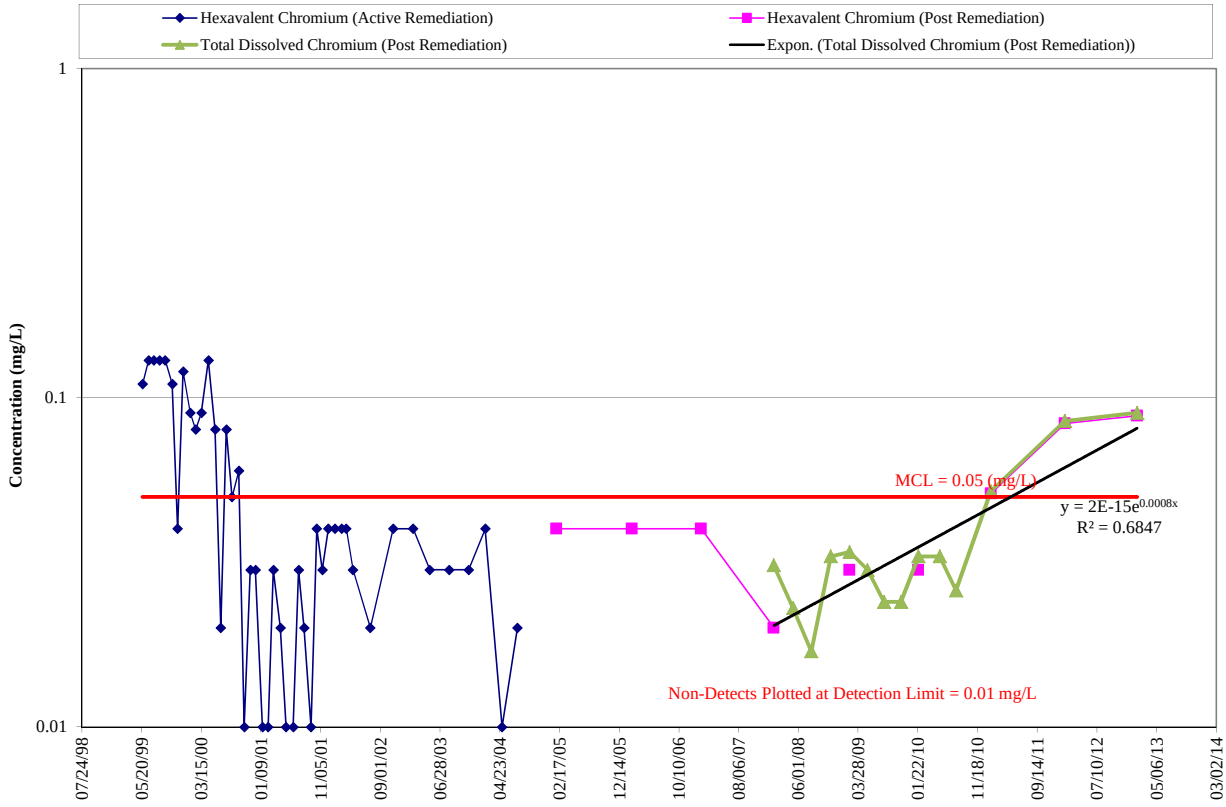
**Chromium and Arsenic Trend Graphs**

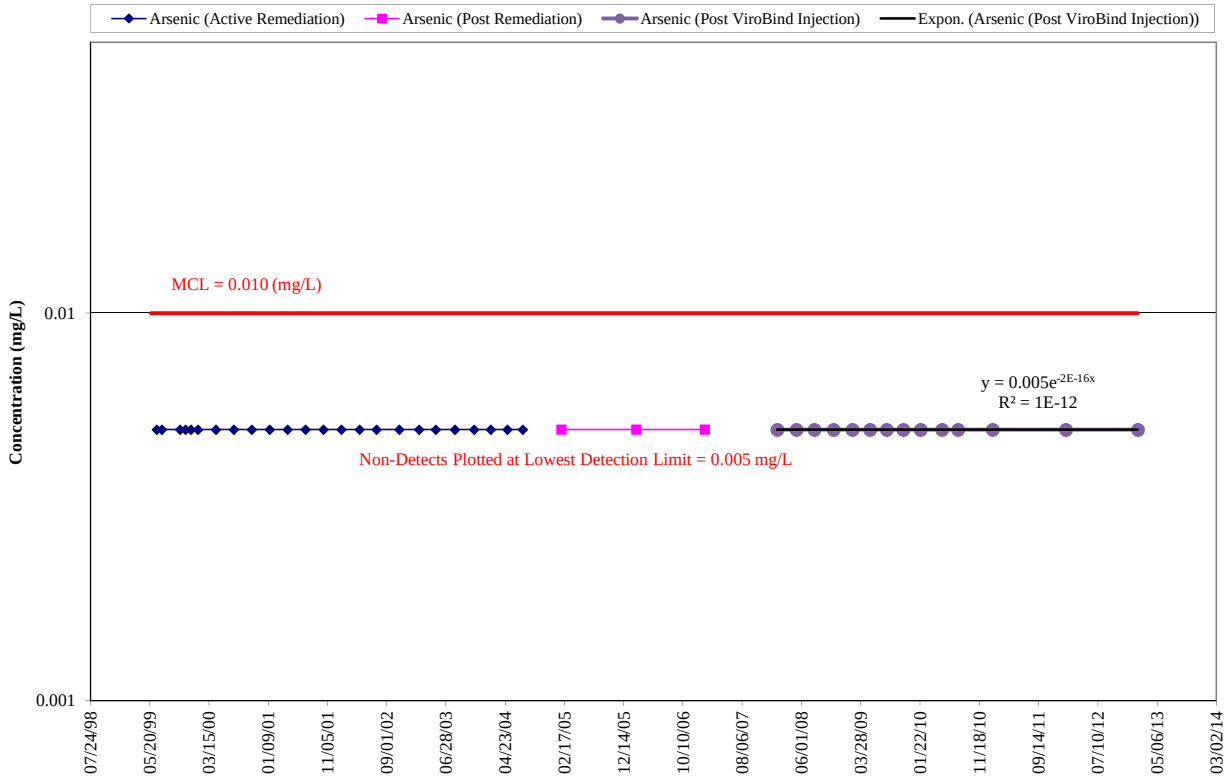


**Well I-37**

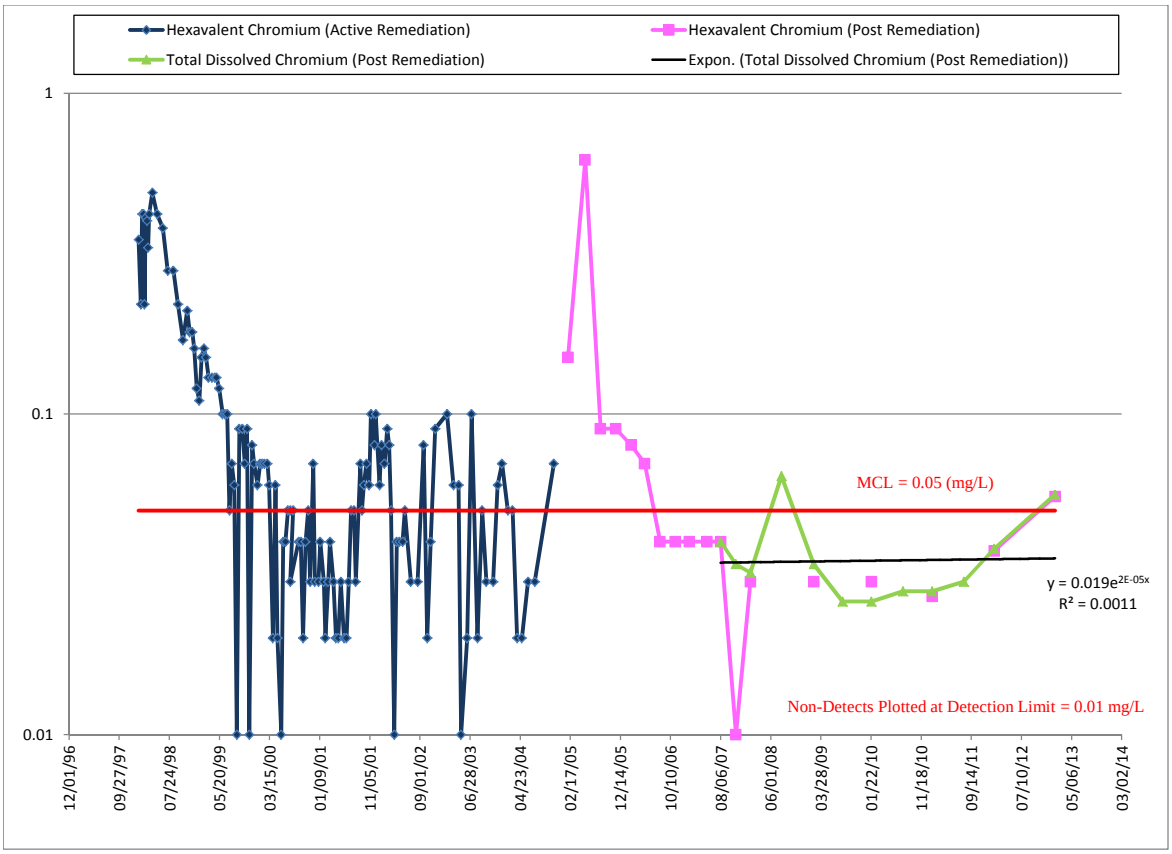
**Chromium and Arsenic Trend Graphs**

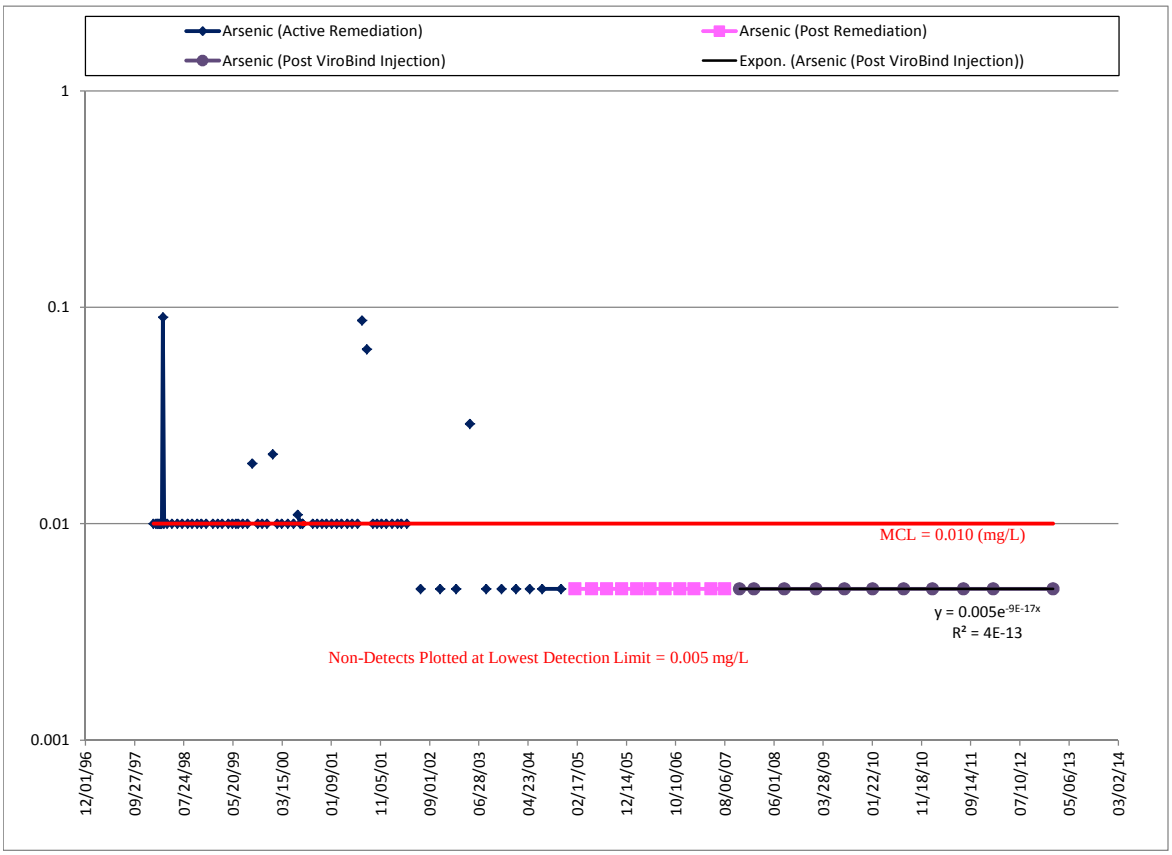


**Well GW-5**

**Hexavalent Chromium and Arsenic Trend Graphs**



# ATTACHMENT C

## Statistical Analyses Methodology and Results

**Statistical Evaluation**

This section describes the data input and statistical method for establishing the upper confidence limit (UCL) on the mean concentration. The statistical analysis was performed by calculating the 95 percent UCL on the mean concentration for: dissolved chromium and arsenic using available data from November 2007 to present (post-treatment period).

