

APPENDIX Q

Revised Report Groundwater Recharge
Feasibility Assessment
Arbini Property APN 181-030-01
Mariposa Lakes Development Stockton, California
Appendix E

**REVISED REPORT
GROUNDWATER RECHARGE
FEASIBILITY ASSESSMENT
ARBINI PROPERTY APN 181-030-01
MARIPOSA LAKES DEVELOPMENT
STOCKTON, CALIFORNIA**

February 9, 2007

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**REVISED REPORT
GROUNDWATER RECHARGE FEASIBILITY ASSESSMENT
ARBINI PROPERTY APN 181-030-01
MARIPOSA LAKES DEVELOPMENT
STOCKTON, CALIFORNIA**

Kleinfelder Job No.: 63138.H02
February 9, 2007



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1 EXECUTIVE SUMMARY

PCCP Mariposa Lakes, LLC (Client) retained Kleinfelder to perform a groundwater recharge feasibility assessment of the Arbini property (APN 181-030-01). The purpose of this assessment was to assess the feasibility of recharging groundwater at the Arbini site, with the intention of recharging sufficient quantities of non-potable water to generate and maintain a groundwater reserve that would be available to support the irrigation demands of the Mariposa Lakes development (Development), as described in the Integrated Water Management Plan (IWMP) (Kleinfelder, September 29, 2006, "Integrated Water Management Plan, Mariposa Lakes, Stockton, California."). The objective of our feasibility assessment was to ascertain if continuous layers of low permeability soils were present, such that they would prevent or significantly reduce percolation rates of applied water, potentially creating a condition that would be prohibitive to recharge. We did not encounter such conditions in the locations we assessed.

Our opinion is that, at full-buildout and under stable, routine and managed artificial recharging operations, the Arbini site recharge operation would be capable of sufficiently meeting the non-potable water demand of 3,089 acre-feet per year, as described in the IWMP. Our conclusions and opinions are based upon data generated by assessing subsurface soil conditions in nine locations on the Arbini site, and groundwater elevations and quality at three locations on site. Additional work is being pursued to refine our assessment of subsurface conditions, estimates of overall percolation rates, and groundwater conditions.

If the recharging facilities are maintained, and an adequate groundwater reserve is sustained, non-potable water demands for the development can be met by limited pumping of the "banked" groundwater. It is anticipated that annually some groundwater from the immediate vicinity of the recharge site would be pumped to meet non-potable demands unmet by readily available surface water supplies. In addition, it is anticipated that during extended periods of unavailable surface water supplies (e.g., droughts), that surface water "banked" in the aquifer beneath the Arbini property could also be pumped to meet the non-potable water demands, as described in the IWMP, for the

Development. Our conceptual plan assumes that adequate supplies of non-potable water will be available for recharge.

On the basis of the results of this investigation, Kleinfelder concludes that artificial recharge of groundwater, using non-potable surface water, is feasible at the Arbini site. Additional work is being pursued to refine our assessment of the overall recharging performance. This additional work includes drilling and sampling additional soil borings, geotechnical testing, installing new monitoring wells, performing pumping tests to assess the receiving aquifer's hydraulic characteristics, and modeling of the facility to assess recharge performance and groundwater mounding.

Recharging operations must begin as soon as possible so that the accumulation of this recharged water can begin, to meet the anticipated future irrigation needs. Initially, At least 2 acre-feet of water should be applied for every acre-foot of recharge. Applying less water will reduce the recharge volume and potentially reduce the recharge rate. Assuming this two-to-one ratio, it will be necessary to infiltrate approximately 6,200 acre-feet of water per year to meet the Development's 3,089 acre-feet per year non-potable water demand

Applied water should be similar in chemistry to water used locally for irrigation, to avoid introducing anthropogenic chemicals to groundwater via the recharge operations. Water deliveries may vary in quality. For these reasons, the quality of water deliveries should be assessed before applying it to the site.

Following is a summary of our investigation procedures, findings and recommendations:

Kleinfelder drilled and sampled six soil borings, installed three monitoring wells on the inside perimeter of the site, and collected groundwater samples. The soil samples were submitted for physical testing to allow us to estimate permeabilities and infiltration rates at the six boring locations, and the groundwater samples were analyzed for drinking water standards.

Two of the three water samples (MW-10 and MW-12) had concentrations of iron above the drinking water standard of 50 mg/l. The source(s) of the detected concentrations of iron has not been assessed, and it could be naturally occurring. Nitrate as NO_3 was detected above the drinking water standard in samples from two of the monitoring wells.

Coliform bacteria, as undifferentiated species, were detected in samples from each of the three monitoring wells. Generally, the presence of coliform bacteria must be confirmed by a series of samples collected over a period of time. Neither the source(s) nor the species have been assessed. Some species are harmless, while others (e.g., fecal coliform, which comes from the gut of warm blooded animals) can pose potential health hazards. Coliform can be introduced to groundwater from a variety of sources, ranging from agricultural operations to septic systems. Coliform can also temporarily appear in groundwater sampled from newly-constructed monitoring wells, as a result of construction activities. For this reason, the new monitoring wells on the Arbini property should be disinfected before they are sampled again.

Groundwater was encountered beneath the site at an approximate depth of 90 feet below the ground surface. Based upon a single round of depth-to-water measurements in the on-site monitoring wells, groundwater appears to move in the north/northeast direction.

On the basis of Kleinfelder's Arbini site investigation and our hydrogeological assessment of the Development site, the groundwater depths, gradient and chemistry on both sites were similar at the times of our investigations.

Soils encountered in each of the borings drilled for this investigation consisted of interbedded silts, silty sands, sands, sandy silts, and minor clays. The lithologies and stratigraphy are typical of river and stream deposits, and as expected, are similar to those we encountered during our hydrogeological investigation of the Development site.

On the basis of our experience with this type of geologic environment, it is reasonable to assume that the soil layers beneath the site are interfingering and discontinuous. In support of that assumption, Kleinfelder did not observe apparently extensive soil layers that would be expected to make unimproved recharge infeasible.

When water is applied to the ground surface, it will infiltrate into the subsurface, and then percolate down to groundwater under the influence of gravity. The permeability and interbedded nature of individual soil layers, the lateral movement of percolating water, and the continuity of soil layers (along with several other factors, such as thickness of the wetted front and depth of applied water) all affect the overall rate (bulk percolation rate) for applied water to reach groundwater.

The permeabilities of the individual soil layers varied considerably, generally ranging from approximately $10E-3$ to $10E-7$, with a single outlier of $10E-8$. To obtain a general idea of the rates at which water might percolate through the soil columns, Kleinfelder estimated bulk permeabilities (for entire soil columns). Using these bulk permeability estimates, we arrived at bulk infiltration rates ranging from 0.037 to 0.305 feet per day. Adding a 30 percent factor of safety to account for factors that are more easily analyzed three-dimensionally, and for our analysis are considered unknowns, we estimated between approximately 409 to 3232 days for applied water to reach groundwater at depths of 96 and 92 feet, respectively. In our opinion, these rates are conservative based upon the existing data. Additional data will aid us in refining our assessments of these bulk percolation rates.

In nature (i.e., at the site), applied water will percolate downward from the surface, and when relatively fine-grained soil layers are encountered, it will move laterally across and through them. In sandy soils, this lateral movement can be as much as 10 times faster than the vertical movement. For this assessment, Kleinfelder estimated vertical permeabilities for soil columns in six locations, providing us with a two-dimensional concept of the site. Thus, the infiltration rates at the soil boring locations are likely greater than our estimates. With additional soil borings, we will be able to interpolate the stratigraphy among the soil boring locations. We can use this information to analyze lateral movement of groundwater, in addition to vertical movement, using a 3-dimensional computer model.

On the basis of our investigation to date, Kleinfelder concludes that groundwater replenishment on the Arbini property at the minimum application rates stated in the Integrated Water Management Plan is achievable. To refine the findings, which are the basis of our conclusion, Kleinfelder is proceeding with a 3-dimensional hydrologic model that will allow for a refined assessment of percolation rates and recharge performance.

In conclusion, it is our opinion that groundwater recharge sufficient to meet the irrigation demands for the Development, as described in the IWMP, is feasible at the Arbini site. Our conclusion is based upon the assumptions that the recharge facilities will be designed in a manner to maximize infiltration, that the facilities will be properly operated and maintained, and that adequate supplies of acceptable quality, non-potable water will be available for recharging.

2 INTRODUCTION

PCCP Mariposa Lakes, LLC (Client) retained Kleinfelder to perform a groundwater recharge feasibility assessment of the Arbin property (APN 181-030-01), located adjacent to the Mariposa Lakes development (Development) site.

The goal of this assessment was to report to Client the feasibility of using the Arbin site for groundwater recharge, with the intention of recharging sufficient quantities of non-potable surface water through the site to generate and maintain a reserve of groundwater for the Development. To that end, our assessment consisted of investigating six soil boring and three monitoring well locations for the presence of apparently laterally continuous clay layers that could potentially make recharge infeasible in the absence of engineered site improvements. Using lithologic, permeability and stratigraphic information, preliminary estimates of the times required for applied water to percolate to groundwater were developed.

If an adequate groundwater reserve is maintained, non-potable water demands (as estimated by Stantec and presented in the Integrated Water Management Plan [IWMP] {Kleinfelder, September 29, 2006}) for the Development can be met by limited pumping of the "banked" groundwater. It is anticipated that annually some groundwater from the immediate vicinity of the recharge site would be pumped to meet non-potable demands unmet by readily available surface water supplies. In addition, it is anticipated that during extended periods of unavailable surface water supplies (e.g., droughts), that surface water "banked" in the aquifer beneath the Arbin property could also be pumped to meet the non-potable water demands for the Development.

An additional objective of this assessment was to establish the baseline groundwater quality beneath the site.

The data describing the baseline condition will be used in support of the pending environmental impact report (EIR), along with facilitating Kleinfelder's assessment of the aquifer beneath the site as a receiving unit for potential groundwater recharge operations.

3 SITE SETTING

3.1. SITE LOCATION

The proposed Development is a 3,846-acre project located in San Joaquin County, east of State Route 99 and south of State Route 4 (Farmington Road) on the eastern boundary of the City of Stockton. The eastern boundary is Kaiser Road and the southern boundary is Mariposa Road. The Arbini property (APN 181-030-01) is located directly east of Kaiser Road and west of Jack Tone Road. The parcel encompasses approximately 320 acres. (Plate 1, Appendix A)

3.2. CURRENT USE AND SITE CHARACTERISTICS

The current Development site use is mostly agricultural with rural residences and some light commercial/industrial operations located near the western boundary. The Arbini property is entirely agricultural at this time. At least one water supply well is located on the Arbini property, centrally located near the northern boundary. North Littlejohns Creek is located generally south of the Arbini property and flows east to west, diagonally crossing the southeast corner. Duck Creek is located approximately 2.5 miles north of the property, running east to west across the northern portion of the Mariposa Lakes development area.

In general, the land use immediately surrounding the Arbini property is primarily agricultural, with a few farm-based residences. According to the Department of Water Resources well inventory, three wells are located within approximately one-quarter mile of the site; however, Kleinfelder has not confirmed the existence or statuses of these wells.

3.3. REGIONAL GEOLOGY AND HYDROGEOLOGY

The Arbini property is located in the Great Valley Geographic Province in Central California. The Great Valley is 400 miles long, 50 miles wide, and comprises approximately 20,000 square miles, and was formed by the filling of a large structural trough or downwarp of the underlying bedrock. The trough is situated between the Sierra Nevada mountain range on the east and the Coast and Cascade Ranges on the

west. The trough, which underlies the valley, is asymmetrical with the greatest depth of sediments along the eastern margin. The sediments that fill the trough originated as erosional debris from the adjacent mountains and foothills.

According to the regional geologic map of the area, sediments in the vicinity of the site are Quaternary Age Fan Deposits consisting of clay, silt, sand and gravel, derived from source rock from the Coast Ranges. Locally, the area is typified by meandering stream channel deposits, associated with the presence of both Duck Creek and North Littlejohns Creek. As such, inter-layered deposits of sand, silts and clays in discontinuous layers would be expected in the subsurface.

Records from the San Joaquin County Flood Control and Water Conservation District (SJFCWCD) show that the groundwater elevation in the immediate area of the Arbini site is approximately 40 to 50 feet below mean sea level (a depth to water of approximately 90 feet below the ground surface). These records also indicate that the groundwater flow direction is to the north/northeast.

4 FIELD ACTIVITIES

Kleinfelder's field investigation consisted of drilling, sampling and lithologically logging six soil borings on the interior of the Arbini site, installing three monitoring wells near its perimeter, and sampling and analyzing groundwater samples from these three wells.

4.1. SUBSURFACE ASSESSMENT

To obtain field data for this initial feasibility assessment, Kleinfelder drilled and sampled six soil borings at locations shown on Plate 2. The boring locations were selected to provide data from across the site; each boring was located centrally within an approximately 50-acre section of the 300-acre site. These data could be used to assess the presence of areally extensive and potentially continuous soil layer(s) that could be expected to make recharge infeasible. To avoid interfering with farming activities that were occurring at the time of our site investigation, the borings were placed along farming access roadways between the fields.

The six soil borings (SB-1 through SB-6) were drilled within the Arbini property boundary (APN 181-030-01) to the approximate total depth of 100 feet below ground surface (bgs) (Plate 2, Appendix A). Borings were drilled using a truck-mounted drilling rig equipped with 8-inch diameter, hollow-stem augers. Kleinfelder collected and lithologically logged soil samples at 5-foot intervals. Lithologies were classified using the Unified Soil Classification System. Soil samples were packaged for laboratory physical testing, as follows:

- Permeability by ASTM D5084 (falling head permeability)
- Grain Size Distribution by ASTM C136 (sieve analyses)

These soil samples were submitted under chain-of-custody control to Sierra Testing Laboratories of El Dorado Hills, California. Sierra Testing Laboratories is certified to perform the requested analyses per the ASTM standards.

4.2. MONITORING WELL INSTALLATION AND DEVELOPMENT

Kleinfelder installed three shallow groundwater-monitoring wells (MW-10, MW-11, and MW-12) within the Arbini property boundary, near the perimeter (Plate 2, Appendix A) to allow for groundwater sampling and water depth monitoring. The groundwater sample analytical results and the water depth data were used to establish the baseline shallow groundwater conditions before beginning recharge activities.

The locations of the monitoring wells were selected based upon recent site plans to assess and monitor the groundwater depths and gradient upgradient and down gradient from the site.

The soil borings for the monitoring wells were drilled with a truck-mounted drilling rig equipped with 8-inch hollow stem augers to a total depth of approximately 100 feet bgs. During advancement of the soil borings, Kleinfelder collected and lithologically logged soil samples were collected at 5-foot intervals. Samples collected from 10-foot intervals, beginning at the 10-foot depth were submitted for laboratory physical testing. The testing results were used for selecting well construction materials.

Equipment used in the drilling and well installation procedures was cleaned and/or decontaminated before being used.

Following completion of the drilling, a 2-inch diameter PVC well was installed in each of the borings. The wells were constructed with Schedule 40 PVC, a 15-foot long, 0.020-inch slotted screened section (approximately 10 feet below water and 5 feet above water) surrounded by clean sand filter pack (#2/16), a 3-foot thick bentonite transition seal above the filter pack, and grouted to the surface. The wells were finished with a locking pressure cap situated within a monument-style well vault.

Stantec Consulting, Inc. surveyed the top of each well so that depth to groundwater measurements in the wells could be converted to groundwater elevations used to assess groundwater gradient.

The monitoring wells were developed to remove fine silt from the well bores and to effectively increase the hydraulic radius of each monitoring well. Surging along the screened intervals of the monitoring wells was performed to draw the sediment from the

formation into the filter packs and wells, and to settle the sand filter packs. The monitoring wells were developed until the discharge ran relatively clear of fines, and turbidity, pH, temperature, and specific conductance were relatively stable.

The development purge water was discharged to the ground surface near each well. The monitoring wells were not disinfected following completion, to avoid biasing the bacteriological (i.e., coliform) analytical results.

4.3. GROUNDWATER MONITORING WELL SAMPLING AND ANALYSES

The goal of establishing the baseline groundwater quality parameters prior to beginning recharging operations is to facilitate assessment of changes that can potentially occur in response to recharging operations.

Before collecting groundwater samples, three to five well volumes were purged. During purging, water physical parameters (pH, temperature, and specific electrical conductance) were measured and the samples were collected when the parameters were stable (i.e., two consecutive measurements were within 10 percent of one another) and the purged water was relatively clear. Samples were collected in containers provided by the laboratory. As contaminants were not expected in the groundwater, the purged discharge water was distributed directly to the ground surface near each well such that it would not run back into the well.

After collection, the groundwater samples were labeled, logged on a chains-of-custody, and immediately stored in an iced cooler. Each of the groundwater samples collected for qualitative and quantitative analyses was submitted under chain-of-custody control to FGL Laboratories of Stockton, California.

The groundwater samples were analyzed for the constituents presented in Text Table 1, below:

Text Table 1: Groundwater Sample Analyte List				
Modified Title 22 Constituents				
Magnesium	Zinc	Calcium	Total Alkalinity	Fluoride
Potassium	Aggressiveness Index	Chromium	Hydroxide	Specific Conductance
Sodium	Langlier Index	Lead	Carbonate	Total dissolved solids
Total Cations	Aluminum	Mercury	Bicarbonate	MBAS
Total Anions	Antimony	Nickel	Sulfate	Color
Boron	Arsenic	Selenium	Chloride	Cyanide
Copper	Barium	Silver	Nitrate	Odor
Iron	Beryllium	Thallium	Nitrite as N	Turbidity
Manganese	Cadmium	pH	Total Hardness	
Organic Pesticides and Herbicides				
Radioactivity				

These analytes were selected because they are typically found in groundwater (i.e., general minerals), or can aid in assessing pre-existing groundwater conditions that might be considered atypical (e.g., elevated concentrations of nitrates). The complete Title 22 suite was not performed, because we did not anticipate encountering constituents such as solvents, asbestos, etc.

The samples were analyzed on a normal laboratory schedule requiring approximately two weeks for completion.

5 RESULTS

5.1. SOIL SAMPLE PHYSICAL TESTING

Kleinfelder considered soil sample physical testing results for SB-1 through SB-6 in this feasibility assessment. Soils encountered in the monitoring well borings were similar in lithology to those encountered in SB-1 through SB-6, and the stratigraphy observed at both sites was similar. Soil sample physical testing results for samples collected from the borings for the monitoring wells were not considered in the feasibility assessment, but were used for selecting monitoring well construction materials.

Soil sample physical testing results are summarized in Table 1 in Appendix B. Soil boring logs for the monitoring well borings are in Appendix C and physical testing reports are in Appendix D.

Soils encountered in each of the borings consisted of interbedded silts, silty sands, sands, sandy silts, and minor clays. Coarse sands were encountered above a depth of approximately 35 feet in SB-1. The sediments are typical of river and stream deposits.

On the basis of our experience with this type of geologic environment, it is reasonable to assume that the soil layers beneath the site are interfingering and discontinuous. In support of that assumption, Kleinfelder did not observe apparently extensive soil layers that would be expected to make unimproved recharge infeasible.

The falling head permeabilities of the soil samples tested ranged from 2.6×10^{-3} cm/sec to 4.0×10^{-8} cm/sec. Most of the soil sample permeability magnitudes ranged between 10^{-3} cm/sec and 10^{-7} cm/sec, with a magnitude of 10^{-8} cm/sec for a soil sample from one boring (SB-4 @ approximately 36 feet bgs). Falling head permeability tests measure vertical percolation rates. Lateral permeabilities cannot be tested under normal laboratory conditions. Typically, lateral permeabilities can be as much as 10 times greater than vertical permeabilities in coarse material, with lateral and vertical permeabilities approaching unity in finer material.

5.2. GROUNDWATER DEPTH and GRADIENT

The depth to groundwater on the site is approximately 90 feet below ground surface bgs. Depths to water in MW-10, 11, and 12 were 93.59, 99.25, and 100.74 feet below well casing tops, respectively, on September 5, 2006.

The groundwater gradient on the Arbini property was calculated to be towards the north/northeast. The current arrangement of monitoring wells shows MW-10 (located at the site's southwest corner) to be upgradient of the proposed recharge site, MW-11 (located centrally on the northern boundary of the site) to be downgradient of the proposed site, and MW-12 (located at the site's southeast corner) also to be upgradient of the proposed site (Plate 2, Appendix A).

5.3. BASELINE GROUNDWATER QUALITY

Groundwater sample analytical results are summarized on Table 2 in Appendix B and laboratory analytical reports are in Appendix E.

Notable groundwater sample results are the detections of coliform bacteria, and the detections of iron and nitrate (as NO_3) at concentrations exceeding regulatory drinking water standards.

Undifferentiated species of coliform bacteria were detected in samples from each of the three monitoring wells. The detected concentrations ranged from 6.9 Most Probable Number per 100 milliliter (MPN/100ml) in MW-11 to greater than 23 MPN/100 ml in the samples collected from MW10 and MW-12.

Iron was detected at concentrations of 210 and 240 milligrams per liter (mg/l) respectively in groundwater samples collected from MW-10 and MW.12. The California Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for iron is of 50 mg/l.

Nitrate as NO_3 was detected at concentrations of 57.3 and 90.5 mg/l, respectively in groundwater samples collected MW-10 and MW-11. The EPA MCL for nitrate as NO_3 is 45 mg/l.