Specifically, the 95 percent UCL on the mean concentration were calculated for the above-mentioned constituents detected in the following groundwater monitoring wells: GW-1, GW-5, GW-15A, GW-15B, GW-15C, GW-24, GW-39D, and I-37, and domestic wells: ATKINSON-1, COX-2, DIXON-2, ELLIOT-2, ENCOMIO-2, HOLLISTER-2, SEGARS-6, SEGARS-7, SEGARS-8, SEGARS-9, VWP-4. Statistical analyses were not performed for wells previously approved for abandonment. The evaluation indicated the following:

- Data from November 2007 to present:
    - The 95 percent UCL on the mean concentration for dissolved chromium was slightly above the ROD-specified cleanup level of 0.05 milligrams per Liter (mg/L) in three wells GW-15A, GW-15C and GW-39D.
    - The 95 percent UCL on the mean concentration for arsenic was above the ROD-specified cleanup level of 0.01 mg/L in two wells, GW-1 and GW-39D; however this cleanup level does not apply to GW-39D because this well is screened within the reduced aquitard where naturally occurring background arsenic is present at the detected concentrations.
    - None of the domestic monitoring wells indicated any results above the respective arsenic and dissolved chromium cleanup levels.

All calculations were performed using the United States Environmental Protection Act (USEPA) ProUCL (Version 4.1) statistical modeling software. The program computes UCLs using 15 UCL computation methods for full data sets without any below detection limit (BDL) observations; 5 are parametric and 10 are nonparametric methods. The nonparametric methods do not depend upon any assumptions about the data distributions. The five parametric UCL computation methods are: 1) student's t-UCL; 2) approximate gamma UCL using chi-square approximation; 3) adjusted gamma UCL (adjusted for level significance); 4) Land's H-UCL, and 5) Chebyshev inequality-based UCL (using MVUEs of parameters of a lognormal distribution). The 10 nonparametric methods are: 1) central limit theorem (CLT)-based UCL; 2) modified-t statistic (adjusted for skewness)-based UCL; 3) adjusted-CLT (adjusted for skewness)-based UCL; 4) Chebyshev inequality-based UCL (using sample mean and sample standard deviation); 5) Jackknife method-based UCL; 6) UCL based upon standard bootstrap; 7) UCL based upon percentile bootstrap; 8) UCL based upon bias-corrected accelerated (BCA) bootstrap; 9) UCL based upon bootstrap t; and 10) UCL based upon Hall's bootstrap. Several parametric and nonparametric UCL computation methods for data sets with non-detect values are also

incorporated in the program. Methods such as the Kaplan-Meier (KM) and regression on order statistics (ROS) methods can handle multiple detection limits. Note that it is typically not desirable to use statistical methods on datasets consisting of all non-detect values. For parameters with less than four detected sample results, the 95 percent UCL of the mean concentration is not calculated and therefore, not processed. The statistical results and the most appropriate method used are summarized on Table C1 and the ProUCL outputs are presented in Table C2.

**Table C-1**
**Statistical Evaluation - Summary of Results**

| Well Type | Analyte | Well Location | Total Number of Results | Number of Distinct Detected Values | Number of Detections | Number of Non-Detects | Maximum Detected (mg/L) | Mean of Detected (mg/L) | Standard Deviation of Detected | 95% UCL | Recommended UCL Calculation Method Used | Calculation Method | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monitoring Wells | Dissolved Chromium (Nov '07 - Jan '13) *clean-up goal: 0.05 mg/L* | GW-1 | 16 | 3 | 3 | 13 | 0.014 | 0.013 | 0.001 | 0.0125 | 95% KM (t) UCL | Nonparametric | There are insufficient Distinct Detected Values (3) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | 0.014 | *or 95% KM (Percentile Bootstrap) UCL* | Nonparametric | |
| | | GW-5 | 11 | 8 | 11 | 0 | 0.064 | 0.036 | 0.0126 | 0.0429 | 95% Student's-t UCL | Normal | |
| | | | | | | | | | | 0.0432 | 95% Modified-t UCL | Normal-Adjusted for Skewness | |
| | | GW-15A | 16 | 14 | 16 | 0 | 0.172 | 0.0638 | 0.0365 | **0.0799** | 95% Approximate Gamma UCL | Gamma | |
| | | GW-15B | 16 | 9 | 12 | 4 | 0.11 | 0.0291 | 0.032 | 0.0389 | 95% KM (BCA) UCL | Nonparametric | |
| | | GW-15C | 16 | 11 | 16 | 0 | 0.13 | 0.0385 | 0.0341 | **0.0756** | 95% Chebyshev (Mean, Sd) UCL | Nonparametric | |
| | | GW-24 | 16 | 0 | 0 | 16 | NA | NC | NC | NC | NA | NA | All observations are Non-Detects - data set not processed. |
| | | GW-39D | 16 | 11 | 16 | 0 | 0.062 | 0.0552 | 0.00483 | **0.0573** | 95% Student's-t UCL | Normal | |
| | | I-37 | 14 | 11 | 14 | 0 | 0.09 | 0.032 | 0.0224 | 0.0488 | 95% Student's-t UCL | Normal | |
| | | | | | | | | | | 0.0493 | *or 95% Modified-t UCL* | Normal-Adjusted for Skewness | |
| | Arsenic (Nov '07 - Jan '13) *clean-up goal: 0.010 mg/L* | GW-1 | 17 | 10 | 10 | 7 | 0.07 | 0.0356 | 0.0245 | **0.0337** | 95% KM (t) UCL | Nonparametric | |
| | | | | | | | | | | **0.0343** | *or 95% KM (Percentile Bootstrap) UCL* | Nonparametric | |
| | | GW-5 | 11 | 0 | 0 | 11 | NA | NC | NC | NC | NA | NA | All observations are Non-Detects - data set not processed. |
| | | GW-15A | 16 | 2 | 6 | 10 | 0.006 | 0.00533 | 0.0005164 | 0.00528 | 95% KM (t) UCL | Nonparametric | There are insufficient Distinct Detected Values (2) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | NA | *or 95% KM (% Bootstrap) UCL* | Nonparametric | |
| | | GW-15B | 16 | 4 | 16 | 0 | 0.008 | 0.00663 | 0.00080623 | 0.00698 | 95% Student's-t UCL | Normal | There are insufficient Distinct Detected Values (4) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | 0.00698 | *or 95% Modified-t UCL* | Normal-Adjusted for Skewness | |
| | | GW-15C | 16 | 0 | 0 | 16 | NA | NC | NC | NC | NA | NA | All observations are Non-Detects - data set not processed. |
| | | GW-24 | 17 | 1 | 1 | 16 | 0.005 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | GW-39D | 16 | 6 | 16 | 0 | 0.02 | 0.0174 | 0.00146 | **0.0181** | 95% Student's-t UCL | Normal | |
| | | I-37 | 14 | 0 | 0 | 14 | NA | NC | NC | NC | NA | NA | All observations are Non-Detects - data set not processed. |

**Table C-1**
**Statistical Evaluation - Summary of Results**

| Well Type | Analyte | Well Location | Total Number of Results | Number of Distinct Detected Values | Number of Detections | Number of Non-Detects | Maximum Detected (mg/L) | Mean of Detected (mg/L) | Standard Deviation of Detected | 95% UCL | Recommended UCL Calculation Method Used | Calculation Method | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Domestic Wells | Dissolved Chromium (Nov '07 - Jan '13) *clean-up goal: 0.05 mg/L* | ATKINSON-1 | 5 | 1 | 1 | 4 | 0.011 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | COX-2 | 6 | 1 | 1 | 5 | 0.012 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | DIXON-2 | 6 | 3 | 3 | 3 | 0.02 | 0.0137 | 0.00551 | 0.0155 | 95% KM (t) UCL | Nonparametric | There are insufficient Distinct Detected Values (3) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | NA | *or 95% KM (Percentile Bootstrap) UCL* | Nonparametric | |
| | | ELLIOT-2 | 6 | 0 | 0 | 6 | NA | NC | NC | NC | NA | NA | All observations are Non-Detects - data set not processed. |
| | | ENCOMIO-2 | 6 | 1 | 1 | 5 | 0.01 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | HOLLISTER-2 | 6 | 1 | 1 | 5 | 0.015 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | SEGARS-6 | 6 | 2 | 2 | 4 | 0.036 | 0.024 | 0.017 | 0.0264 | 95% KM (t) UCL | Nonparametric | There are insufficient Distinct Detected Values (2) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | NA | *or 95% KM (% Bootstrap) UCL* | Nonparametric | |
| | | SEGARS-7 | 6 | 1 | 1 | 5 | 0.01 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | SEGARS-8 | 6 | 1 | 1 | 5 | 0.011 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | SEGARS-9 | 6 | 1 | 1 | 5 | 0.01 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | VWP-4 | 6 | 0 | 0 | 6 | NA | NC | NC | NC | NA | NA | All observations are Non-Detects - data set not processed. |
| | Arsenic (Nov '07 - Jan '13) *clean-up goal: 0.010 mg/L* | ATKINSON-1 | 5 | 2 | 5 | 0 | 0.007 | 0.0064 | 0.00054772 | 0.00692 | 95% Student's-t UCL | Normal | There are insufficient Distinct Detected Values (2) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | 0.00693 | *or 95% Modified-t UCL* | Normal-Adjusted for Skewness | |
| | | COX-2 | 6 | 0 | 0 | 6 | NA | NC | NC | NC | NA | NA | All observations are Non-Detects - data set not processed. |
| | | DIXON-2 | 6 | 0 | 0 | 6 | NA | NC | NC | NC | NA | NA | All observations are Non-Detects - data set not processed. |
| | | ELLIOT-2 | 6 | 2 | 6 | 0 | 0.007 | 0.0065 | 0.00054772 | 0.00695 | 95% Student's-t UCL | Normal | There are insufficient Distinct Detected Values (2) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | 0.00695 | *or 95% Modified-t UCL* | Normal-Adjusted for Skewness | |
| | | ENCOMIO-2 | 6 | 3 | 6 | 0 | 0.008 | 0.00717 | 0.00075277 | 0.00779 | 95% Student's-t UCL | Normal | There are insufficient Distinct Detected Values (3) to perform some GOF tests, bootstrap, and ROS methods. |
| | | HOLLISTER-2 | 6 | 1 | 1 | 5 | 0.005 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | SEGARS-6 | 6 | 1 | 1 | 5 | 0.005 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | SEGARS-7 | 6 | 2 | 5 | 1 | 0.006 | 0.0052 | 0.0004472 | 0.00591 | 95% KM (Chebyshev) UCL | Nonparametric | There are insufficient Distinct Detected Values (2) to perform some GOF tests, bootstrap, and ROS methods. |
| | | SEGARS-8 | 6 | 1 | 2 | 4 | 0.005 | NC | NC | NC | NA | NA | Only one distinct value was detected in this data set - data set not processed. |
| | | SEGARS-9 | 6 | 2 | 3 | 3 | 0.006 | 0.00533 | 0.0005774 | 0.00554 | 95% KM (t) UCL | Nonparametric | There are insufficient Distinct Detected Values (2) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | NA | *or 95% KM (% Bootstrap) UCL* | Nonparametric | |
| | | VWP-4 | 6 | 2 | 2 | 4 | 0.006 | 0.0055 | 0.0007071 | 0.0056 | 95% KM (t) UCL | Nonparametric | There are insufficient Distinct Detected Values (2) to perform some GOF tests, bootstrap, and ROS methods. |
| | | | | | | | | | | NA | *or 95% KM (% Bootstrap) UCL* | Nonparametric | |

Abbreviations:

| | |
|---|---|
| mg/L | milligrams per liter |
| UCL | Upper Confidence Limit |
| **bold** | Exceeds screening level |
| NA | Not applicable |
| NC | Not calculated |
| GOF | Goodness of Fit |
| ROS | Regression on Order Statistics |

Notes:

1. For non-detected values, the detection limits were used for statistical calculations.
2. It is necessary to have 4 or more observations and 2 or more distinct detected values to run UCL calculations. However, 5 to 7 observations may not compute meaningful and reliable test statistics and estimates. It is suggested that at least 8 to 10 observations are used for these statistical methods.
3. It is necessary to have 4 or more distinct values to compute bootstrap methods. However, results obtained using 4 to 9 distinct values may not be reliable. It is recommended to have 10 to 15 or more observations for accurate and meaningful bootstrap results.
4. The 'Recommended UCL Calculation Methods' listed are from ProUCL 4.1 results output and are based on the results of the simulation studies summarized in: Singh, Singh, and Iaci (2002); Singh and Singh (2003); and Singh, Maichle and Lee (2006).