6 DISCUSSION

6.1. DESCRIPTION OF GROUNDWATER RECHARGING OPERATIONS

As a means to describe the various levels of sophistication of potential groundwater recharging operations and management of the surface water on the site, Kleinfelder assigned levels of effort to move surface water onto the site and to implement recharging operations to tiers. Tier III operations involve little or no improvement to the existing land surface other than ripping the ground surface, or relatively low berming of the area perimeter in order to contain surface water diverted to its location. Tier III operations provide an area that can have surface water diversions readily delivered and provide an acceptable, but not necessarily ideal, rate of percolation. Tier I operations involve the development, engineering and modification of the land surface to accommodate long-term and typically deep recharging basins. Tier I operations are ideally located in areas of favorable infiltration rates (i.e., at least 0.4 to 0.7 feet per day) for surface water to percolate to groundwater, or in areas where limited excavation can expose such soils.

6.2. GROUNDWATER RECHARGE FEASIBILITY

Kleinfelder did not observe conditions that would be considered prohibitive to successful Tier III and Tier I groundwater recharge operations.

Soils encountered in the borings occurred in apparently discontinuous, interbedded layers ranging from clayey silts to sand (with the exception of coarse sands above a depth of 35 feet in one boring). On the basis of Kleinfelder's field observations and our interpretation of the subsurface stratigraphy encountered in the six soil borings and the three monitoring well borings, laterally continuous layers of uniform soil types are not apparent between the ground surface and the water table. The subsurface conditions encountered during our field investigation are consistent with what we anticipated, based upon our knowledge of the former depositional environment and the local geology.

Soil sample testing results also support the field observations: soil samples collected showed a large range of permeabilities, ranging from 2.6×10^{-3} cm/sec (e.g., sand) to 4.0×10^{-8} cm/sec (e.g., clay). The permeabilities obtained by laboratory testing can be qualitatively evaluated for recharge potential by considering permeabilities related to other types of operations. For example, clay liners for waste disposal sites are designed to prevent or minimize water percolation and are required to be in the 10^{-7} range. Gravels and very coarse-grained materials associated with very high percolation rates have permeabilities in the 10^{-2} range.

As discussed in the following section, the soil permeabilities alone cannot be directly correlated to recharge capability, because a variety of field conditions, including areal extent of recharge operation, horizontal movement of percolating water in the subsurface, and thicknesses and continuities of various soil-type layers, also affect recharge capability.

6.2.1. Estimating Percolation Rates

Surface applied water will infiltrate into the subsurface, and then percolate through the subsurface down to groundwater under the influence of gravity. The permeability and interbedded nature of individual soil layers, the lateral movement of percolating water, and the continuity of soil layers (along with several other factors, such as thickness of the wetted front and depth of applied water) all affect the overall rate (bulk percolation rate) for applied water to reach groundwater.

The bulk percolation rate of a discrete soil column can be grossly estimated by adding the percolation rates of individual soil layers within the column. With this approach, outliers in the data (e.g., an exceptionally low permeability value in a set of higher permeability values) can act as limiting factors, potentially producing a bulk percolation rate that is unrealistically low. In nature, water moves across and laterally through layers of relatively impermeable soil, typically at rates that are faster than the vertical percolation rates. When the water moving laterally encounters coarser material, it resumes its downward movement. Thus, in nature, the bulk percolation rates are commonly greater than those calculated by adding the rates of individual layers within a soil column.

A simple tool that can be used more effectively for estimating the bulk rate of infiltration of water through a discreet soil column is the “harmonic mean.” Harmonic mean is used for estimating *rate of movement* (based upon different rates over similar distances). In the case at hand the harmonic mean is a bulk percolation rate that is based upon the combined permeabilities of the layers of a soil column. Using the harmonic mean, we are able to obtain general estimates that are less affected by data outliers than estimates obtained using the arithmetic mean.

The mean permeability rates and infiltration rate estimates are presented in Text Table 2, below. It was necessary to assign values to soils below 50 feet deep using data generated from shallower samples, based upon similar soil descriptions.

Text Table 2: Harmonic Mean Permeabilities and Estimated Infiltration Rates

Sample Location	Permeability ¹ (cm/sec)	Infiltration Rate (feet/day)	Est. Days to Reach Groundwater ²
SB-1	3.35E-7	0.037	3232.43
SB-2	1.83E-6	0.169	704.78
SB-3	6.94E-7	0.102	1,275.51
SB-4	1.00E-6	0.097	1406.60
SB-5	7.29E-7	0.088	1,821.30
SB-6	3.21E-6	0.305	409.02
MW-10	1.18E-6	0.106	1,101.92
MW-11	4.77E-7	0.046	2,688.83
MW-12	5.40E-7	0.053	2,393.44

Notes:

1. Calculated harmonic means of the falling head permeabilities of the soil samples collected from 10-foot depth intervals at depths from 10 to 50 feet, and the estimated permeabilities of the soil samples collected from depths of 60 to 100 feet in each boring.
2. Calculated days to reach groundwater plus 30 percent to account for pore clogging, lateral dispersion, fluctuating pond water level, saturation levels, and other unknown values.

As stated in “Recommendations” (Chapter 8 of this report), Kleinfelder recommends supplemental field testing, such as pilot testing and/or aquifer testing, and three-dimensional computer modeling to allow us to refine our understanding of field conditions and our estimates of percolation rates.

In nature, the rates at which water moves downward through the soil are affected by the following factors that are currently unknowns and that cannot be considered in simple two-dimensional analyses:

- Lateral movement rates related to interfingering and discontinuity of soil layers, and orientation of soil particles
- Pore clogging due to fine sediment buildup as recharge proceeds
- Driving forces consisting of the depth of ponded water and critical pressure head of soil for wetting
- Presence and extent of a wetted front

With additional field data from more sample locations, along with published data, values can be assigned to the unknowns listed above, and incorporated into a computer program that produces three-dimensional models of groundwater movement. Developing this type of model without the benefit of computer programs is impractical because of the difficulty of working with multiple variables in three dimensions.

6.3. CONCEPTUAL RECHARGE OPERATIONS

As shown on Plate 3, the southern one-third of the site has been conceptualized for storm water capture and Tier I (engineered) recharge operations. The storm water basin would be constructed to hold 100-year, 24-hour storm event floodwaters from North Littlejohns Creek. The Tier I facilities would consist of individual cells to facilitate maintenance and allow for the efficient use of diverted waters.

The Tier I area will require improvements such as excavation and engineering of a basin area. In addition, a diversion structure will be needed to obtain water from North Littlejohns Creek, contract water, spill water, or storm water. Non-potable surface water will also be obtained from Duck Creek to the north, and delivered to the site via a pipeline running along Kaiser Road. The water from Duck Creek will also be contract water, spill water, floodwater, or storm water.

On the basis of laboratory-determined soil permeabilities; infiltration rate estimates, and relative locations with respect to North Littlejohns Creek and other water delivery mechanisms, the northern two-thirds of the site (approximately 204 acres) are considered suitable for use as short-term Tier III and long-term Tier I recharge venues.

In order to allow farming of most of the site while the development proceeds, Tier III operations would be undertaken on the basis of necessity and/or opportunity.

Water must be applied at a rate of at least 2 acre-feet for every acre-foot of desired recharge. If the application rate is less than this, the volume of water recharged will be reduced and percolation rates may decrease.

The total non-potable water demand for the Development as stated in the IWMP is 3,089 acre-feet per year. This consists of approximately 1,524 acre-feet per year for irrigation and as much as 1,565 acre-feet per year to maintain lake levels.

Based on the requirement to apply at least 2 acre-feet for every acre-foot of desired recharge, it will be necessary to apply 6178 acre-feet of water per year at the Arbini site.

To estimate the ability of the Arbini site to recharge an amount equal to or in excess of the 6,178 acre-feet per year at full build-out of the Development, we are assuming that no less than 250 acres of the facility will be in full operation for no less than 220 days per year. This allows for routine maintenance, and breaks in the delivery of non-potable water to the site. We are also assuming that full saturation of the soil column occurs during those 220 days, and that an adequate head of water is maintained in the recharging basins.

Based on our reported permeability rates and estimated percolation rates, and the assumptions stated above we estimate that a total of as much as 19,065 acre-feet of water can be infiltrated at the Arbini property over a year. As previously discussed, the percolation rates used in this calculation are considered conservative, as they do not account for lateral movement of the recharged water.

6.4. REGULATORY AGENCY AND PERMITTING REQUIREMENTS

The operation of the groundwater recharging basins is not anticipated to trigger the need to obtain additional permits. The ponding of the surplus water into individual recharging basins is typically not considered an issue with the State Regional Water Quality Control Board (RWQCB) in cases where sufficient vertical separation between the bottom of the basin(s) and groundwater occurs. In this case, the separation between the proposed bottom of the deepest basin and groundwater is estimated to be

75 to 80 feet, which would provide a significant thickness of intervening strata where adsorption and absorption of potential contaminants can occur. However, water used for recharge must be chemically analyzed to assess its suitability for recharge (i.e. to avoid contributing contaminants to groundwater).

The storm water retention basin(s) can be considered a post construction "Best Management Practice" (BMP). The operation of the storm water basin(s) is covered under the City of Stockton Municipal Storm Water Permit. The City is ultimately responsible for storm water discharges and has jurisdiction for such operations, even though the State RWQCB issues the City the permit to perform such operations. Kleinfelder anticipates the need to supply the City of Stockton with a "Notice of Intent" (NOI) to discharge storm-related flows diverted from North Littlejohns Creek into the basins established on the Arbini property.

7 CONCLUSIONS AND RECOMMENDATIONS

7.1. CONCLUSIONS

Soils encountered in the borings drilled on the Arbini site were similar in lithology and stratigraphy to those encountered during drilling on the Mariposa Lakes Development site.

Soils encountered beneath the site consist of silts, silty sands, sands, sandy silts, and minor clays deposited by rivers and small streams. River- and stream-laid deposits are typically discontinuous, and this was supported by our field observations.

Kleinfelder did not observe conditions that would be considered prohibitive to successful Tier III groundwater recharge operations and later Tier I operations. We did not observe soil layers that appeared to be continuous among the six soil borings and the monitoring well borings, nor did we observe thick or pervasive clay layers.

Estimated infiltration rates of 0.037 to 0.305 feet per day based upon our bulk permeability estimates are conservative. We anticipate percolation rates that could be as much as an order of magnitude greater than those derived by our two-dimensional analyses. This is because a number of factors that are more easily analyzed three-dimensionally contribute to higher rates of percolation. Foremost of these factors is lateral movement of the water. Using two-dimensional analyses, we are limited to analyzing vertical movement of the water. In nature (i.e., at the site), applied water will percolate downward from the surface, and when relatively fine-grained soil layers are encountered, it will move laterally across and through them. In sandy soils, this lateral movement can be as much as 10 times faster than the vertical movement.

The southern one-third of the site is preliminarily designated as a flood control and Tier I recharging venue. We anticipate that the southern one-third of the site can also be used in for storm water control during at least six months of the year or 180 days (December through May). Our conclusion is that this area can perform a dual-service, as both a Tier I recharging area, and as a stormwater basin. During those times of the year when potential flooding is possible, if enough free-board can be maintained with this area (i.e.,

4 feet), then both types of operations should be feasible simultaneously. The northern two-thirds of the site are considered suitable for use as short-term Tier III and long-term Tier I recharge venues.

Total coliform bacteria (undifferentiated species) were detected in groundwater samples from each of the wells. Generally, the presence of coliform bacteria must be confirmed by a series of samples collected over a period of time. Neither the source(s) nor the species have been assessed. Some species are harmless, while others (e.g., fecal coliform, which comes from the gut of warm blooded animals) can pose potential health hazards. Coliform can be introduced to groundwater from a variety of sources, ranging from agricultural operations to septic systems. Coliform can also temporarily appear in groundwater sampled from newly-constructed monitoring wells, as a result of construction activities. For this reason, the new monitoring wells on the Arbini property should be disinfected before they are sampled again.

Two of the three water samples (MW-10 and MW-12) had concentrations of iron above the MCL of 50 mg/l. The source(s) of the detected concentrations of iron has not been assessed, and could be naturally occurring. Nitrate as NO_3 was detected above the MCL of 45 mg/l in MW-10 and MW-11. Nitrate is a widespread contaminant in the Central Valley of California, with sources commonly traceable to fertilizer and other agricultural activities.

On the basis of Kleinfelder's groundwater elevation measurements, the direction of groundwater movement on the Arbini site appears to be to the north-northeast, generally parallel to the Mariposa Lakes development site. This is consistent with the groundwater flow direction reported in SJFCWCD records. If this is the case, recovery wells may be located on the Arbini property. Additional groundwater elevation monitoring is necessary to assess the groundwater gradient seasonally and because local pumping can temporarily affect gradient.

Groundwater quality monitoring will require additional monitoring wells to adequately assess and monitor water quality changes that could potentially occur in response to recharging operations. Furthermore, as infiltrating water mounds beneath the site, it is likely that additional, shallower monitoring wells may be required to assess this mounding.

The groundwater depths and gradient measured on the Development site during Kleinfelder's 2006 hydrogeologic investigation were similar to depths and gradient measured on the Arbini site during the present investigation. As presented in Kleinfelder's April 7, 2006 "Hydrogeologic Investigation Report" for the Development, the groundwater depths measured in the monitoring wells on that site ranged from approximately 79 to 90 feet below casing tops in February 2006. The groundwater gradient was to the northeast. Similarly, groundwater chemistry in groundwater samples collected from the Development site and the Arbini site was similar.

On the basis of this investigation, Kleinfelder concludes that artificial recharge of groundwater, using non-potable surface water, is feasible at the Arbini site, assuming adequate supplies of acceptable quality non-potable water will be available for recharging operations. The recharge site must be properly operated and maintained. Initially, at least 2 acre-feet of water should be applied for every acre-foot of recharged water desired. If water is applied at a lower rate, recharge volume will be less and percolation rates may decrease.

Additional work is required to refine our assessment of the overall recharging performance. This additional work includes installing new monitoring wells, performing pumping tests to assess the receiving aquifer's hydraulic characteristics, and modeling of the facility to assess mounding and recharge performance.

Recharging operations must begin as soon as possible so that the accumulation of this recharged water can begin, to meet the anticipated future irrigation needs.

8 RECOMMENDATIONS

Kleinfelder recommends the following:

- Begin recharging operations as soon as practicable to accumulate the needed groundwater supply to meet the Development's anticipated irrigation needs. If possible, recharging operations should occur at about the same time as additional assessments, to allow for further assessments of infiltration performance. In essence, these would be pilot tests for the recharging operations.
- Initially, at least 2 acre-feet of water should be applied for every acre-foot of recharge should be applied. Applying less water will reduce the recharge volume and potentially reduce the recharge rate. The recharge site must be properly operated and maintained. As recharging operations proceed, data will be generated and additional assessment can be made of the 2:1 ratio, with the objective of reporting whether or not a lower ratio is justifiable.
- Consider conducting Tier I groundwater recharging operations within the southern one-third of the site (approximately 104 acres). Furthermore, this area should be engineered to meet a dual-purpose, which would be detention of storm water originating from 100-year flood flows along North Littlejohns Creek. We recommend that the Tier I basin cell improvements include an excavation to approximately 12 to 15 feet below the site grade. Individual cells should be constructed to allow for the management of the water and basin. Water diverted into the cells should be managed to fill each individual cell independently from the others. At no time should the cells be filled to the top. Each cell should maintain at least one foot of minimum freeboard during non-storm periods, and four feet during storm periods. The use of the cells should be rotated so that filling and maintenance can be done in a manner to allow for efficient management of the cells. This area should also be utilized to capture flood flows from North Littlejohns Creek. Pre-storm assessments of anticipated holding capacities will be necessary in order to free up storage for major storm events.

- Use the remaining acreage for Tier III recharging operations on an as-needed basis. At a later date to be determined, this land can be improved for use as long-term Tier I recharging operations. Tier III recharge operations require little site improvements to allow for the near-immediate start of surface water diversions from North Littlejohns Creek and Duck Creek for groundwater recharging. Surplus surface water flowing in North Littlejohns Creek or Duck Creek can be readily diverted into a shallow spreading basin, partitioned into individual cells. Until the need arises for such diversions, the remaining land can continue to be farmed.
- Conduct additional geotechnical assessments to refine our assessment of the recharge potential of the Arbini property. We recommend that additional soil borings be drilled at locations throughout the property to further assess the recharge potential of those areas. Our infiltration rate estimates are conservative, because our data are limited and our analysis is two-dimensional. Additional data can be input to a model to better estimate infiltration rates, and/or field pilot testing can provide performance data.
- Conduct a groundwater-pumping test using the existing irrigation well located near the site's northern boundary to assess the aquifer's performance under stress due to pumping. Extraction wells ranging in depth between 200 and 300 feet will be installed at a later date to withdraw recharged groundwater. The pumping test data will provide us with an understanding of how these wells will perform.
- Continue monitoring water levels in the three newly-installed monitoring wells at least quarterly, in accordance with Kleinfelder's November 17, 2006 "Monitoring Plan Implementation" proposal. Regular monitoring will be useful for assessing seasonal variations in groundwater depths and chemistry. The monitoring wells should be disinfected before they are sampled again, to reduce the potential for the presence of coliform bacteria related to well construction activities.
- Monitor groundwater in the upgradient and downgradient locations to assess potential mounding and subsurface recharge from on-site operations and surficial water flows. To accomplish this, Kleinfelder recommends that three additional monitoring wells be installed on the Arbini site, as follows: One located near the

southern boundary, one near the property's northeast corner and one near the northwest corner.

- Perform groundwater modeling following the completion of the new well installations and pumping tests. The objective of the modeling would be to assess the potential mounding of infiltrating water beneath the site, and long-term recharge performance.

9 LIMITATIONS

Kleinfelder has prepared this report in accordance with the generally accepted standards of care that exist in San Joaquin County at the time of writing. It should be recognized that definition and evaluation of geologic and chemical subsurface conditions are difficult. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface and/or historic conditions applicable to the site. More extensive studies may further reduce the uncertainties associated with this assessment. Kleinfelder should be notified for additional consultation if the client wishes to reduce the uncertainties beyond the level associated with this report. No warranty, expressed or implied, is made.

Kleinfelder's opinions relative to water demands for the Development are based upon demand values described in the IWMP, our understanding of readily available non-potable water supplies, and the assumption of adequate maintenance and operation of the recharge facilities constructed at the Arbini site.

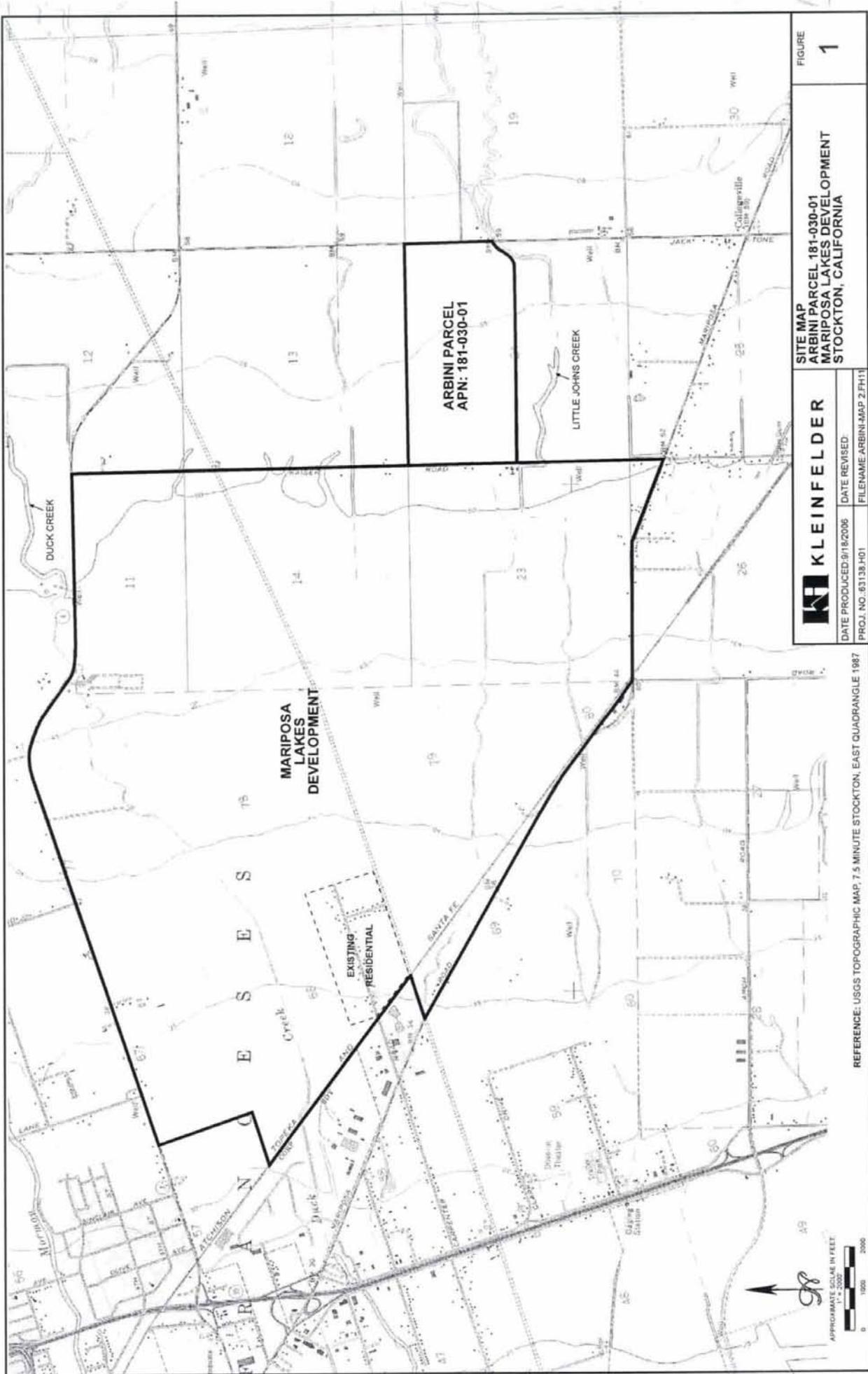
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This document may be used only by Client (and regulatory agencies having enforcement jurisdiction over the project site) and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both on site and off site) or other factors may change over time, and additional work may be required with the passage of time. Anyone other than the client who wishes to use or rely on this report, shall request permission in writing from Kleinfelder. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this document by any unauthorized party.