## General UCL Statistics for Data Sets with Non-Detects

**User Selected Options**

| | |
|---|---|
| From File | data_Nov2007-Jan2013.wst |
| Full Precision | OFF |
| Confidence Coefficient | 95% |
| Number of Bootstrap Operations | 2000 |

### Dissolved Chromium (mg/l) (atkinson-1)

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Data | 5 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 4 |
| | | Percent Non-Detects | 80.00% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (atkinson-1) was not processed!

### Dissolved Chromium (mg/l) (cox-2)

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 5 |
| | | Percent Non-Detects | 83.33% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (cox-2) was not processed!

### Dissolved Chromium (mg/l) (dixon-2)

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 3 |
| Number of Distinct Detected Data | 3 | Number of Non-Detect Data | 3 |
| | | Percent Non-Detects | 50.00% |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum Detected | 0.01 | Minimum Detected | -4.605 |
| Maximum Detected | 0.02 | Maximum Detected | -3.912 |
| Mean of Detected | 0.0137 | Mean of Detected | -4.342 |
| SD of Detected | 0.00551 | SD of Detected | 0.376 |
| Minimum Non-Detect | 0.01 | Minimum Non-Detect | -4.605 |
| Maximum Non-Detect | 0.01 | Maximum Non-Detect | -4.605 |

Warning: There are only 3 Distinct Detected Values in this data set
The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

## UCL Statistics

### Normal Distribution Test with Detected Values Only

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.824 |
| 5% Shapiro Wilk Critical Value | 0.767 |

Data appear Normal at 5% Significance Level

### Assuming Normal Distribution

| | |
|---|---|
| DL/2 Substitution Method | |
| Mean | 0.00933 |
| SD | 0.00589 |
| 95% DL/2 (t) UCL | 0.0142 |
| | |
| Maximum Likelihood Estimate(MLE) Method | |
| Mean | 0.0093 |
| SD | 0.00602 |
| 95% MLE (t) UCL | 0.0143 |
| 95% MLE (Tiku) UCL | 0.0154 |

### Lognormal Distribution Test with Detected Values Only

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.851 |
| 5% Shapiro Wilk Critical Value | 0.767 |

Data appear Lognormal at 5% Significance Level

### Assuming Lognormal Distribution

| | |
|---|---|
| DL/2 Substitution Method | |
| Mean | -4.82 |
| SD | 0.575 |
| 95% H-Stat (DL/2) UCL | 0.0197 |
| | |
| Log ROS Method | |
| Mean in Log Scale | -4.954 |
| SD in Log Scale | 0.746 |
| Mean in Original Scale | 0.00883 |
| SD in Original Scale | 0.0064 |
| 95% t UCL | 0.0141 |
| 95% Percentile Bootstrap UCL | 0.0131 |
| 95% BCA Bootstrap UCL | 0.0138 |
| 95% H UCL | 0.0281 |

### Gamma Distribution Test with Detected Values Only

| | |
|---|---|
| k star (bias corrected) | N/A |
| Theta Star | N/A |
| nu star | N/A |
| | |
| A-D Test Statistic | N/A |
| 5% A-D Critical Value | N/A |
| K-S Test Statistic | N/A |
| 5% K-S Critical Value | N/A |

Data not Gamma Distributed at 5% Significance Level

### Assuming Gamma Distribution

| | |
|---|---|
| Gamma ROS Statistics using Extrapolated Data | |
| Minimum | N/A |
| Maximum | N/A |
| Mean | N/A |
| Median | N/A |
| SD | N/A |
| k star | N/A |
| Theta star | N/A |
| Nu star | N/A |
| AppChi2 | N/A |
| 95% Gamma Approximate UCL (Use when n >= 40) | N/A |
| 95% Adjusted Gamma UCL (Use when n < 40) | N/A |

Note: DL/2 is not a recommended method.

### Data Distribution Test with Detected Values Only

Data appear Normal at 5% Significance Level

### Nonparametric Statistics

| | |
|---|---|
| Kaplan-Meier (KM) Method | |
| Mean | 0.0118 |
| SD | 0.00367 |
| SE of Mean | 0.00184 |
| 95% KM (t) UCL | 0.0155 |
| 95% KM (z) UCL | 0.0149 |
| 95% KM (jackknife) UCL | N/A |
| 95% KM (bootstrap t) UCL | N/A |
| 95% KM (BCA) UCL | N/A |
| 95% KM (Percentile Bootstrap) UCL | N/A |
| 95% KM (Chebyshev) UCL | 0.0198 |
| 97.5% KM (Chebyshev) UCL | 0.0233 |
| 99% KM (Chebyshev) UCL | 0.0301 |

### Potential UCLs to Use

| | |
|---|---|
| 95% KM (t) UCL | 0.0155 |
| 95% KM (Percentile Bootstrap) UCL | N/A |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Dissolved Chromium (mg/l) (elliot-2)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 0 |
| Number of Distinct Detected Data | 0 | Number of Non-Detect Data | 6 |
| | | Percent Non-Detects | 100.00% |

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (elliot-2) was not processed!

Dissolved Chromium (mg/l) (encomio-2)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 5 |
| | | Percent Non-Detects | 83.33% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (encomio-2) was not processed!

Dissolved Chromium (mg/l) (gw-1)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 16 | Number of Detected Data | 3 |
| Number of Distinct Detected Data | 3 | Number of Non-Detect Data | 13 |
| Number of Missing Values | 1 | Percent Non-Detects | 81.25% |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum Detected | 0.012 | Minimum Detected | -4.423 |
| Maximum Detected | 0.014 | Maximum Detected | -4.269 |
| Mean of Detected | 0.013 | Mean of Detected | -4.345 |
| SD of Detected | 0.001 | SD of Detected | 0.0771 |
| Minimum Non-Detect | 0.01 | Minimum Non-Detect | -4.605 |
| Maximum Non-Detect | 0.01 | Maximum Non-Detect | -4.605 |

Warning: There are only 3 Distinct Detected Values in this data set
The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

## UCL Statistics

### Normal Distribution Test with Detected Values Only

| | |
|---|---|
| Shapiro Wilk Test Statistic | 1 |
| 5% Shapiro Wilk Critical Value | 0.767 |

Data appear Normal at 5% Significance Level

### Assuming Normal Distribution

| | |
|---|---|
| DL/2 Substitution Method | |
| Mean | 0.0065 |
| SD | 0.00325 |
| 95% DL/2 (t) UCL | 0.00792 |
| | |
| Maximum Likelihood Estimate(MLE) Method | |
| Mean | 0.00726 |
| SD | 0.00423 |
| 95% MLE (t) UCL | 0.00912 |
| 95% MLE (Tiku) UCL | 0.0115 |

### Lognormal Distribution Test with Detected Values Only

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.999 |
| 5% Shapiro Wilk Critical Value | 0.767 |

Data appear Lognormal at 5% Significance Level

### Assuming Lognormal Distribution

| | |
|---|---|
| DL/2 Substitution Method | |
| Mean | -5.12 |
| SD | 0.385 |
| 95% H-Stat (DL/2) UCL | 0.00781 |
| | |
| Log ROS Method | |
| Mean in Log Scale | -4.686 |
| SD in Log Scale | 0.231 |
| Mean in Original Scale | 0.00946 |
| SD in Original Scale | 0.00222 |
| 95% t UCL | 0.0104 |
| 95% Percentile Bootstrap UCL | 0.0103 |
| 95% BCA Bootstrap UCL | 0.0104 |
| 95% H UCL | 0.0106 |

### Gamma Distribution Test with Detected Values Only

| | |
|---|---|
| k star (bias corrected) | N/A |
| Theta Star | N/A |
| nu star | N/A |
| | |
| A-D Test Statistic | N/A |
| 5% A-D Critical Value | N/A |
| K-S Test Statistic | N/A |
| 5% K-S Critical Value | N/A |

Data not Gamma Distributed at 5% Significance Level

### Assuming Gamma Distribution

| | |
|---|---|
| Gamma ROS Statistics using Extrapolated Data | |
| Minimum | N/A |
| Maximum | N/A |
| Mean | N/A |
| Median | N/A |
| SD | N/A |
| k star | N/A |
| Theta star | N/A |
| Nu star | N/A |
| AppChi2 | N/A |
| 95% Gamma Approximate UCL (Use when n >= 40) | N/A |
| 95% Adjusted Gamma UCL (Use when n < 40) | N/A |

Note: DL/2 is not a recommended method.

### Data Distribution Test with Detected Values Only

Data appear Normal at 5% Significance Level

### Nonparametric Statistics

| | |
|---|---|
| Kaplan-Meier (KM) Method | |
| Mean | 0.0122 |
| SD | 0.00052663 |
| SE of Mean | 0.00016125 |
| 95% KM (t) UCL | 0.0125 |
| 95% KM (z) UCL | 0.0125 |
| 95% KM (jackknife) UCL | 0.0128 |
| 95% KM (bootstrap t) UCL | 0.0123 |
| 95% KM (BCA) UCL | 0.014 |
| 95% KM (Percentile Bootstrap) UCL | 0.014 |
| 95% KM (Chebyshev) UCL | 0.0129 |
| 97.5% KM (Chebyshev) UCL | 0.0132 |
| 99% KM (Chebyshev) UCL | 0.0138 |

### Potential UCLs to Use

| | |
|---|---|
| 95% KM (t) UCL | 0.0125 |
| 95% KM (Percentile Bootstrap) UCL | 0.014 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Dissolved Chromium (mg/l) (gw-15a)

## General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Observations | 16 | Number of Distinct Observations | 14 |

### Raw Statistics

| | |
|---|---|
| Minimum | 0.028 |
| Maximum | 0.172 |
| Mean | 0.0638 |
| Geometric Mean | 0.057 |
| Median | 0.054 |
| SD | 0.0365 |
| Std. Error of Mean | 0.00913 |
| Coefficient of Variation | 0.573 |
| Skewness | 2.14 |

### Log-transformed Statistics

| | |
|---|---|
| Minimum of Log Data | -3.576 |
| Maximum of Log Data | -1.76 |
| Mean of log Data | -2.865 |
| SD of log Data | 0.461 |

## Relevant UCL Statistics

### Normal Distribution Test

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.758 |
| Shapiro Wilk Critical Value | 0.887 |

Data not Normal at 5% Significance Level

### Lognormal Distribution Test

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.936 |
| Shapiro Wilk Critical Value | 0.887 |

Data appear Lognormal at 5% Significance Level

### Assuming Normal Distribution

| | |
|---|---|
| 95% Student's-t UCL | 0.0798 |

**95% UCLs (Adjusted for Skewness)**

| | |
|---|---|
| 95% Adjusted-CLT UCL (Chen-1995) | 0.084 |
| 95% Modified-t UCL (Johnson-1978) | 0.0806 |

### Assuming Lognormal Distribution

| | |
|---|---|
| 95% H-UCL | 0.0805 |
| 95% Chebyshev (MVUE) UCL | 0.0953 |
| 97.5% Chebyshev (MVUE) UCL | 0.109 |
| 99% Chebyshev (MVUE) UCL | 0.137 |

### Gamma Distribution Test

| | |
|---|---|
| k star (bias corrected) | 3.782 |
| Theta Star | 0.0169 |
| MLE of Mean | 0.0638 |
| MLE of Standard Deviation | 0.0328 |
| nu star | 121 |
| Approximate Chi Square Value (.05) | 96.61 |
| Adjusted Level of Significance | 0.0335 |
| Adjusted Chi Square Value | 94.13 |
| Anderson-Darling Test Statistic | 0.695 |
| Anderson-Darling 5% Critical Value | 0.742 |
| Kolmogorov-Smirnov Test Statistic | 0.196 |
| Kolmogorov-Smirnov 5% Critical Value | 0.216 |

Data appear Gamma Distributed at 5% Significance Level

### Data Distribution

Data appear Gamma Distributed at 5% Significance Level

### Nonparametric Statistics

| | |
|---|---|
| 95% CLT UCL | 0.0788 |
| 95% Jackknife UCL | 0.0798 |
| 95% Standard Bootstrap UCL | 0.0783 |
| 95% Bootstrap-t UCL | 0.0993 |
| 95% Hall's Bootstrap UCL | 0.165 |
| 95% Percentile Bootstrap UCL | 0.0798 |
| 95% BCA Bootstrap UCL | 0.0862 |
| 95% Chebyshev(Mean, Sd) UCL | 0.104 |
| 97.5% Chebyshev(Mean, Sd) UCL | 0.121 |
| 99% Chebyshev(Mean, Sd) UCL | 0.155 |

### Assuming Gamma Distribution

| | |
|---|---|
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.0799 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.082 |

**Potential UCL to Use**

Use 95% Approximate Gamma UCL 0.0799

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Dissolved Chromium (mg/l) (gw-15b)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 16 | Number of Detected Data | 12 |
| Number of Distinct Detected Data | 9 | Number of Non-Detect Data | 4 |
| | | Percent Non-Detects | 25.00% |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum Detected | 0.01 | Minimum Detected | -4.605 |
| Maximum Detected | 0.11 | Maximum Detected | -2.207 |
| Mean of Detected | 0.0291 | Mean of Detected | -3.898 |
| SD of Detected | 0.032 | SD of Detected | 0.786 |
| Minimum Non-Detect | 0.01 | Minimum Non-Detect | -4.605 |
| Maximum Non-Detect | 0.01 | Maximum Non-Detect | -4.605 |

UCL Statistics

| Normal Distribution Test with Detected Values Only | | Lognormal Distribution Test with Detected Values Only | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.628 | Shapiro Wilk Test Statistic | 0.793 |
| 5% Shapiro Wilk Critical Value | 0.859 | 5% Shapiro Wilk Critical Value | 0.859 |
| Data not Normal at 5% Significance Level | | Data not Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| DL/2 Substitution Method | | DL/2 Substitution Method | |
| Mean | 0.0231 | Mean | -4.248 |
| SD | 0.0295 | SD | 0.92 |
| 95% DL/2 (t) UCL | 0.036 | 95% H-Stat (DL/2) UCL | 0.0403 |
| | | | |
| Maximum Likelihood Estimate(MLE) Method | | Log ROS Method | |
| Mean | 0.0183 | Mean in Log Scale | -4.352 |
| SD | 0.0339 | SD in Log Scale | 1.07 |
| 95% MLE (t) UCL | 0.0331 | Mean in Original Scale | 0.0227 |
| 95% MLE (Tiku) UCL | 0.0332 | SD in Original Scale | 0.0297 |
| | | 95% t UCL | 0.0357 |
| | | 95% Percentile Bootstrap UCL | 0.0352 |
| | | 95% BCA Bootstrap UCL | 0.0413 |
| | | 95% H UCL | 0.0497 |

**Gamma Distribution Test with Detected Values Only**

| | |
|---|---|
| k star (bias corrected) | 1.207 |
| Theta Star | 0.0241 |
| nu star | 28.96 |
| | |
| A-D Test Statistic | 1.491 |
| 5% A-D Critical Value | 0.745 |
| K-S Test Statistic | 0.745 |
| 5% K-S Critical Value | 0.249 |

Data not Gamma Distributed at 5% Significance Level

**Assuming Gamma Distribution**

Gamma ROS Statistics using Extrapolated Data

| | |
|---|---|
| Minimum | 0.000001 |
| Maximum | 0.11 |
| Mean | 0.0218 |
| Median | 0.0145 |
| SD | 0.0304 |
| k star | 0.264 |
| Theta star | 0.0825 |
| Nu star | 8.463 |
| AppChi2 | 3.006 |
| 95% Gamma Approximate UCL (Use when n >= 40) | 0.0614 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.0697 |

Note: DL/2 is not a recommended method.

**Data Distribution Test with Detected Values Only**

Data do not follow a Discernable Distribution (0.05)

**Nonparametric Statistics**

Kaplan-Meier (KM) Method

| | |
|---|---|
| Mean | 0.0243 |
| SD | 0.0278 |
| SE of Mean | 0.00726 |
| 95% KM (t) UCL | 0.037 |
| 95% KM (z) UCL | 0.0363 |
| 95% KM (jackknife) UCL | 0.0369 |
| 95% KM (bootstrap t) UCL | 0.0746 |
| 95% KM (BCA) UCL | 0.0389 |
| 95% KM (Percentile Bootstrap) UCL | 0.0368 |
| 95% KM (Chebyshev) UCL | 0.056 |
| 97.5% KM (Chebyshev) UCL | 0.0697 |
| 99% KM (Chebyshev) UCL | 0.0966 |

**Potential UCLs to Use**

| | |
|---|---|
| 95% KM (BCA) UCL | 0.0389 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

**Dissolved Chromium (mg/l) (gw-15c)**

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Observations | 16 | Number of Distinct Observations | 11 |

**Raw Statistics**

| | |
|---|---|
| Minimum | 0.02 |
| Maximum | 0.13 |
| Mean | 0.0385 |
| Geometric Mean | 0.0314 |
| Median | 0.027 |
| SD | 0.0341 |
| Std. Error of Mean | 0.00851 |
| Coefficient of Variation | 0.884 |
| Skewness | 2.455 |

**Log-transformed Statistics**

| | |
|---|---|
| Minimum of Log Data | -3.912 |
| Maximum of Log Data | -2.04 |
| Mean of log Data | -3.46 |
| SD of log Data | 0.56 |

**Relevant UCL Statistics**

**Normal Distribution Test**

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.516 |
| Shapiro Wilk Critical Value | 0.887 |

Data not Normal at 5% Significance Level

**Lognormal Distribution Test**

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.662 |
| Shapiro Wilk Critical Value | 0.887 |

Data not Lognormal at 5% Significance Level

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| 95% Student's-t UCL | 0.0534 | 95% H-UCL | 0.0499 |
| **95% UCLs (Adjusted for Skewness)** | | 95% Chebyshev (MVUE) UCL | 0.0594 |
| 95% Adjusted-CLT UCL (Chen-1995) | 0.0581 | 97.5% Chebyshev (MVUE) UCL | 0.0694 |
| 95% Modified-t UCL (Johnson-1978) | 0.0543 | 99% Chebyshev (MVUE) UCL | 0.089 |

| Gamma Distribution Test | | Data Distribution |
|---|---|---|
| k star (bias corrected) | 2.172 | Data do not follow a Discernable Distribution (0.05) |
| Theta Star | 0.0177 | |
| MLE of Mean | 0.0385 | |
| MLE of Standard Deviation | 0.0261 | |
| nu star | 69.51 | |
| Approximate Chi Square Value (.05) | 51.32 | **Nonparametric Statistics** |
| Adjusted Level of Significance | 0.0335 | 95% CLT UCL 0.0525 |
| Adjusted Chi Square Value | 49.54 | 95% Jackknife UCL 0.0534 |
| | | 95% Standard Bootstrap UCL 0.0521 |
| Anderson-Darling Test Statistic | 2.828 | 95% Bootstrap-t UCL 0.145 |
| Anderson-Darling 5% Critical Value | 0.747 | 95% Hall's Bootstrap UCL 0.152 |
| Kolmogorov-Smirnov Test Statistic | 0.388 | 95% Percentile Bootstrap UCL 0.0519 |
| Kolmogorov-Smirnov 5% Critical Value | 0.217 | 95% BCA Bootstrap UCL 0.0576 |
| Data not Gamma Distributed at 5% Significance Level | | 95% Chebyshev(Mean, Sd) UCL 0.0756 |
| | | 97.5% Chebyshev(Mean, Sd) UCL 0.0917 |
| **Assuming Gamma Distribution** | | 99% Chebyshev(Mean, Sd) UCL 0.123 |
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.0521 | |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.054 | |

| Potential UCL to Use | Use 95% Chebyshev (Mean, Sd) UCL 0.0756 |
|---|---|

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Dissolved Chromium (mg/l) (gw-24)

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Data | 16 | Number of Detected Data | 0 |
| Number of Distinct Detected Data | 0 | Number of Non-Detect Data | 16 |
| Number of Missing Values | 1 | Percent Non-Detects | 100.00% |

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (gw-24) was not processed!

Dissolved Chromium (mg/l) (gw-39d)

## General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Observations | 16 | Number of Distinct Observations | 11 |

### Raw Statistics

| | |
|---|---|
| Minimum | 0.048 |
| Maximum | 0.062 |
| Mean | 0.0552 |
| Geometric Mean | 0.055 |
| Median | 0.0565 |
| SD | 0.00483 |
| Std. Error of Mean | 0.00121 |
| Coefficient of Variation | 0.0876 |
| Skewness | -0.362 |

### Log-transformed Statistics

| | |
|---|---|
| Minimum of Log Data | -3.037 |
| Maximum of Log Data | -2.781 |
| Mean of log Data | -2.901 |
| SD of log Data | 0.0892 |

## Relevant UCL Statistics

### Normal Distribution Test

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.912 |
| Shapiro Wilk Critical Value | 0.887 |

Data appear Normal at 5% Significance Level

### Lognormal Distribution Test

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.901 |
| Shapiro Wilk Critical Value | 0.887 |

Data appear Lognormal at 5% Significance Level

### Assuming Normal Distribution

| | |
|---|---|
| 95% Student's-t UCL | 0.0573 |

**95% UCLs (Adjusted for Skewness)**

| | |
|---|---|
| 95% Adjusted-CLT UCL (Chen-1995) | 0.0571 |
| 95% Modified-t UCL (Johnson-1978) | 0.0573 |

### Assuming Lognormal Distribution

| | |
|---|---|
| 95% H-UCL | N/A |
| 95% Chebyshev (MVUE) UCL | 0.0606 |
| 97.5% Chebyshev (MVUE) UCL | 0.0629 |
| 99% Chebyshev (MVUE) UCL | 0.0675 |

### Gamma Distribution Test

| | |
|---|---|
| k star (bias corrected) | 110.4 |
| Theta Star | 0.00049994 |
| MLE of Mean | 0.0552 |
| MLE of Standard Deviation | 0.00525 |
| nu star | 3532 |
| Approximate Chi Square Value (.05) | 3395 |
| Adjusted Level of Significance | 0.0335 |
| Adjusted Chi Square Value | 3380 |
| Anderson-Darling Test Statistic | 0.594 |
| Anderson-Darling 5% Critical Value | 0.736 |
| Kolmogorov-Smirnov Test Statistic | 0.158 |
| Kolmogorov-Smirnov 5% Critical Value | 0.214 |

Data appear Gamma Distributed at 5% Significance Level

### Assuming Gamma Distribution

| | |
|---|---|
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.0574 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.0577 |

### Data Distribution

Data appear Normal at 5% Significance Level

### Nonparametric Statistics

| | |
|---|---|
| 95% CLT UCL | 0.0572 |
| 95% Jackknife UCL | 0.0573 |
| 95% Standard Bootstrap UCL | 0.0571 |
| 95% Bootstrap-t UCL | 0.0572 |
| 95% Hall's Bootstrap UCL | 0.057 |
| 95% Percentile Bootstrap UCL | 0.0569 |
| 95% BCA Bootstrap UCL | 0.057 |
| 95% Chebyshev(Mean, Sd) UCL | 0.0605 |
| 97.5% Chebyshev(Mean, Sd) UCL | 0.0627 |
| 99% Chebyshev(Mean, Sd) UCL | 0.0672 |

**Potential UCL to Use**

Use 95% Student's-t UCL 0.0573

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Note: For highly negative-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

Dissolved Chromium (mg/l) (gw-5)

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Observations | 11 | Number of Distinct Observations | 8 |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum | 0.026 | Minimum of Log Data | -3.65 |
| Maximum | 0.064 | Maximum of Log Data | -2.749 |
| Mean | 0.036 | Mean of log Data | -3.369 |
| Geometric Mean | 0.0344 | SD of log Data | 0.3 |
| Median | 0.032 | | |
| SD | 0.0126 | | |
| Std. Error of Mean | 0.00379 | | |
| Coefficient of Variation | 0.349 | | |
| Skewness | 1.646 | | |

**Relevant UCL Statistics**

| Normal Distribution Test | | Lognormal Distribution Test | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.761 | Shapiro Wilk Test Statistic | 0.831 |
| Shapiro Wilk Critical Value | 0.85 | Shapiro Wilk Critical Value | 0.85 |
| Data not Normal at 5% Significance Level | | Data not Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| 95% Student's-t UCL | 0.0429 | 95% H-UCL | 0.0433 |
| **95% UCLs (Adjusted for Skewness)** | | 95% Chebyshev (MVUE) UCL | 0.0501 |
| 95% Adjusted-CLT UCL (Chen-1995) | 0.0442 | 97.5% Chebyshev (MVUE) UCL | 0.0562 |
| 95% Modified-t UCL (Johnson-1978) | 0.0432 | 99% Chebyshev (MVUE) UCL | 0.0683 |

| Gamma Distribution Test | | Data Distribution |
|---|---|---|
| k star (bias corrected) | 8.234 | Data do not follow a Discernable Distribution (0.05) |
| Theta Star | 0.00437 | |
| MLE of Mean | 0.036 | |
| MLE of Standard Deviation | 0.0125 | |
| nu star | 181.2 | |
| Approximate Chi Square Value (.05) | 151 | **Nonparametric Statistics** |
| Adjusted Level of Significance | 0.0278 | 95% CLT UCL 0.0422 |
| Adjusted Chi Square Value | 146.5 | 95% Jackknife UCL 0.0429 |
| | | 95% Standard Bootstrap UCL 0.042 |
| Anderson-Darling Test Statistic | 0.92 | 95% Bootstrap-t UCL 0.0545 |
| Anderson-Darling 5% Critical Value | 0.729 | 95% Hall's Bootstrap UCL 0.0793 |
| Kolmogorov-Smirnov Test Statistic | 0.263 | 95% Percentile Bootstrap UCL 0.0425 |
| Kolmogorov-Smirnov 5% Critical Value | 0.255 | 95% BCA Bootstrap UCL 0.0436 |
| Data not Gamma Distributed at 5% Significance Level | | 95% Chebyshev(Mean, Sd) UCL 0.0525 |
| | | 97.5% Chebyshev(Mean, Sd) UCL 0.0596 |
| **Assuming Gamma Distribution** | | 99% Chebyshev(Mean, Sd) UCL 0.0737 |
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.0432 | |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.0445 | |

| Potential UCL to Use | | Use 95% Student's-t UCL | 0.0429 |
|---|---|---|---|
| | | or 95% Modified-t UCL | 0.0432 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Dissolved Chromium (mg/l) (hollister-2)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 5 |
| | | Percent Non-Detects | 83.33% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (hollister-2) was not processed!