Appendix A



ARBINI PARCEL
APN: 181-030-01

MARIPOSA LAKES DEVELOPMENT
STOCKTON, CALIFORNIA

FIGURE
1



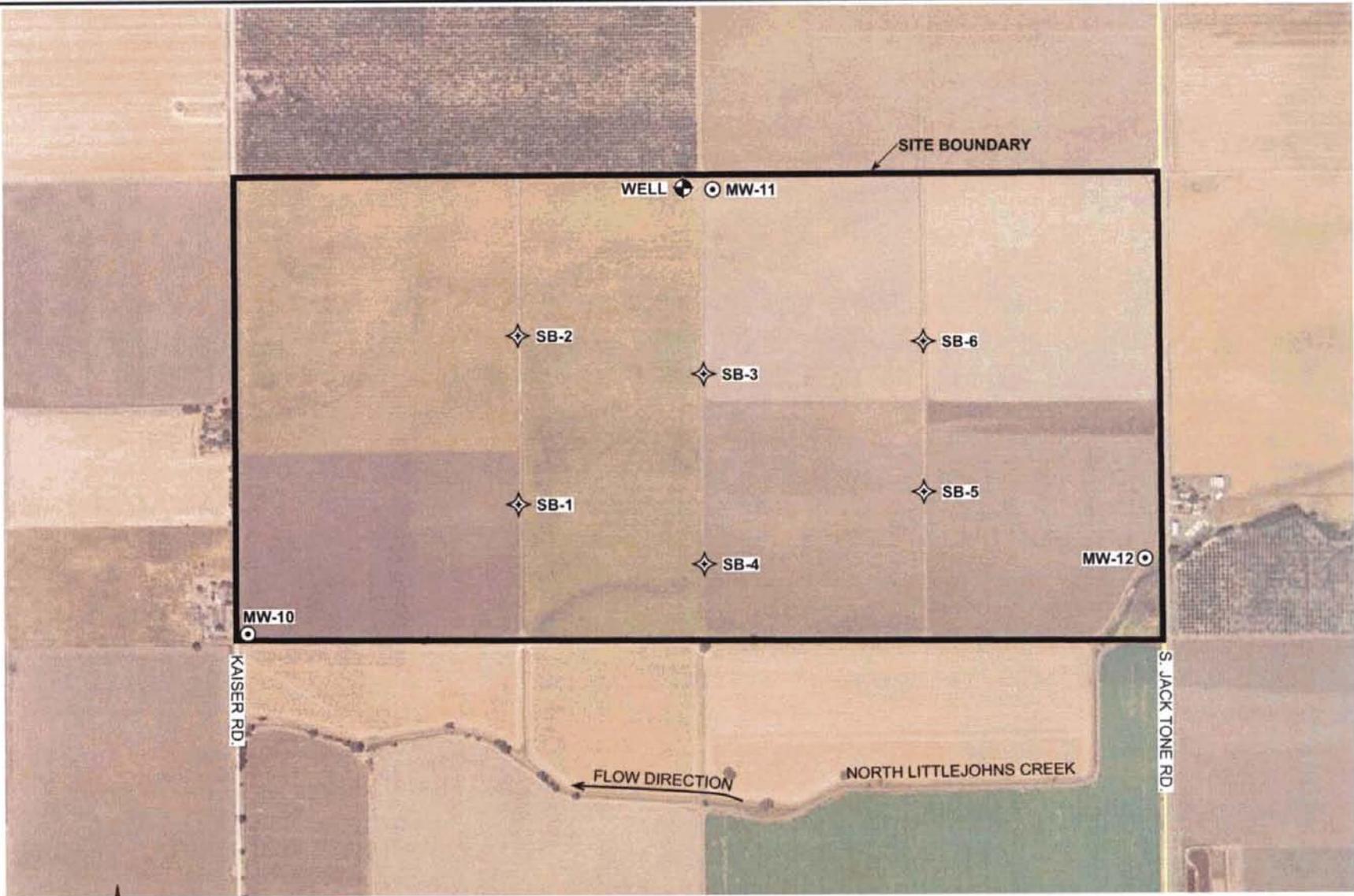
KLEINFELDER

DATE PRODUCED: 9/15/2006
 DATE REVISED:
 PROJ. NO. 63133-H01
 FILENAME: ARBINI-MAP 2.FH11

REFERENCE: USGS TOPOGRAPHIC MAP, 7.5 MINUTE STOCKTON, EAST QUADRANGLE 1987

APPROXIMATE SCALE IN FEET
 1" = 2000'
 0 1000 2000

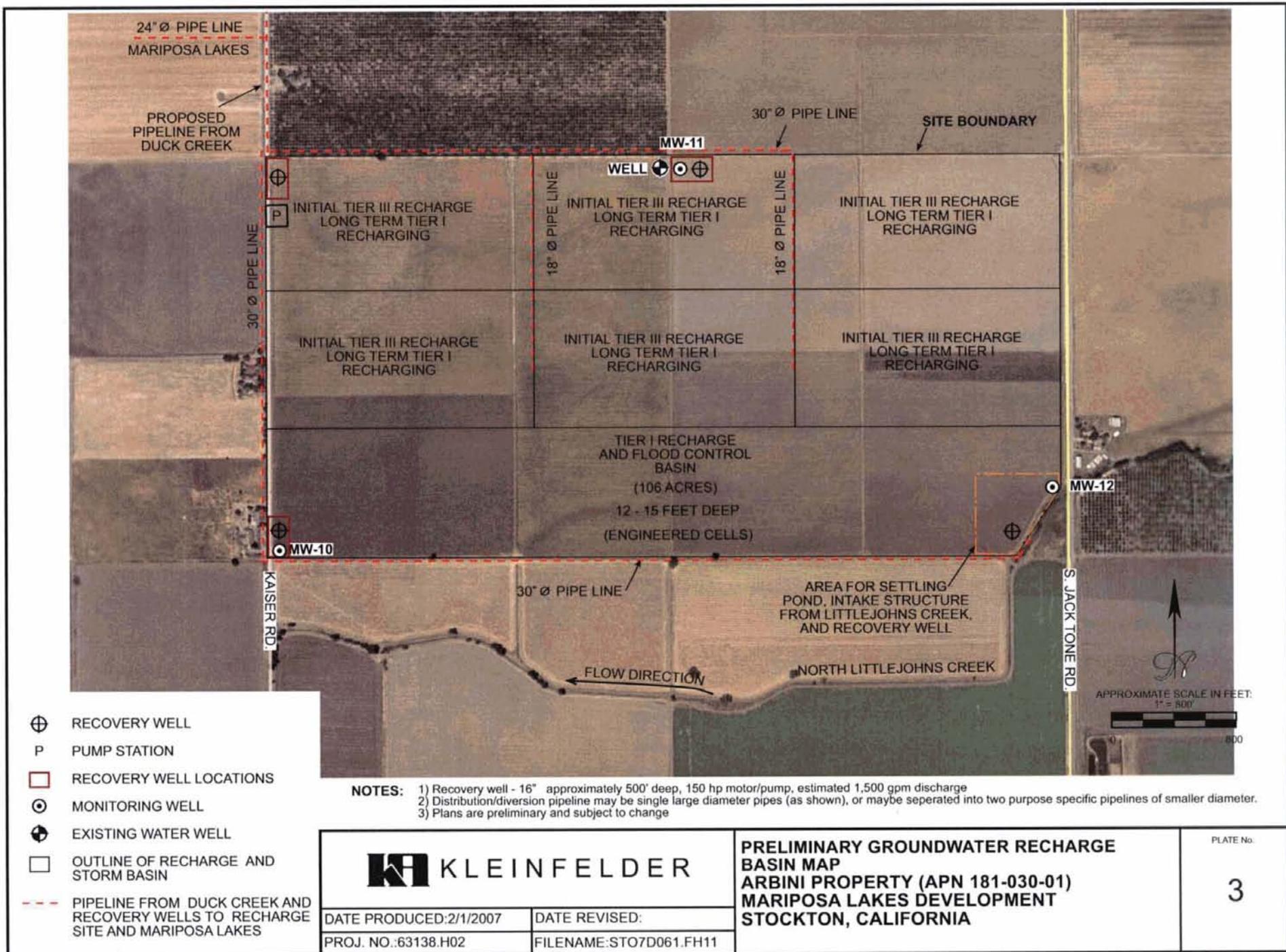
DATE: 9/15/2006



SOIL BORING LOCATIONS
 MONITORING WELL LOCATIONS
 EXISTING WATER WELL



KLEINFELDER	SOIL BORING AND MONITORING WELL LOCATION MAP ARBINI PROPERTY (APN 181-030-01) MARIPOSA LAKES DEVELOPMENT STOCKTON, CALIFORNIA		PLATE No. 2
	DATE PRODUCED: 12/1/2006 PROJ. NO.: 63138.H02	DATE REVISED: FILENAME: STO6D857.FH11	



- ⊕ RECOVERY WELL
- P PUMP STATION
- ⊕ RECOVERY WELL LOCATIONS
- ⊙ MONITORING WELL
- ⊕ EXISTING WATER WELL
- OUTLINE OF RECHARGE AND STORM BASIN
- - - PIPELINE FROM DUCK CREEK AND RECOVERY WELLS TO RECHARGE SITE AND MARIPOSA LAKES

NOTES: 1) Recovery well - 16" approximately 500' deep, 150 hp motor/pump, estimated 1,500 gpm discharge
 2) Distribution/diversion pipeline may be single large diameter pipes (as shown), or maybe seperated into two purpose specific pipelines of smaller diameter.
 3) Plans are preliminary and subject to change

		PRELIMINARY GROUNDWATER RECHARGE BASIN MAP ARBINI PROPERTY (APN 181-030-01) MARIPOSA LAKES DEVELOPMENT STOCKTON, CALIFORNIA	PLATE No. <div style="font-size: 2em; font-weight: bold; text-align: center;">3</div>
DATE PRODUCED: 2/1/2007	DATE REVISED:		
PROJ. NO.: 63138.H02	FILENAME: STO7D061.FH11		