Dissolved Chromium (mg/l) (i-37)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Observations | 14 | Number of Distinct Observations | 11 |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum | 0.017 | Minimum of Log Data | -4.075 |
| Maximum | 0.09 | Maximum of Log Data | -2.408 |
| Mean | 0.0382 | Mean of log Data | -3.384 |
| Geometric Mean | 0.0339 | SD of log Data | 0.476 |
| Median | 0.032 | | |
| SD | 0.0224 | | |
| Std. Error of Mean | 0.00598 | | |
| Coefficient of Variation | 0.586 | | |
| Skewness | 1.775 | | |

Relevant UCL Statistics

| Normal Distribution Test | | Lognormal Distribution Test | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.725 | Shapiro Wilk Test Statistic | 0.87 |
| Shapiro Wilk Critical Value | 0.874 | Shapiro Wilk Critical Value | 0.874 |
| Data not Normal at 5% Significance Level | | Data not Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| 95% Student's-t UCL | 0.0488 | 95% H-UCL | 0.0495 |
| **95% UCLs (Adjusted for Skewness)** | | 95% Chebyshev (MVUE) UCL | 0.059 |
| 95% Adjusted-CLT UCL (Chen-1995) | 0.0511 | 97.5% Chebyshev (MVUE) UCL | 0.0683 |
| 95% Modified-t UCL (Johnson-1978) | 0.0493 | 99% Chebyshev (MVUE) UCL | 0.0865 |

| Gamma Distribution Test | |
|---|---|
| k star (bias corrected) | 3.452 |
| Theta Star | 0.0111 |
| MLE of Mean | 0.0382 |
| MLE of Standard Deviation | 0.0206 |
| nu star | 96.66 |
| Approximate Chi Square Value (.05) | 74.99 |
| Adjusted Level of Significance | 0.0312 |
| Adjusted Chi Square Value | 72.46 |
| Anderson-Darling Test Statistic | 1.143 |
| Anderson-Darling 5% Critical Value | 0.739 |
| Kolmogorov-Smirnov Test Statistic | 0.316 |
| Kolmogorov-Smirnov 5% Critical Value | 0.23 |

Data not Gamma Distributed at 5% Significance Level

| Assuming Gamma Distribution | |
|---|---|
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.0493 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.051 |

Data Distribution

Data do not follow a Discernable Distribution (0.05)

| Nonparametric Statistics | |
|---|---|
| 95% CLT UCL | 0.0481 |
| 95% Jackknife UCL | 0.0488 |
| 95% Standard Bootstrap UCL | 0.0477 |
| 95% Bootstrap-t UCL | 0.0605 |
| 95% Hall's Bootstrap UCL | 0.0955 |
| 95% Percentile Bootstrap UCL | 0.0485 |
| 95% BCA Bootstrap UCL | 0.0507 |
| 95% Chebyshev(Mean, Sd) UCL | 0.0643 |
| 97.5% Chebyshev(Mean, Sd) UCL | 0.0756 |
| 99% Chebyshev(Mean, Sd) UCL | 0.0977 |

| Potential UCL to Use | |
|---|---|
| Use 95% Student's-t UCL | 0.0488 |
| or 95% Modified-t UCL | 0.0493 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Dissolved Chromium (mg/l) (segars-6)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 2 |
| Number of Distinct Detected Data | 2 | Number of Non-Detect Data | 4 |
| | | Percent Non-Detects | 66.67% |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum Detected | 0.012 | Minimum Detected | -4.423 |
| Maximum Detected | 0.036 | Maximum Detected | -3.324 |
| Mean of Detected | 0.024 | Mean of Detected | -3.874 |
| SD of Detected | 0.017 | SD of Detected | 0.777 |
| Minimum Non-Detect | 0.01 | Minimum Non-Detect | -4.605 |
| Maximum Non-Detect | 0.01 | Maximum Non-Detect | -4.605 |

Warning: Data set has only 2 Distinct Detected Values.
This may not be adequate enough to compute meaningful and reliable test statistics and estimates.
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

Unless Data Quality Objectives (DQOs) have been met, it is suggested to collect additional observations.

The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

## UCL Statistics

**Normal Distribution Test with Detected Values Only**

| | |
|---|---|
| Shapiro Wilk Test Statistic | N/A |
| 5% Shapiro Wilk Critical Value | N/A |

Data not Normal at 5% Significance Level

**Assuming Normal Distribution**

| | |
|---|---|
| DL/2 Substitution Method | |
| Mean | 0.0113 |
| SD | 0.0124 |
| 95% DL/2 (t) UCL | 0.0215 |
| | |
| Maximum Likelihood Estimate(MLE) Method | N/A |

**MLE method failed to converge properly**

**Lognormal Distribution Test with Detected Values Only**

| | |
|---|---|
| Shapiro Wilk Test Statistic | N/A |
| 5% Shapiro Wilk Critical Value | N/A |

Data not Lognormal at 5% Significance Level

**Assuming Lognormal Distribution**

| | |
|---|---|
| DL/2 Substitution Method | |
| Mean | -4.823 |
| SD | 0.814 |
| 95% H-Stat (DL/2) UCL | 0.0403 |
| | |
| Log ROS Method | |
| Mean in Log Scale | N/A |
| SD in Log Scale | N/A |
| Mean in Original Scale | N/A |
| SD in Original Scale | N/A |
| 95% t UCL | N/A |
| 95% Percentile Bootstrap UCL | N/A |
| 95% BCA Bootstrap UCL | N/A |
| 95% H-UCL | N/A |

**Gamma Distribution Test with Detected Values Only**

| | |
|---|---|
| k star (bias corrected) | N/A |
| Theta Star | N/A |
| nu star | N/A |
| | |
| A-D Test Statistic | N/A |
| 5% A-D Critical Value | N/A |
| K-S Test Statistic | N/A |
| 5% K-S Critical Value | N/A |

Data not Gamma Distributed at 5% Significance Level

**Assuming Gamma Distribution**

| | |
|---|---|
| Gamma ROS Statistics using Extrapolated Data | |
| Minimum | N/A |
| Maximum | N/A |
| Mean | N/A |
| Median | N/A |
| SD | N/A |
| k star | N/A |
| Theta star | N/A |
| Nu star | N/A |
| AppChi2 | N/A |
| 95% Gamma Approximate UCL (Use when n >= 40) | N/A |
| 95% Adjusted Gamma UCL (Use when n < 40) | N/A |

Note: DL/2 is not a recommended method.

**Data Distribution Test with Detected Values Only**

Data do not follow a Discernable Distribution (0.05)

**Nonparametric Statistics**

| | |
|---|---|
| Kaplan-Meier (KM) Method | |
| Mean | 0.016 |
| SD | 0.00894 |
| SE of Mean | 0.00516 |
| 95% KM (t) UCL | 0.0264 |
| 95% KM (z) UCL | 0.0245 |
| 95% KM (jackknife) UCL | N/A |
| 95% KM (bootstrap t) UCL | N/A |
| 95% KM (BCA) UCL | N/A |
| 95% KM (Percentile Bootstrap) UCL | N/A |
| 95% KM (Chebyshev) UCL | 0.0385 |
| 97.5% KM (Chebyshev) UCL | 0.0482 |
| 99% KM (Chebyshev) UCL | 0.0674 |

**Potential UCLs to Use**

| | |
|---|---|
| 95% KM (t) UCL | 0.0264 |
| 95% KM (% Bootstrap) UCL | N/A |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Dissolved Chromium (mg/l) (segars-7)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 5 |
| | | Percent Non-Detects | 83.33% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (segars-7) was not processed!

Dissolved Chromium (mg/l) (segars-8)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 5 |
| | | Percent Non-Detects | 83.33% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (segars-8) was not processed!

Dissolved Chromium (mg/l) (segars-9)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 5 |
| | | Percent Non-Detects | 83.33% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (segars-9) was not processed!

Dissolved Chromium (mg/l) (vwp-4)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 0 |
| Number of Distinct Detected Data | 0 | Number of Non-Detect Data | 6 |
| | | Percent Non-Detects | 100.00% |

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Dissolved Chromium (mg/l) (vwp-4) was not processed!

Arsenic (mg/l) (atkinson-1)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Observations | 5 | Number of Distinct Observations | 2 |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum | 0.006 | Minimum of Log Data | -5.116 |
| Maximum | 0.007 | Maximum of Log Data | -4.962 |
| Mean | 0.0064 | Mean of log Data | -5.054 |
| Geometric Mean | 0.00638 | SD of log Data | 0.0844 |
| Median | 0.006 | | |
| SD | 0.00054772 | | |
| Std. Error of Mean | 0.00024495 | | |
| Coefficient of Variation | 0.0856 | | |
| Skewness | 0.609 | | |

Warning: There are only 2 Distinct Values in this data

There are insufficient Distinct Values to perform some GOF tests and bootstrap methods.

Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values to compute bootstrap methods.

However, results obtained using 4 to 9 distinct values may not be reliable.

It is recommended to have 10-15 or more observations for accurate and meaningful bootstrap results.

Warning: A sample size of 'n' = 5 may not adequate enough to compute meaningful and reliable test statistics and estimates!

It is suggested to collect at least 8 to 10 observations using these statistical methods!

If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.

Relevant UCL Statistics

| Normal Distribution Test | | Lognormal Distribution Test | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.684 | Shapiro Wilk Test Statistic | 0.684 |
| Shapiro Wilk Critical Value | 0.762 | Shapiro Wilk Critical Value | 0.762 |
| Data not Normal at 5% Significance Level | | Data not Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| 95% Student's-t UCL | 0.00692 | 95% H-UCL | N/A |
| **95% UCLs (Adjusted for Skewness)** | | 95% Chebyshev (MVUE) UCL | 0.00745 |
| 95% Adjusted-CLT UCL (Chen-1995) | 0.00687 | 97.5% Chebyshev (MVUE) UCL | 0.00791 |
| 95% Modified-t UCL (Johnson-1978) | 0.00693 | 99% Chebyshev (MVUE) UCL | 0.0088 |

| Gamma Distribution Test | |
|---|---|
| k star (bias corrected) | 69.69 |
| Theta Star | 0.00009184 |
| MLE of Mean | 0.0064 |
| MLE of Standard Deviation | 0.00076666 |
| nu star | 696.9 |
| Approximate Chi Square Value (.05) | 636.6 |
| Adjusted Level of Significance | 0.0086 |
| Adjusted Chi Square Value | 611.1 |
| Anderson-Darling Test Statistic | 0.946 |
| Anderson-Darling 5% Critical Value | 0.678 |
| Kolmogorov-Smirnov Test Statistic | 0.393 |
| Kolmogorov-Smirnov 5% Critical Value | 0.357 |

Data not Gamma Distributed at 5% Significance Level

| Assuming Gamma Distribution | |
|---|---|
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.00701 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.0073 |

**Data Distribution**

Data do not follow a Discernable Distribution (0.05)

| Nonparametric Statistics | |
|---|---|
| 95% CLT UCL | 0.0068 |
| 95% Jackknife UCL | N/A |
| 95% Standard Bootstrap UCL | N/A |
| 95% Bootstrap-t UCL | N/A |
| 95% Hall's Bootstrap UCL | N/A |
| 95% Percentile Bootstrap UCL | N/A |
| 95% BCA Bootstrap UCL | N/A |
| 95% Chebyshev(Mean, Sd) UCL | 0.00747 |
| 97.5% Chebyshev(Mean, Sd) UCL | 0.00793 |
| 99% Chebyshev(Mean, Sd) UCL | 0.00884 |

| Potential UCL to Use | |
|---|---|
| Use 95% Student's-t UCL | 0.00692 |
| or 95% Modified-t UCL | 0.00693 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Arsenic (mg/l) (cox-2)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 0 |
| Number of Distinct Detected Data | 0 | Number of Non-Detect Data | 6 |
| | | Percent Non-Detects | 100.00% |

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (cox-2) was not processed!

Arsenic (mg/l) (dixon-2)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 0 |
| Number of Distinct Detected Data | 0 | Number of Non-Detect Data | 6 |
| | | Percent Non-Detects | 100.00% |

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (dixon-2) was not processed!

Arsenic (mg/l) (elliot-2)

## General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Observations | 6 | Number of Distinct Observations | 2 |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum | 0.006 | Minimum of Log Data | -5.116 |
| Maximum | 0.007 | Maximum of Log Data | -4.962 |
| Mean | 0.0065 | Mean of log Data | -5.039 |
| Geometric Mean | 0.00648 | SD of log Data | 0.0844 |
| Median | 0.0065 | | |
| SD | 0.00054772 | | |
| Std. Error of Mean | 0.00022361 | | |
| Coefficient of Variation | 0.0843 | | |
| Skewness | 3.681E-15 | | |

Warning: There are only 2 Distinct Values in this data

There are insufficient Distinct Values to perform some GOF tests and bootstrap methods.

Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values to compute bootstrap methods.

However, results obtained using 4 to 9 distinct values may not be reliable.

It is recommended to have 10-15 or more observations for accurate and meaningful bootstrap results.

Warning: A sample size of 'n' = 6 may not adequate enough to compute meaningful and reliable test statistics and estimates!

It is suggested to collect at least 8 to 10 observations using these statistical methods!

If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.

## Relevant UCL Statistics

| Normal Distribution Test | | Lognormal Distribution Test | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.682 | Shapiro Wilk Test Statistic | 0.682 |
| Shapiro Wilk Critical Value | 0.788 | Shapiro Wilk Critical Value | 0.788 |
| Data not Normal at 5% Significance Level | | Data not Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| 95% Student's-t UCL | 0.00695 | 95% H-UCL | N/A |
| **95% UCLs (Adjusted for Skewness)** | | 95% Chebyshev (MVUE) UCL | 0.00748 |
| 95% Adjusted-CLT UCL (Chen-1995) | 0.00687 | 97.5% Chebyshev (MVUE) UCL | 0.0079 |
| 95% Modified-t UCL (Johnson-1978) | 0.00695 | 99% Chebyshev (MVUE) UCL | 0.00873 |

**Gamma Distribution Test**

| | |
|---|---|
| k star (bias corrected) | 84.44 |
| Theta Star | 7.6974E-05 |
| MLE of Mean | 0.0065 |
| MLE of Standard Deviation | 0.00070734 |
| nu star | 1013 |
| Approximate Chi Square Value (.05) | 940.4 |
| Adjusted Level of Significance | 0.0122 |
| Adjusted Chi Square Value | 914.8 |
| Anderson-Darling Test Statistic | 1.078 |
| Anderson-Darling 5% Critical Value | 0.696 |
| Kolmogorov-Smirnov Test Statistic | 0.341 |
| Kolmogorov-Smirnov 5% Critical Value | 0.332 |

Data not Gamma Distributed at 5% Significance Level

**Assuming Gamma Distribution**

| | |
|---|---|
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.007 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.0072 |

**Data Distribution**

Data do not follow a Discernable Distribution (0.05)

**Nonparametric Statistics**

| | |
|---|---|
| 95% CLT UCL | 0.00687 |
| 95% Jackknife UCL | N/A |
| 95% Standard Bootstrap UCL | N/A |
| 95% Bootstrap-t UCL | N/A |
| 95% Hall's Bootstrap UCL | N/A |
| 95% Percentile Bootstrap UCL | N/A |
| 95% BCA Bootstrap UCL | N/A |
| 95% Chebyshev(Mean, Sd) UCL | 0.00747 |
| 97.5% Chebyshev(Mean, Sd) UCL | 0.0079 |
| 99% Chebyshev(Mean, Sd) UCL | 0.00872 |

| | |
|---|---|
| Potential UCL to Use | Use 95% Student's-t UCL 0.00695 |
| | or 95% Modified-t UCL 0.00695 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Arsenic (mg/l) (encomio-2)

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Observations | 6 | Number of Distinct Observations | 3 |

**Raw Statistics**

| | |
|---|---|
| Minimum | 0.006 |
| Maximum | 0.008 |
| Mean | 0.00717 |
| Geometric Mean | 0.00713 |
| Median | 0.007 |
| SD | 0.00075277 |
| Std. Error of Mean | 0.00030732 |
| Coefficient of Variation | 0.105 |
| Skewness | -0.313 |

**Log-transformed Statistics**

| | |
|---|---|
| Minimum of Log Data | -5.116 |
| Maximum of Log Data | -4.828 |
| Mean of log Data | -4.943 |
| SD of log Data | 0.107 |

Warning: There are only 3 Distinct Values in this data
There are insufficient Distinct Values to perform some GOF tests and bootstrap methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values to compute bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10-15 or more observations for accurate and meaningful bootstrap results.

Warning: A sample size of 'n' = 6 may not adequate enough to compute meaningful and reliable test statistics and estimates!

It is suggested to collect at least 8 to 10 observations using these statistical methods!

If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.

### Relevant UCL Statistics

**Normal Distribution Test**

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.866 |
| Shapiro Wilk Critical Value | 0.788 |

Data appear Normal at 5% Significance Level

**Lognormal Distribution Test**

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.864 |
| Shapiro Wilk Critical Value | 0.788 |

Data appear Lognormal at 5% Significance Level

**Assuming Normal Distribution**

| | |
|---|---|
| 95% Student's-t UCL | 0.00779 |

**95% UCLs (Adjusted for Skewness)**

| | |
|---|---|
| 95% Adjusted-CLT UCL (Chen-1995) | 0.00763 |
| 95% Modified-t UCL (Johnson-1978) | 0.00778 |

**Assuming Lognormal Distribution**

| | |
|---|---|
| 95% H-UCL | 0.00788 |
| 95% Chebyshev (MVUE) UCL | 0.00853 |
| 97.5% Chebyshev (MVUE) UCL | 0.00912 |
| 99% Chebyshev (MVUE) UCL | 0.0103 |

**Gamma Distribution Test**

| | |
|---|---|
| k star (bias corrected) | 53.25 |
| Theta Star | 0.00013458 |
| MLE of Mean | 0.00717 |
| MLE of Standard Deviation | 0.00098208 |
| nu star | 639 |
| Approximate Chi Square Value (.05) | 581.4 |
| Adjusted Level of Significance | 0.0122 |
| Adjusted Chi Square Value | 561.3 |
| Anderson-Darling Test Statistic | 0.53 |
| Anderson-Darling 5% Critical Value | 0.696 |
| Kolmogorov-Smirnov Test Statistic | 0.25 |
| Kolmogorov-Smirnov 5% Critical Value | 0.332 |

Data appear Gamma Distributed at 5% Significance Level

**Assuming Gamma Distribution**

| | |
|---|---|
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.00788 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.00816 |

**Data Distribution**

Data appear Normal at 5% Significance Level

**Nonparametric Statistics**

| | |
|---|---|
| 95% CLT UCL | 0.00767 |
| 95% Jackknife UCL | 0.00779 |
| 95% Standard Bootstrap UCL | N/A |
| 95% Bootstrap-t UCL | N/A |
| 95% Hall's Bootstrap UCL | N/A |
| 95% Percentile Bootstrap UCL | N/A |
| 95% BCA Bootstrap UCL | N/A |
| 95% Chebyshev(Mean, Sd) UCL | 0.00851 |
| 97.5% Chebyshev(Mean, Sd) UCL | 0.00909 |
| 99% Chebyshev(Mean, Sd) UCL | 0.0102 |

| | |
|---|---|
| Potential UCL to Use | Use 95% Student's-t UCL 0.00779 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Note: For highly negative-skewed data, confidence limits
(e.g., Chen, Johnson, Lognormal, and Gamma) may not be
reliable. Chen's and Johnson's methods provide
adjustments for positvely skewed data sets.

**Arsenic (mg/l) (gw-1)**

### General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 17 | Number of Detected Data | 10 |
| Number of Distinct Detected Data | 10 | Number of Non-Detect Data | 7 |
| | | Percent Non-Detects | 41.18% |

| Raw Statistics | |
|---|---|
| Minimum Detected | 0.006 |
| Maximum Detected | 0.07 |
| Mean of Detected | 0.0356 |
| SD of Detected | 0.0245 |
| Minimum Non-Detect | 0.005 |
| Maximum Non-Detect | 0.005 |

| Log-transformed Statistics | |
|---|---|
| Minimum Detected | -5.116 |
| Maximum Detected | -2.659 |
| Mean of Detected | -3.622 |
| SD of Detected | 0.87 |
| Minimum Non-Detect | -5.298 |
| Maximum Non-Detect | -5.298 |

## UCL Statistics

| Normal Distribution Test with Detected Values Only | |
|---|---|
| Shapiro Wilk Test Statistic | 0.898 |
| 5% Shapiro Wilk Critical Value | 0.842 |

Data appear Normal at 5% Significance Level

| Lognormal Distribution Test with Detected Values Only | |
|---|---|
| Shapiro Wilk Test Statistic | 0.922 |
| 5% Shapiro Wilk Critical Value | 0.842 |

Data appear Lognormal at 5% Significance Level

| Assuming Normal Distribution | |
|---|---|
| DL/2 Substitution Method | |
| Mean | 0.022 |
| SD | 0.0249 |
| 95% DL/2 (t) UCL | 0.0325 |
| | |
| Maximum Likelihood Estimate(MLE) Method | |
| Mean | 0.0124 |
| SD | 0.0354 |
| 95% MLE (t) UCL | 0.0274 |
| 95% MLE (Tiku) UCL | 0.0295 |

| Assuming Lognormal Distribution | |
|---|---|
| DL/2 Substitution Method | |
| Mean | -4.598 |
| SD | 1.368 |
| 95% H-Stat (DL/2) UCL | 0.0782 |
| | |
| Log ROS Method | |
| Mean in Log Scale | -4.551 |
| SD in Log Scale | 1.38 |
| Mean in Original Scale | 0.0223 |
| SD in Original Scale | 0.0247 |
| 95% t UCL | 0.0328 |
| 95% Percentile Bootstrap UCL | 0.0322 |
| 95% BCA Bootstrap UCL | 0.0337 |
| 95% H UCL | 0.0847 |

| Gamma Distribution Test with Detected Values Only | |
|---|---|
| k star (bias corrected) | 1.392 |
| Theta Star | 0.0256 |
| nu star | 27.84 |
| | |
| A-D Test Statistic | 0.312 |
| 5% A-D Critical Value | 0.736 |
| K-S Test Statistic | 0.736 |
| 5% K-S Critical Value | 0.27 |

Data appear Gamma Distributed at 5% Significance Level

| Assuming Gamma Distribution | |
|---|---|
| Gamma ROS Statistics using Extrapolated Data | |
| Minimum | 0.000001 |
| Maximum | 0.07 |
| Mean | 0.0209 |
| Median | 0.009 |
| SD | 0.0258 |
| k star | 0.194 |
| Theta star | 0.108 |
| Nu star | 6.596 |
| AppChi2 | 1.952 |
| 95% Gamma Approximate UCL (Use when n >= 40) | 0.0708 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.0813 |

Note: DL/2 is not a recommended method.

| Data Distribution Test with Detected Values Only |
|---|
| Data appear Normal at 5% Significance Level |

| Nonparametric Statistics | |
|---|---|
| Kaplan-Meier (KM) Method | |
| Mean | 0.0234 |
| SD | 0.023 |
| SE of Mean | 0.00589 |
| 95% KM (t) UCL | 0.0337 |
| 95% KM (z) UCL | 0.0331 |
| 95% KM (jackknife) UCL | 0.0329 |
| 95% KM (bootstrap t) UCL | 0.0361 |
| 95% KM (BCA) UCL | 0.0358 |
| 95% KM (Percentile Bootstrap) UCL | 0.0343 |
| 95% KM (Chebyshev) UCL | 0.0491 |
| 97.5% KM (Chebyshev) UCL | 0.0602 |
| 99% KM (Chebyshev) UCL | 0.082 |

| Potential UCLs to Use | |
|---|---|
| 95% KM (t) UCL | 0.0337 |
| 95% KM (Percentile Bootstrap) UCL | 0.0343 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Arsenic (mg/l) (gw-15a)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 16 | Number of Detected Data | 6 |
| Number of Distinct Detected Data | 2 | Number of Non-Detect Data | 10 |
| | | Percent Non-Detects | 62.50% |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum Detected | 0.005 | Minimum Detected | -5.298 |
| Maximum Detected | 0.006 | Maximum Detected | -5.116 |
| Mean of Detected | 0.00533 | Mean of Detected | -5.238 |
| SD of Detected | 0.0005164 | SD of Detected | 0.0942 |
| Minimum Non-Detect | 0.005 | Minimum Non-Detect | -5.298 |
| Maximum Non-Detect | 0.005 | Maximum Non-Detect | -5.298 |

Warning: Data set has only 2 Distinct Detected Values.
This may not be adequate enough to compute meaningful and reliable test statistics and estimates.
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

Unless Data Quality Objectives (DQOs) have been met, it is suggested to collect additional observations.