Appendix B

**Table 1. Summary of Laboratory Soil Sample Testing Results
Arbini Property**

Sample Location	Sample Depth (ft bgs)	Sample Description ¹	Estimated Permeability ² (K) (cm/sec)	Falling Head Permeability ³ (K) (cm/sec)
SB-1	5			2.80E-04
	10	Sandy Silt	1.00E-05	
	15			6.30E-06
	20	Sand w/Aggregate	1.00E-03	
	25			2.60E-03
	30	Sand w/Aggregate	1.00E-03	
	35			4.00E-08
	40	Clayey silt	1.00E-07	
	45			1.30E-06
	50	Sandy Silt	1.00E-04	
SB-2	5			6.10E-05
	10	Sandy Silt	1.00E-04	
	15			9.30E-07
	20	Sandy Silt	1.00E-04	
	25			1.70E-06
	30	Sandy Silt	1.00E-03	
	35			4.30E-07
	40	Sandy Silt	1.00E-06	
	45			2.10E-03
50	Clayey silt	1.00E-06		
SB-3	5			4.90E-07
	10	Sandy Silt	1.00E-04	
	15			2.20E-03
	20	Silt	1.00E-05	
	25			2.80E-04
	30	Silt	1.00E-06	
	35			1.40E-07
	40	Silt	1.00E-04	
	45			1.10E-05
50	Silt	1.00E-06		
SB-4	5			3.50E-06
	10	Sandy Silt	1.00E-04	
	15			2.20E-07
	20	Clayey silt	1.00E-06	
	25			8.30E-05
	30	Silt	1.00E-07	
	35			1.30E-05
	40	Sand	1.00E-02	
	45			1.80E-04
50	Sandy Silt	1.00E-04		

**Table 1. Summary of Laboratory Soil Sample Testing Results
Arbini Property**

Sample Location	Sample Depth (ft bgs)	Sample Description ¹	Estimated Permeability ² (K) (cm/sec)	Falling Head Permeability ³ (K) (cm/sec)
SB-5	5			5.20E-05
	10	Silty Sand	1.00E-03	
	15			1.50E-06
	20	Silt	1.00E-05	
	25			2.20E-04
	30	Silt	1.00E-07	
	35			2.60E-04
	40	Sandy Silt	1.00E-04	
	45			7.90E-07
	50	Silty Sand	1.00E-04	
SB-6	5			1.70E-06
	10	Clayey silt	1.00E-06	
	15			8.30E-04
	20	Sand	1.00E-03	
	25			3.40E-06
	30	Silt	1.00E-06	
	35			3.70E-06
	40	Silty Sand	1.00E-04	
	45			4.40E-05
	50	Silt	1.00E-04	

Notes:

- 1 Sample description based upon laboratory sieve analyses results.
- 2 Permeability (K) estimated on the basis of grain size descriptions (from sieve analysis and boring logs), using "Applied Hydrogeology, Third Edition", C.W. Fetter, Prentice-Hall, Inc., 1994. Table 4.6 "Ranges of intrinsic permeabilities and hydraulic conductivities for unconsolidated sediments."
- 3 Permeability calculated on the basis of laboratory falling-head test results.

Table 2. Groundwater Analytical Results
Mariposa Lake and Arbut Property
MW-1 thru MW-12 (1 of 2)

Analytes	Units	Sample Location												Water Quality Standards	
		MW-1 (2/2006)	MW-2 (2/2006)	MW-3 (2/2006)	MW-4 (2/2006)	MW-5 (9/5/2006)	MW-6 (2/2006)	MW-7 (2/2006)	MW-8 (2/2006)	MW-9 (2/2006)	MW-10 (9/5/2006)	MW-11 (9/5/2006)	MW-12 (9/5/2006)		Travel Blank
Inorganic															
Total Hardness	mg/L	207	322	113	356	310	269	190	207	290	517	350	154	NA	NA
Calcium	mg/L	45	69	24	86	70	60	40	40	60	110	76	32	NA	NA
Magnesium	mg/L	23	37	13	44	33	29	22	26	34	59	39	18	NA	NA
Potassium	mg/L	4	9	5	6	4	6	6	8	10	8	4	4	NA	NA
Sodium	mg/L	28	88	35	74	59	38	81	71	91	39	38	32	NA	20 ⁽⁴⁾
Total Chloride	mg/L	5.5	10.9	3.9	11.3	8.9	7.2	7.5	7.4	10.0	12.2	8.8	4.6	NA	NA
Total Anions	meq/L	5.8	11.2	4.0	11.9	9.2	7.2	7.3	7.0	9.3	12.3	8.9	5.8	NA	NA
Boron	mg/L	ND	0.1	ND	0.1	0.15	0.1	0.2	0.2	0.2	0.08	0.05	0.17	NA	700 ⁽⁶⁾
Copper	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	1,300 ⁽¹⁾ , 1,000 ⁽³⁾
Iron	µg/L	60	610	30	450	110	120	320	190	560	210	ND	240	NA	300 ⁽²⁾
Manganese	µg/L	ND	ND	30	20	10	10	20	10	50	ND	ND	40	NA	50 ⁽²⁾
Zinc	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	5,000 ⁽³⁾
Aggressiveness Index	mg/L	11.8	12.3	11.7	12.3	12.5	12.1	11.7	11.9	11.9	12.6	12.5	11.8	NA	NA
Langelier Index	mg/L	0.0	0.5	-0.2	0.4	0.6	0.2	-0.2	0.0	0.0	0.7	0.6	0	NA	NA
Aluminum	µg/L	70	20	380	170	ND	140	150	110	280	ND	ND	810	NA	1,000 ⁽¹⁾ , 200 ⁽²⁾
Antimony	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	6 ⁽¹⁾
Arsenic	µg/L	3	5	7	4	5	4	5	4	4	3	3	3	NA	10 ⁽¹⁾
Barium	µg/L	124	106	48.1	234	288	86.3	76.1	78.7	85.1	202	232	86.7	NA	1,000 ⁽³⁾
Beryllium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	4 ⁽¹⁾
Cadmium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	5 ⁽¹⁾
Chromium	µg/L	36	5	2	5	NA	2	3	5	5	NA	NA	NA	NA	50 ⁽¹⁾
Lead	µg/L	ND	ND	0.3	0.2	ND	ND	ND	0.4	0.4	ND	ND	0.4	NA	15 ⁽¹⁾
Mercury	µg/L	0.05	ND	ND	ND	ND	ND	0.02	0.02	0.02	ND	ND	ND	NA	2 ⁽¹⁾
Nickel	µg/L	ND	ND	2	2	2	2	1	2	2	2	ND	1	NA	100 ⁽¹⁾
Selenium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	NA	50 ⁽¹⁾
Silver	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	100 ⁽²⁾
Thallium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	2 ⁽¹⁾
Vanadium	µg/L	27	22	37	25	33	22	23	17	17	18	23	18	NA	100 ⁽⁸⁾
pH	units	7.4	7.7	7.7	7.3	7.7	7.5	7.4	7.6	7.5	7.6	7.8	7.8	NA	6.5-8.5 ⁽²⁾
Wet Chemistry															
Total Alkalinity as CaCO ₃	mg/L	230	260	160	420	380	270	180	190	150	380	280	210	NA	NA
Hydroxide	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Carbonate	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Bicarbonate	mg/L	280	320	190	510	480	330	210	230	160	470	330	260	NA	NA
Sulfate	mg/L	14	44	11	35	20	20	23	14	50	66	31	13	NA	250, 500 ⁽²⁾
Chloride	mg/L	12	140	16	68	40	40	96	94	180	81	48	43	NA	250 ⁽²⁾
Nitrate	mg/L	33.0	63.4	5.4	51.5	6.5	11.9	36.8	13.5	16.5	57.3	90.5	1.2	NA	45 ⁽¹⁾
Nitrite as N	mg/L	ND	0.61	ND	0.31	ND	0.12	0.38	0.39	0.39	ND	ND	ND	NA	1 ⁽¹⁾
Fluoride	mg/L	0.2	0.3	0.3	0.2	ND	0.2	0.1	0.1	ND	ND	ND	0.2	NA	2 ⁽¹⁾
Specific Conductance	µmhos/cm	540	1,110	386	1,080	891	675	737	682	956	1,240	940	540	NA	1500 ⁽¹⁾
Total Dissolved Solids	mg/L	370	710	260	700	570	430	490	420	560	810	610	320	NA	500 ⁽²⁾
MRAS (foaming agents)															
Color	units	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0.5 ⁽²⁾
Cyanide, Total	mg/L	5	ND	20	20	ND	5	ND	ND	5	5	5	15	NA	15 ⁽²⁾
Odor	TON	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0.15 ⁽¹⁾
Turbidity	NTU	208	1,270	2,570	8,970	969	4,170	33.0	26.3	426	1,040	452	2,380	NA	5 ⁽¹⁾

Table 2. Groundwater Analytical Results
Mariposa Lakes and Arbut Property
MW-1 thru MW-12 (Page 2 of 2)

Sample Location	Units	Inorganic				Organic			
		Radio Chemistry		Coliform		Dioxin			
		Gross Alpha	Gross Beta	Uranium	Total	Fecal			
MW-1		3.78 (1.14)	2.68 (0.852)	NA	1.1	<1.1	<5.0	ND	ND
MW-2		6.73 (2.60)	2.66 (1.50)	NA	23.0	<1.1	<5.0	ND	ND
MW-3		0.000 (0.672)	2.31 (0.732)	NA	12.0	<1.1	<5.0	ND	ND
MW-4		10.3 (2.57)	4.11 (1.69)	NA	>23.0	<1.1	<5.0	ND	ND
MW-5		11.1 (2.31)	3.03 (1.27)	NA	>23.0	<1.1	<5.0	ND	ND
MW-6		2.91 (1.25)	3.67 (0.900)	NA	>23.0	16.1	<5.0	ND	0.2***
MW-7		2.64 (1.40)	5.77 (1.02)	NA	>23.0	<1.1	<5.0	ND	ND
MW-8		3.31 (1.31)	4.85 (1.19)	NA	>23.0	<1.1	<5.0	ND	ND
MW-9		3.81 (1.65)	15.5 (3.15)	7.56 (1.66)	>23.0	<1.1	<5.0	ND	ND
MW-10		6.28 (1.72)	7.10 (2.05)	NA	>23.0	<1.1	<5.0	ND	ND
MW-11		4.56 (1.28)	3.87 (1.24)	NA	6.9	<1.1	<5.0	ND	ND
MW-12			2.50 (0.901)	0.951 (1.23)	>23.0	<1.1	<5.0	ND	ND
Travel	Blank			NA	NA	NA	NA	ND	ND
Water Quality Standards				50 ⁽¹⁾	50 ⁽¹⁾	30 ⁽¹⁾	30 ⁽¹⁾	100 ⁽¹⁾	10 ⁽¹⁾ , 14 ⁽¹⁾

Notes

mg/L = milligrams per liter
 meq/L = milliequivalents per liter
 µg/L = micrograms per liter
 µmhc = microhms per centimeter
 TCN = Threshold Odor Number
 NTU = Nephelometric Turbidity Unit
 pCL = Picocuries Per Liter
 MPN = Most Probable Number
 pg/L = picograms per liter
 - = No standard promulgated