The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

UCL Statistics

| Normal Distribution Test with Detected Values Only | | Lognormal Distribution Test with Detected Values Only | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.64 | Shapiro Wilk Test Statistic | 0.64 |
| 5% Shapiro Wilk Critical Value | 0.788 | 5% Shapiro Wilk Critical Value | 0.788 |
| Data not Normal at 5% Significance Level | | Data not Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| DL/2 Substitution Method | | DL/2 Substitution Method | |
| Mean | 0.00356 | Mean | -5.709 |
| SD | 0.00145 | SD | 0.381 |
| 95% DL/2 (t) UCL | 0.0042 | 95% H-Stat (DL/2) UCL | 0.00431 |
| | | | |
| Maximum Likelihood Estimate(MLE) Method | | Log ROS Method | |
| Mean | 0.00473 | Mean in Log Scale | -5.42 |
| SD | 0.00065019 | SD in Log Scale | 0.177 |
| 95% MLE (t) UCL | 0.00502 | Mean in Original Scale | 0.00449 |
| 95% MLE (Tiku) UCL | 0.00516 | SD in Original Scale | 0.00080622 |
| | | 95% t UCL | 0.00484 |
| | | 95% Percentile Bootstrap UCL | 0.0048 |
| | | 95% BCA Bootstrap UCL | 0.00483 |
| | | 95% H UCL | 0.00488 |

**Gamma Distribution Test with Detected Values Only**

| | |
|---|---|
| k star (bias corrected) | 66.6 |
| Theta Star | 8.0079E-05 |
| nu star | 799.2 |
| | |
| A-D Test Statistic | 1.239 |
| 5% A-D Critical Value | 0.696 |
| K-S Test Statistic | 0.696 |
| 5% K-S Critical Value | 0.332 |

Data not Gamma Distributed at 5% Significance Level

**Assuming Gamma Distribution**

| | |
|---|---|
| Gamma ROS Statistics using Extrapolated Data | |
| Minimum | 0.000001 |
| Maximum | 0.006 |
| Mean | 0.00337 |
| Median | 0.00369 |
| SD | 0.00199 |
| k star | 0.542 |
| Theta star | 0.00623 |
| Nu star | 17.33 |
| AppChi2 | 8.911 |
| 95% Gamma Approximate UCL (Use when n >= 40) | 0.00656 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.00711 |

Note: DL/2 is not a recommended method.

**Data Distribution Test with Detected Values Only**

Data do not follow a Discernable Distribution (0.05)

**Nonparametric Statistics**

| | |
|---|---|
| Kaplan-Meier (KM) Method | |
| Mean | 0.00513 |
| SD | 0.00033072 |
| SE of Mean | 9.0571E-05 |
| 95% KM (t) UCL | 0.00528 |
| 95% KM (z) UCL | 0.00527 |
| 95% KM (jackknife) UCL | N/A |
| 95% KM (bootstrap t) UCL | N/A |
| 95% KM (BCA) UCL | N/A |
| 95% KM (Percentile Bootstrap) UCL | N/A |
| 95% KM (Chebyshev) UCL | 0.00552 |
| 97.5% KM (Chebyshev) UCL | 0.00569 |
| 99% KM (Chebyshev) UCL | 0.00603 |

**Potential UCLs to Use**

| | |
|---|---|
| 95% KM (t) UCL | 0.00528 |
| 95% KM (% Bootstrap) UCL | N/A |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

**Arsenic (mg/l) (gw-15b)**

**General Statistics**

Number of Valid Observations 16

Number of Distinct Observations 4

**Raw Statistics**

| | |
|---|---|
| Minimum | 0.005 |
| Maximum | 0.008 |
| Mean | 0.00663 |
| Geometric Mean | 0.00658 |
| Median | 0.007 |
| SD | 0.00080623 |
| Std. Error of Mean | 0.00020156 |
| Coefficient of Variation | 0.122 |
| Skewness | -0.0273 |

**Log-transformed Statistics**

| | |
|---|---|
| Minimum of Log Data | -5.298 |
| Maximum of Log Data | -4.828 |
| Mean of log Data | -5.024 |
| SD of log Data | 0.124 |

Warning: There are only 4 Distinct Values in this data
There are insufficient Distinct Values to perform some GOF tests and bootstrap methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values to compute bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10-15 or more observations for accurate and meaningful bootstrap results.

### Relevant UCL Statistics

**Normal Distribution Test**

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.878 |
| Shapiro Wilk Critical Value | 0.887 |

Data not Normal at 5% Significance Level

**Lognormal Distribution Test**

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.874 |
| Shapiro Wilk Critical Value | 0.887 |

Data not Lognormal at 5% Significance Level

**Assuming Normal Distribution**

| | |
|---|---|
| 95% Student's-t UCL | 0.00698 |

**95% UCLs (Adjusted for Skewness)**

| | |
|---|---|
| 95% Adjusted-CLT UCL (Chen-1995) | 0.00696 |
| 95% Modified-t UCL (Johnson-1978) | 0.00698 |

**Assuming Lognormal Distribution**

| | |
|---|---|
| 95% H-UCL | 0.00701 |
| 95% Chebyshev (MVUE) UCL | 0.00752 |
| 97.5% Chebyshev (MVUE) UCL | 0.00791 |
| 99% Chebyshev (MVUE) UCL | 0.00867 |

**Gamma Distribution Test**

| | |
|---|---|
| k star (bias corrected) | 57.52 |
| Theta Star | 0.00011518 |
| MLE of Mean | 0.00663 |
| MLE of Standard Deviation | 0.00087354 |
| nu star | 1841 |
| Approximate Chi Square Value (.05) | 1742 |
| Adjusted Level of Significance | 0.0335 |
| Adjusted Chi Square Value | 1731 |
| Anderson-Darling Test Statistic | 1.079 |
| Anderson-Darling 5% Critical Value | 0.736 |
| Kolmogorov-Smirnov Test Statistic | 0.256 |
| Kolmogorov-Smirnov 5% Critical Value | 0.214 |

Data not Gamma Distributed at 5% Significance Level

**Assuming Gamma Distribution**

| | |
|---|---|
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.007 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.00704 |

**Data Distribution**

Data do not follow a Discernable Distribution (0.05)

**Nonparametric Statistics**

| | |
|---|---|
| 95% CLT UCL | 0.00696 |
| 95% Jackknife UCL | 0.00698 |
| 95% Standard Bootstrap UCL | 0.00694 |
| 95% Bootstrap-t UCL | 0.00698 |
| 95% Hall's Bootstrap UCL | 0.00697 |
| 95% Percentile Bootstrap UCL | 0.00694 |
| 95% BCA Bootstrap UCL | 0.00688 |
| 95% Chebyshev(Mean, Sd) UCL | 0.0075 |
| 97.5% Chebyshev(Mean, Sd) UCL | 0.00788 |
| 99% Chebyshev(Mean, Sd) UCL | 0.00863 |

**Potential UCL to Use**

| | |
|---|---|
| Use 95% Student's-t UCL | 0.00698 |
| or 95% Modified-t UCL | 0.00698 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Note: For highly negative-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.

**Arsenic (mg/l) (gw-15c)**

### General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 16 | Number of Detected Data | 0 |
| Number of Distinct Detected Data | 0 | Number of Non-Detect Data | 16 |
| | | Percent Non-Detects | 100.00% |

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs! Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit! The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (gw-15c) was not processed!

Arsenic (mg/l) (gw-24)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 17 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 16 |
| | | Percent Non-Detects | 94.12% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (gw-24) was not processed!

Arsenic (mg/l) (gw-39d)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Observations | 16 | Number of Distinct Observations | 6 |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum | 0.014 | Minimum of Log Data | -4.269 |
| Maximum | 0.02 | Maximum of Log Data | -3.912 |
| Mean | 0.0174 | Mean of log Data | -4.053 |
| Geometric Mean | 0.0174 | SD of log Data | 0.0863 |
| Median | 0.018 | | |
| SD | 0.00146 | | |
| Std. Error of Mean | 0.00036479 | | |
| Coefficient of Variation | 0.0837 | | |
| Skewness | -0.595 | | |

Relevant UCL Statistics

| Normal Distribution Test | | Lognormal Distribution Test | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.937 | Shapiro Wilk Test Statistic | 0.919 |
| Shapiro Wilk Critical Value | 0.887 | Shapiro Wilk Critical Value | 0.887 |
| Data appear Normal at 5% Significance Level | | Data appear Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| 95% Student's-t UCL | 0.0181 | 95% H-UCL | N/A |
| **95% UCLs (Adjusted for Skewness)** | | 95% Chebyshev (MVUE) UCL | 0.0191 |
| 95% Adjusted-CLT UCL (Chen-1995) | 0.018 | 97.5% Chebyshev (MVUE) UCL | 0.0198 |
| 95% Modified-t UCL (Johnson-1978) | 0.0181 | 99% Chebyshev (MVUE) UCL | 0.0212 |

| Gamma Distribution Test | |
|---|---|
| k star (bias corrected) | 119.1 |
| Theta Star | 0.00014643 |
| MLE of Mean | 0.0174 |
| MLE of Standard Deviation | 0.0016 |
| nu star | 3811 |
| Approximate Chi Square Value (.05) | 3668 |
| Adjusted Level of Significance | 0.0335 |
| Adjusted Chi Square Value | 3652 |
| Anderson-Darling Test Statistic | 0.588 |
| Anderson-Darling 5% Critical Value | 0.736 |
| Kolmogorov-Smirnov Test Statistic | 0.223 |
| Kolmogorov-Smirnov 5% Critical Value | 0.214 |

Data follow Appr. Gamma Distribution at 5% Significance Level

**Data Distribution**

Data appear Normal at 5% Significance Level

**Nonparametric Statistics**

| | |
|---|---|
| 95% CLT UCL | 0.018 |
| 95% Jackknife UCL | 0.0181 |
| 95% Standard Bootstrap UCL | 0.018 |
| 95% Bootstrap-t UCL | 0.018 |
| 95% Hall's Bootstrap UCL | 0.018 |
| 95% Percentile Bootstrap UCL | 0.018 |
| 95% BCA Bootstrap UCL | 0.018 |
| 95% Chebyshev(Mean, Sd) UCL | 0.019 |
| 97.5% Chebyshev(Mean, Sd) UCL | 0.0197 |
| 99% Chebyshev(Mean, Sd) UCL | 0.0211 |

**Assuming Gamma Distribution**

| | |
|---|---|
| 95% Approximate Gamma UCL (Use when n >= 40) | 0.0181 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.0182 |

Potential UCL to Use

Use 95% Student's-t UCL 0.0181

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Note: For highly negative-skewed data, confidence limits
(e.g., Chen, Johnson, Lognormal, and Gamma) may not be
reliable. Chen's and Johnson's methods provide
adjustments for positvely skewed data sets.

**Arsenic (mg/l) (gw-5)**

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Data | 11 | Number of Detected Data | 0 |
| Number of Distinct Detected Data | 0 | Number of Non-Detect Data | 11 |
| | | Percent Non-Detects | 100.00% |

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (gw-5) was not processed!

**Arsenic (mg/l) (hollister-2)**

**General Statistics**

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 5 |
| | | Percent Non-Detects | 83.33% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (hollister-2) was not processed!

Arsenic (mg/l) (i-37)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 14 | Number of Detected Data | 0 |
| Number of Distinct Detected Data | 0 | Number of Non-Detect Data | 14 |
| | | Percent Non-Detects | 100.00% |

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (i-37) was not processed!

Arsenic (mg/l) (segars-6)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 1 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 5 |
| | | Percent Non-Detects | 83.33% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (segars-6) was not processed!

Arsenic (mg/l) (segars-7)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 5 |
| Number of Distinct Detected Data | 2 | Number of Non-Detect Data | 1 |
| | | Percent Non-Detects | 16.67% |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum Detected | 0.005 | Minimum Detected | -5.298 |
| Maximum Detected | 0.006 | Maximum Detected | -5.116 |
| Mean of Detected | 0.0052 | Mean of Detected | -5.262 |
| SD of Detected | 0.00044721 | SD of Detected | 0.0815 |
| Minimum Non-Detect | 0.005 | Minimum Non-Detect | -5.298 |
| Maximum Non-Detect | 0.005 | Maximum Non-Detect | -5.298 |

Warning: Data set has only 2 Distinct Detected Values.
This may not be adequate enough to compute meaningful and reliable test statistics and estimates.
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

Unless Data Quality Objectives (DQOs) have been met, it is suggested to collect additional observations.

The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

## UCL Statistics

### Normal Distribution Test with Detected Values Only

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.552 |
| 5% Shapiro Wilk Critical Value | 0.762 |

Data not Normal at 5% Significance Level

### Assuming Normal Distribution

| | |
|---|---|
| DL/2 Substitution Method | |
| Mean | 0.00475 |
| SD | 0.00117 |
| 95% DL/2 (t) UCL | 0.00571 |
| | |
| Maximum Likelihood Estimate(MLE) Method | |
| Mean | 0.00512 |
| SD | 0.00042016 |
| 95% MLE (t) UCL | 0.00546 |
| 95% MLE (Tiku) UCL | 0.00545 |

### Lognormal Distribution Test with Detected Values Only

| | |
|---|---|
| Shapiro Wilk Test Statistic | 0.552 |
| 5% Shapiro Wilk Critical Value | 0.762 |

Data not Lognormal at 5% Significance Level

### Assuming Lognormal Distribution

| | |
|---|---|
| DL/2 Substitution Method | |
| Mean | -5.383 |
| SD | 0.307 |
| 95% H-Stat (DL/2) UCL | 0.00654 |
| | |
| Log ROS Method | |
| Mean in Log Scale | -5.289 |
| SD in Log Scale | 0.0983 |
| Mean in Original Scale | 0.00507 |
| SD in Original Scale | 0.0005133 |
| 95% t UCL | 0.00549 |
| 95% Percentile Bootstrap UCL | N/A |
| 95% BCA Bootstrap UCL | N/A |
| 95% H UCL | N/A |

### Gamma Distribution Test with Detected Values Only

| | |
|---|---|
| k star (bias corrected) | 72.76 |
| Theta Star | 0.00007147 |
| nu star | 727.6 |
| | |
| A-D Test Statistic | 1.332 |
| 5% A-D Critical Value | 0.678 |
| K-S Test Statistic | 0.678 |
| 5% K-S Critical Value | 0.357 |

Data not Gamma Distributed at 5% Significance Level

### Assuming Gamma Distribution

| | |
|---|---|
| Gamma ROS Statistics using Extrapolated Data | |
| Minimum | 0.00411 |
| Maximum | 0.006 |
| Mean | 0.00502 |
| Median | 0.005 |
| SD | 0.00059826 |
| k star | 42.28 |
| Theta star | 0.00011869 |
| Nu star | 507.4 |
| AppChi2 | 456.1 |
| 95% Gamma Approximate UCL (Use when n >= 40) | 0.00558 |
| 95% Adjusted Gamma UCL (Use when n < 40) | 0.00581 |

Note: DL/2 is not a recommended method.

### Data Distribution Test with Detected Values Only

Data do not follow a Discernable Distribution (0.05)

### Nonparametric Statistics

| | |
|---|---|
| Kaplan-Meier (KM) Method | |
| Mean | 0.00517 |
| SD | 0.00037268 |
| SE of Mean | 0.0001701 |
| 95% KM (t) UCL | 0.00551 |
| 95% KM (z) UCL | 0.00545 |
| 95% KM (jackknife) UCL | N/A |
| 95% KM (bootstrap t) UCL | N/A |
| 95% KM (BCA) UCL | N/A |
| 95% KM (Percentile Bootstrap) UCL | N/A |
| 95% KM (Chebyshev) UCL | 0.00591 |
| 97.5% KM (Chebyshev) UCL | 0.00623 |
| 99% KM (Chebyshev) UCL | 0.00686 |

### Potential UCLs to Use

| | |
|---|---|
| 95% KM (Chebyshev) UCL | 0.00591 |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Arsenic (mg/l) (segars-8)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 2 |
| Number of Distinct Detected Data | 1 | Number of Non-Detect Data | 4 |
| | | Percent Non-Detects | 66.67% |

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!
It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Arsenic (mg/l) (segars-8) was not processed!

Arsenic (mg/l) (segars-9)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 3 |
| Number of Distinct Detected Data | 2 | Number of Non-Detect Data | 3 |
| | | Percent Non-Detects | 50.00% |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum Detected | 0.005 | Minimum Detected | -5.298 |
| Maximum Detected | 0.006 | Maximum Detected | -5.116 |
| Mean of Detected | 0.00533 | Mean of Detected | -5.238 |
| SD of Detected | 0.00057735 | SD of Detected | 0.105 |
| Minimum Non-Detect | 0.005 | Minimum Non-Detect | -5.298 |
| Maximum Non-Detect | 0.005 | Maximum Non-Detect | -5.298 |

Warning: Data set has only 2 Distinct Detected Values.
This may not be adequate enough to compute meaningful and reliable test statistics and estimates.
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

Unless Data Quality Objectives (DQOs) have been met, it is suggested to collect additional observations.

The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

UCL Statistics

| Normal Distribution Test with Detected Values Only | | Lognormal Distribution Test with Detected Values Only | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.75 | Shapiro Wilk Test Statistic | 0.75 |
| 5% Shapiro Wilk Critical Value | 0.767 | 5% Shapiro Wilk Critical Value | 0.767 |
| Data not Normal at 5% Significance Level | | Data not Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | |
|---|---|
| DL/2 Substitution Method | |
| Mean | 0.00392 |
| SD | 0.00159 |
| 95% DL/2 (t) UCL | 0.00523 |
| | |
| Maximum Likelihood Estimate(MLE) Method | |
| Mean | 0.00491 |
| SD | 0.00060313 |
| 95% MLE (t) UCL | 0.0054 |
| 95% MLE (Tiku) UCL | 0.00553 |

| Assuming Lognormal Distribution | |
|---|---|
| DL/2 Substitution Method | |
| Mean | -5.615 |
| SD | 0.418 |
| 95% H-Stat (DL/2) UCL | 0.00629 |
| | |
| Log ROS Method | |
| Mean in Log Scale | -5.401 |
| SD in Log Scale | 0.2 |
| Mean in Original Scale | 0.00459 |
| SD in Original Scale | 0.0009216 |
| 95% t UCL | 0.00535 |
| 95% Percentile Bootstrap UCL | 0.00515 |
| 95% BCA Bootstrap UCL | 0.00515 |
| 95% H UCL | 0.00554 |

| Gamma Distribution Test with Detected Values Only | |
|---|---|
| k star (bias corrected) | N/A |
| Theta Star | N/A |
| nu star | N/A |
| | |
| A-D Test Statistic | N/A |
| 5% A-D Critical Value | N/A |
| K-S Test Statistic | N/A |
| 5% K-S Critical Value | N/A |
| Data not Gamma Distributed at 5% Significance Level | |
| | |
| Assuming Gamma Distribution | |
| Gamma ROS Statistics using Extrapolated Data | |
| Minimum | N/A |
| Maximum | N/A |
| Mean | N/A |
| Median | N/A |
| SD | N/A |
| k star | N/A |
| Theta star | N/A |
| Nu star | N/A |
| AppChi2 | N/A |
| 95% Gamma Approximate UCL (Use when n >= 40) | N/A |
| 95% Adjusted Gamma UCL (Use when n < 40) | N/A |

Note: DL/2 is not a recommended method.

| Data Distribution Test with Detected Values Only |
|---|
| Data do not follow a Discernable Distribution (0.05) |

| Nonparametric Statistics | |
|---|---|
| Kaplan-Meier (KM) Method | |
| Mean | 0.00517 |
| SD | 0.00037268 |
| SE of Mean | 0.00018634 |
| 95% KM (t) UCL | 0.00554 |
| 95% KM (z) UCL | 0.00547 |
| 95% KM (jackknife) UCL | N/A |
| 95% KM (bootstrap t) UCL | N/A |
| 95% KM (BCA) UCL | N/A |
| 95% KM (Percentile Bootstrap) UCL | N/A |
| 95% KM (Chebyshev) UCL | 0.00598 |
| 97.5% KM (Chebyshev) UCL | 0.00633 |
| 99% KM (Chebyshev) UCL | 0.00702 |
| | |
| Potential UCLs to Use | |
| 95% KM (t) UCL | 0.00554 |
| 95% KM (% Bootstrap) UCL | N/A |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Arsenic (mg/l) (vwp-4)

General Statistics

| | | | |
|---|---|---|---|
| Number of Valid Data | 6 | Number of Detected Data | 2 |
| Number of Distinct Detected Data | 2 | Number of Non-Detect Data | 4 |
| | | Percent Non-Detects | 66.67% |

| Raw Statistics | | Log-transformed Statistics | |
|---|---|---|---|
| Minimum Detected | 0.005 | Minimum Detected | -5.298 |
| Maximum Detected | 0.006 | Maximum Detected | -5.116 |
| Mean of Detected | 0.0055 | Mean of Detected | -5.207 |
| SD of Detected | 0.00070711 | SD of Detected | 0.129 |
| Minimum Non-Detect | 0.005 | Minimum Non-Detect | -5.298 |
| Maximum Non-Detect | 0.005 | Maximum Non-Detect | -5.298 |

Warning: Data set has only 2 Distinct Detected Values.
This may not be adequate enough to compute meaningful and reliable test statistics and estimates.
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

Unless Data Quality Objectives (DQOs) have been met, it is suggested to collect additional observations.

The number of detected data may not be adequate enough to perform GOF tests, bootstrap, and ROS methods.
Those methods will return a 'N/A' value on your output display!

It is necessary to have 4 or more Distinct Values for bootstrap methods.
However, results obtained using 4 to 9 distinct values may not be reliable.
It is recommended to have 10 to 15 or more observations for accurate and meaningful results and estimates.

## UCL Statistics

| Normal Distribution Test with Detected Values Only | | Lognormal Distribution Test with Detected Values Only | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | N/A | Shapiro Wilk Test Statistic | N/A |
| 5% Shapiro Wilk Critical Value | N/A | 5% Shapiro Wilk Critical Value | N/A |
| Data not Normal at 5% Significance Level | | Data not Lognormal at 5% Significance Level | |

| Assuming Normal Distribution | | Assuming Lognormal Distribution | |
|---|---|---|---|
| DL/2 Substitution Method | | DL/2 Substitution Method | |
| Mean | 0.0035 | Mean | -5.73 |
| SD | 0.00158 | SD | 0.409 |
| 95% DL/2 (t) UCL | 0.0048 | 95% H-Stat (DL/2) UCL | 0.00551 |
| | | | |
| Maximum Likelihood Estimate(MLE) Method | N/A | Log ROS Method | |
| MLE method failed to converge properly | | Mean in Log Scale | N/A |
| | | SD in Log Scale | N/A |
| | | Mean in Original Scale | N/A |
| | | SD in Original Scale | N/A |
| | | 95% t UCL | N/A |
| | | 95% Percentile Bootstrap UCL | N/A |
| | | 95% BCA Bootstrap UCL | N/A |
| | | 95% H-UCL | N/A |

**Gamma Distribution Test with Detected Values Only**

| | |
|---|---|
| k star (bias corrected) | N/A |
| Theta Star | N/A |
| nu star | N/A |
| | |
| A-D Test Statistic | N/A |
| 5% A-D Critical Value | N/A |
| K-S Test Statistic | N/A |
| 5% K-S Critical Value | N/A |

Data not Gamma Distributed at 5% Significance Level

**Assuming Gamma Distribution**

| | |
|---|---|
| Gamma ROS Statistics using Extrapolated Data | |
| Minimum | N/A |
| Maximum | N/A |
| Mean | N/A |
| Median | N/A |
| SD | N/A |
| k star | N/A |
| Theta star | N/A |
| Nu star | N/A |
| AppChi2 | N/A |
| 95% Gamma Approximate UCL (Use when n >= 40) | N/A |
| 95% Adjusted Gamma UCL (Use when n < 40) | N/A |

Note: DL/2 is not a recommended method.

**Data Distribution Test with Detected Values Only**

Data do not follow a Discernable Distribution (0.05)

**Nonparametric Statistics**

| | |
|---|---|
| Kaplan-Meier (KM) Method | |
| Mean | 0.00517 |
| SD | 0.00037268 |
| SE of Mean | 0.00021517 |
| 95% KM (t) UCL | 0.0056 |
| 95% KM (z) UCL | 0.00552 |
| 95% KM (jackknife) UCL | N/A |
| 95% KM (bootstrap t) UCL | N/A |
| 95% KM (BCA) UCL | N/A |
| 95% KM (Percentile Bootstrap) UCL | N/A |
| 95% KM (Chebyshev) UCL | 0.0061 |
| 97.5% KM (Chebyshev) UCL | 0.00651 |
| 99% KM (Chebyshev) UCL | 0.00731 |

**Potential UCLs to Use**

| | |
|---|---|
| 95% KM (t) UCL | 0.0056 |
| 95% KM (% Bootstrap) UCL | N/A |

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.