NA = not analyzed
 ND = not detect
 * = Nitrate reported as NO₃
 ** = Atrazine
 *** = Duron
 ◆ = no analytes detected per the EPA Method

PMCL (Primary Maximum Contaminant Level)
 SMCL (Secondary Maximum Contaminant Level)
 including Radium but excluding Uranium. (Reg. Title 22 sec. 64441.)
 SNARL (Suggested No-Adverse-Response Level)
 MCLG (Maximum Contaminant Level Goal)
 WQA (Water Quality for Agriculture)
 USEPA IRIS Reference Dose
 ± Error

Appendix C

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			USCS SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS (More than half of material is larger than the #200 sieve)	GRAVELS (More than half of coarse fraction is larger than the #4 sieve)	CLEAN GRAVELS WITH LITTLE OR NO FINES	 GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
		GRAVELS WITH OVER 12% FINES	 GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
			 GM	SILTY GRAVELS. GRAVEL-SILT-SAND MIXTURES
			 GC	CLAYEY GRAVELS. GRAVEL-SAND-CLAY MIXTURES
	SANDS (More than half of coarse fraction is smaller than the #4 sieve)	CLEAN SANDS WITH LITTLE OR NO FINES	 SW	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
			 SP	POORLY-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
		SANDS WITH OVER 12% FINES	 SM	SILTY SANDS, SAND-GRAVEL-SILT MIXTURES
			 SC	CLAYEY SANDS. SAND-GRAVEL-CLAY MIXTURES
FINE GRAINED SOILS (More than half of material is smaller than the #200 sieve)	SILTS AND CLAYS (Liquid limit less than 50)	 ML	INORGANIC SILTS & VERY FINE SANDS. SILTY OR CLAYEY FINE SANDS. CLAYEY SILTS WITH SLIGHT PLASTICITY	
		 CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS. SILTY CLAYS. LEAN CLAYS	
		 OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	SILTS AND CLAYS (Liquid limit greater than 50)	 MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT	
		 CH	INORGANIC CLAYS OF HIGH PLASTICITY. FAT CLAYS	
		 OH	ORGANIC CLAYS & ORGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY	
HIGHLY ORGANIC SOILS			 PT	PEAT, HUMUS. SWAMP SOILS WITH HIGH ORGANIC CONTENT

KA-USCS STO6G031-2.GPJ 1/5/07



UNIFIED SOIL CLASSIFICATION SYSTEM
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE

C-1

Drafted By: G. GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: STO6G031-2

LOG SYMBOLS

	BULK / BAG SAMPLE	-4	PERCENT FINER THAN THE NO. 4 SIEVE (ASTM Test Method C 136)
	MODIFIED CALIFORNIA SAMPLER (2-1/2 inch outside diameter)	-200	PERCENT FINER THAN THE NO. 200 SIEVE (ASTM Test Method C 117)
	CALIFORNIA SAMPLER (3 inch outside diameter)	LL	LIQUID LIMIT (ASTM Test Method D 4318)
	STANDARD PENETRATION SPLIT SPOON SAMPLER (2 inch outside diameter)	PI	PLASTICITY INDEX (ASTM Test Method D 4318)
	CONTINUOUS CORE	TXCU	CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION (EM 1110-1-1906)
	SHELBY TUBE	EI	EXPANSION INDEX (UBC STANDARD 18-2)
	ROCK CORE	COL	COLLAPSE POTENTIAL
	WATER LEVEL (level where first encountered)	UC	UNCONFINED COMPRESSION (ASTM Test Method D 2166)
	WATER LEVEL (level after completion)	MC	MOISTURE CONTENT (ASTM Test Method D 2216)
	SEEPAGE		

GENERAL NOTES

- 1 Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual
- 2 No warranty is provided as to the continuity of soil conditions between individual sample locations
- 3 Logs represent general soil conditions observed at the point of exploration on the date indicated
- 4 In general, Unified Soil Classification System designations presented on the logs were evaluated by visual methods. Where laboratory tests were performed, the designations reflect the laboratory test results.



LOG KEY
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE

C-2

Drafted By: G. GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: STO6G031-2

Surface Conditions: Grass and weeds off of Kaiser Road

Date Completed: 8/17/2006

Groundwater: Groundwater encountered at a depth of approximately 92 feet below existing site grade.

Logged By: CD

Method: Hollow Stem Auger

Total Depth: 102 feet

Equipment: BK-81

Boring Diameter: 8"

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION	Well Const
			Blows/ft	PID (ppmv)			
0 - 5	Hand auger	1	50/6"		(CL) SILTY CLAY		
5 - 10		2	32		(ML) SILT - Light brown, slightly moist, hard. very fine to fine sands, white veins present. some clay. some sand		
10 - 15		3	39		Sandy silt, trace clay, dark yellow brown, moist, hard. very fine sand, black organics present		
15 - 20		4	22		(SM) SILTY SAND - Light olive-brown, moist, dense, very fine to medium sands. iron oxidation present		
20 - 25		5	20		(ML) SANDY SILT - Yellow-brown, moist. very stiff, very fine sands. olive gray mottling. white veins present		
25 - 30					(SP) SANDY SILT - Brown, moist. stiff, weak cementation. very fine sands. white veins		
30 - 35					(ML) SANDY SILT - Brown, moist, stiff, weak cementation, very fine sands, white veins		
35 - 40					(SM) SILTY SAND - Low brown, moist, dense. very fine to fine sands, abundant mica		

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LOG OF WELL MW-10
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 4
C-3

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const.
		Sample No.	Blows/ft	PID (ppmv)			
30		6	45				
35		7	36		(SP) SAND - Dark yellow-brown, moist, dense, very fine to coarse sands		
40		8	17		Brownish yellow, medium dense, Trace fine gravel		
45		9	39		(SM) SILTY SAND - Dark yellow-brown, moist, dense, weak cementation, very fine to fine sands, trace medium sands		
50		10	50/6"		(ML) SANDY SILT - Dark yellow-brown, moist, hard, weak cementation, very fine sands Olive brown mottling, trace clay, black organics present, blocky		
55		11	50/6"		(SM/ML) SILTY SAND - Brown/dark yellow-brown, moist, dense/hard, weak/moderate cementation, very fine to medium sands, black organic mottling present		
60							

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL MW-10
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 2 of 4
C-3

Drafted By: G. GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
65		12	50/6"			(ML) CLAYEY SILT - Yellow-brown, slightly moist, hard, weak/moderate cementation, trace very fine sands, pale brown mottling, blocky	
		13	50/6"			(SM) SILTY SAND - Yellowish brown, moist, dense, weak cementation, very fine to coarse sands, white veins present	
70		14	55			(ML) SANDY SILT - Olive-brown, moist, hard, very fine sand, abundant mica	
75		15	50/6"			Brown, very fine to fine sands, black organics	
80		16	50/6"			(SP) SAND - Yellow-brown, moist, dense, very fine to medium sands, trace coarse	
		17	27			(ML) SILT - Pale olive, moist, very stiff, weak cementation, very fine sands (trace)	
85		17	27			Less clays, abundant mica, iron oxidation, black organics present	
90		18	65			Hard	

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LOG OF WELL MW-10
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 3 of 4
C-3

Drafted By: G. GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
95		19	50/6"			Some sand. trace clay. abundant iron oxidation veins. wet	
100		20	50			Sandy silt. Olive-brown. moist/wet. hard. very fine sand, iron oxidation	
105							
110							
115							
120							
						Well completed at a depth of approximately 102 feet below existing site grade.	

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL MW-10
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 4 of 4

C-3

Drafted By: G GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Surface Conditions: Weeds and barbwire fence

Date Completed: 8/16/2006

Groundwater: Groundwater encountered at a depth of approximately 92.5 feet below existing site grade.

Logged By: CD

Method: Hollow Stem Auger

Total Depth: 105 feet

Equipment: BK-81

Boring Diameter: 8"

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
0 - 5	Hand auger	1	75		(CL) SILTY CLAY - Dark brown, dry, moderate to strong cementation, very fine sands (trace), organics present (ML) SILT - Brown, moist, hard, weak/moderate cementation, some very fine sands, trace clay		
5 - 10		2	50/6"		Black organics present (SM/ML) SANDY SILT/SILTY SAND - Brown, moist, hard, very fine to fine sands, trace clay		
10 - 15		3	19		Olive-brown/black mottling (SM) SILTY SAND - Light olive-brown, moist, medium dense, very fine to medium sands		
15 - 20		4	24		Trace coarse sands (SP) SAND - Dark yellow-brown, moist, medium dense, very fine to coarse sands		
20 - 25		5	50/6"		(ML) SANDY SILT - Yellow-brown/brown moist, hard, weak cementation, very fine to fine sands		

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LOG OF WELL MW-11
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 4
C-4

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const.
		Sample No.	Blows/ft	PID (ppmv)			
30		6	50/6"			Increasing sands Strong brown, moderately cemented. very fine to medium sands	
35		7	50/6"			SILT - Light yellow-brown, moist, hard, moderate cementation, very fine sands. brown yellow and black mottling, some sand. some clay	
40		8	39			Silty sand, dark yellow-brown, moist, medium dense. very fine to medium sands (ML) SILT WITH CLAY - Light olive-brown, slightly moist. very stiff. weak cementation. very fine sands, white veins present	
45		9	50/6"			(SM) SILTY SAND - Dark yellow-brown, moist. very dense. very fine to fine sands	
50		10	53			(SP) SAND - Brown, moist, dense, very fine to medium sands. trace coarse sands. trace fine gravels	
55		11	45			(ML) SANDY SILT - Yellow-brown, slightly moist, hard, weak/moderate cementation. very fine sands, black organic mottling. blocky. some clay	
60							

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LOG OF WELL MW-11
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
2 of 4

C-4

Drafted By: G. GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const.
		Sample No.	Blows/ft	PID (ppmv)			
65		12	50/6"			(ML) CLAYEY SILT - Brown/pale brown, slightly moist, hard, weak/moderate cementation. some very fine sands, light gray/mottling, blocky, yellow-brown	
		13	50/6"			CLAYEY SILT - Brown, slightly moist, hard, very fine sands, moderate/strong cementation. iron oxidation and black mottling	
70		14	72			SANDY SILT - Brown/yellow-brown. moist, hard, very fine to medium sands, white veins present	
						(CL) SILTY CLAY - Pale olive, moist, hard, moderate cemented, mica present, strong	
75		15	50/6"			(ML) SANDY SILT - Light olive-brown, moist, hard, moderate cementation, very fine sands. abundant mica, iron oxidation present	
80		16	50			(SM) SILTY SAND - Olive-brown, moist, dense, moderate to strong cemented, very fine to fine sands, abundant mica, iron oxidation	
85		17	54			(SP) SAND - Dark yellow-brown, moist. dense. very fine to coarse sands, iron oxidation	
90		18	50/6"			Gray-brown, very dense. trace fine gravels, rounded/sub-rounded	

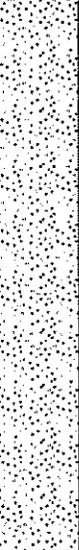
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LOG OF WELL MW-11
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 3 of 4
C-4

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
95		19	54				
100							Olive-brown, wet, dense, very fine to coarse sands
105							
110							
115							
120							
						Well completed at a depth of approximately 105 feet below existing site grade	

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LOG OF WELL MW-11
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 4 of 4

C-4

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Surface Conditions: Disked field adjacent to creek

Groundwater: Groundwater initially encountered at a depth of approximately 93 feet below existing site grade and finally at a depth of 96.5 feet.

Method: Hollow Stem Auger

Equipment: BK-81

Date Completed: 8/16/2006

Logged By: CD

Total Depth: 102 feet

Boring Diameter: 8"

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION	Well Const
			Blows/ft	PID (ppmv)			
0						(CL) SILTY CLAY - Dark brown, dry, strongly cemented, trace very fine sand, organics present	
5		1	50/6"			(ML) SILT WITH SAND - Brown, moist, hard, moderate cementation, very fine sands, with veins present	
10		2	34			(SM) SILTY SAND - Yellow-brown, moist, medium dense, very fine to fine sands	
15		3	18			(SP) SAND - Dark yellow-brown, moist, loose, very fine to medium sands	
20		4	51			(ML) SILT WITH SAND - Yellow-brown, moist, very stiff, very fine sands, some clay	
25		5	30			Hard, weak cementation, white veins, black mottling	
						(SM) SILTY SAND - Light olive-brown, very moist, medium dense, very fine to fine sands, abundant mica	
						(SP) SAND - Light olive-brown, very moist, medium dense, very fine to medium sands	

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LOG OF WELL MW-12
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 4
C-5

Drafted By: G. GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
30		6	45			(ML) SILT - Light olive-brown, hard, weak to moderate cementation, very fine sands, black and light brown mottling, some sands and clay	
35		7	35			CLAYEY SILT - Light yellow-brown, hard, very fine sands, brown and light gray mottling, some sand	
40		8	39			(SP) SAND - Dark yellow-brown, moist, dense, very fine to medium sands, dark brown, mottling	
45		9	50/6"			(SP/SM) SAND WITH SILT - Light olive-brown, moist, dense/very dense, weak to moderate cementation, very fine to medium sands, iron oxidation mottling	
50		10	38			(ML) SILT - Light olive-brown, moist, hard, weakly cemented, some very fine sands, some clays, brown mottling	
55		11	0			(SP) SAND - Dark brown, wet, dense, very fine to medium sand, some coarse sand and fine gravel (perched zone)	
60							

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LOG OF WELL MW-12
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 2 of 4
C-5

Drafted By: G. GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const.
		Sample No.	Blows/ft	PID (ppmv)			
65		12	50/6"			(ML) SANDY SILT WITH CLAY - Brown, moist, hard, very fine sands. white veins present	
		13	50/6"			Some clay, very fine to fine sands, iron oxidation present (mottling). abundant mica	
70		14	50/6"			(SP) SAND - Light brownish gray, moist, very dense, weak cementation, very fine to fine sands. abundant mica, iron oxidation present	
75		15	72			(ML) SILT - Light olive-brown, hard, moderate cementation, very fine sands, some sand, with clay	
80		16	50/6"			SANDY SILT - Light olive-brown, moist, hard, very fine to fine grained, trace clay, organics matter present	
85		17	50/6"			(SP) SAND - Light yellow-brown, moist, dense, fine to coarse sands	
		18	50/6"			(ML) CLAYEY SILT - Olive-brown, moist, hard, moderate cementation, very fine to medium sands (trace). iron oxidation present, olive mottling	
90						(SP) SAND - Olive-brown, very moist, dense, fine to medium sand	

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LOG OF WELL MW-12
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 3 of 4
C-5

Drafted By: G GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const.
		Sample No.	Blows/ft	PID (ppmv)			
95		19	50/6"				
100							
105							
110							
115							
120							
Well completed at a depth of approximately 102 feet below existing site grade							

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL MW-12
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE

4 of 4

C-5

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Surface Conditions: Dirt road

Date Completed: 8/10/2006

Groundwater: Groundwater encountered at a depth of approximately 91.5 feet below existing site grade.

Logged By: CD

Method: Hollow Stem Auger

Total Depth: 91.5 feet

Equipment: BK-81

Boring Diameter: 8"

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
5	Hand auger	1	50/5"		(ML) SILT - Dark brown, dry, trace of sand, trace clay, organics		
10		2	20		(ML) SANDY SILT - Light brown, dry, hard, very fine sands, (well cemented), white veins, trace clay		
15		3	19		(SM) SILTY SAND - Olive-brown, moist, very fine to fine sands		
20		4	27		Pale olive-brown, trace clay, trace black organics		
25		5	51		(SP) SAND - Dark brown, moist, medium dense, very fine to coarse sands, trace fine gravel		
					(SP-SW) SAND - Brown, moist, very dense, very fine to coarse sands, trace fine gravels, rounded/sub-rounded grains		

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LOG OF WELL SB1
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 3
C-6

Drafted By: G GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
30		6	32			Trace coarse gravel	
35		7	52			Sand, less coarse, no gravel, trace clay	
40		8	38			(CL) SILTY CLAY - Light olive-gray, slightly moist, trace very fine sands	
45		9	57			(ML) SANDY SILT - Light olive-brown, moist, hard, very fine sands, trace clay, trace iron oxidation	
50		10	50/6"			(SM/ML) SANDY SILT - Light olive-brown, moist, hard, very fine to fine sands, olive-gray mottling, iron oxidation	
55		11	49			(ML) SANDY SILT - Light olive-brown, moist, hard, very fine sands, trace clay, iron oxidation and black organics mottling	
60						Some clay, cemented pieces of silt, clay and sand, black organic mottling	

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB1
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 2 of 3
C-6

Drafted By: G. GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
65		12	50/6"			Silt with sand and clay. yellowish brown. slightly moist. hard, very fine sands. veins present	
						(CL) SILTY CLAY - Pale olive-gray, very slightly moist. hard, trace very fine sands, iron oxidation mottling	
70		13	50/6"			(SM/ML) SILTY SAND - Olive gray, moist, very dense. very fine sands, iron oxidation veins present. abundant mica	
						(SP) SAND - Light gray, slightly moist, very dense. very fine to coarse, some black sand, mica present. trace fine gravels	
75		14	50/6"				
		15	76			Moist, dense, very fine to fine sands, interbedded coarse sands (wet)	
80		16	50/6"			(CL) SILTY CLAY - Olive, moist, hard. very fine sands. iron oxidation present	
						(ML) SILT WITH CLAY AND SOME SAND - Light gray, moist, hard, fine sands	
85		17	48				
						(SP) SAND - Dark brown, wet, dense. very fine to medium sands	
90		18	54				
						Well completed at a depth of approximately 91.5 feet below existing site grade	

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB1
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 3 of 3
C-6

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Surface Conditions: Dirt road

Date Completed: 8/10/2006

Groundwater: Groundwater encountered at a depth of approximately 91 feet below existing site grade.

Logged By: CD

Method: Hollow Stem Auger

Total Depth: 90 feet

Equipment: BK-81

Boring Diameter: 8"

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION	Well Const
			Blows/ft	PID (ppmv)			
5	Hand auger	1	50/6"		(ML) SILT - Dark brown, dry, trace very fine sand, trace clay, organic water present		
10		2	42		(SM) SILTY SAND - Red-brown, dry, dense, very fine to fine sands		
15		3	50/6"		(ML) SANDY SILT - Light red-brown, moist, hard, very fine sands		
20		4	52		Trace clay, iron oxidation, veins present, light olive-brown		
25		5	50		(SM) SILTY SAND - Light olive-brown, moist, dense, very fine to fine sands, iron oxidation present		
					(SP) SAND - Brown/dark brown, moist, dense, very fine to coarse, trace fine gravel		
					(ML/SM) SANDY SILT - Light olive-brown, moist, hard, very fine to medium sands, iron oxidation present		

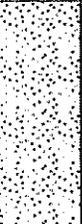
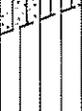
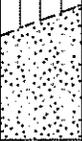
SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB2
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 3
C-7

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
30		6	45			(SP) SAND - Light olive-brown, moist, dense, very fine to medium, trace coarse sands, abundant mica. well rounded/sub-rounded	
35		7	42			(SM/ML) SANDY SILT - Light olive-brown. moist, dense, very fine to fine, trace clay	
40		8	63			(ML) SANDY SILT - Olive-brown. slightly moist, hard, very fine sands, trace fines. some clay	
45		9	50			(SP) SAND - Dark yellowish brown, moist. dense. very fine coarse sands	
50		10	50			(ML) SANDY SILT - Yellowish brown. moist. hard, very fine sands With clay	
55		11	44			Increase in sands (very fine to fine sands), black and sub-rounded/sub-angular	
60							

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB2
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 2 of 3
C-7

Drafted By: G. GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
65		12	50		(SM/ML) SILTY SAND - Light olive-gray, moist, dense, very fine sands. black organics present, iron oxidation present		
65		13	50		(SM) SILTY SAND - Yellowish-brown, moist, dense. very fine to fine sands. abundant mica		
70		14	50		(ML) SILT WITH SAND AND SOME CLAY - Olive-gray, moist, hard. very fine sands. iron oxidation and organics present		
75		15	55		CLAYEY SILT - Light olive, moist, hard. trace very fine sands, iron oxidation and black organics present		
80		16	45		Increasing sands SANDY SILT - Light olive, moist, hard. very fine sands. abundant mica		
85		17	50/6"		Increase in sands Olive-brown		
90		18	28		(SP) SAND - Dark brown, wet. medium dense, very fine to medium sands. abundant mica		
Well completed at a depth of approximately 90 feet below existing site grade							

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB2
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 3 of 3
C-7

Drafted By: G GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Surface Conditions: Dirt road

Date Completed: 8/11/2006

Groundwater: Groundwater encountered at a depth of approximately 9.5 feet below existing site grade.

Logged By: CD

Method: Hollow Stem Auger

Total Depth: 100 feet

Equipment: BK-81

Boring Diameter: 8"

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION	Well Const.
			Blows/ft	PID (ppmv)			
0 - 5	Hand auger	1	23			(ML) SILT - Dark brown, dry. trace very fine sands, trace clay. organics	
5 - 10		2	34			(ML) SANDY SILT - Yellowish brown, moist. very stiff. very fine sands. organics present, some clay	
10 - 15		3	42			(SM) SAND WITH SILT - Yellowish brown, moist. medium dense, very fine to fine sands	
15 - 20		4	58			(SP) SAND - Yellowish brown. moist. dense. very fine to fine sands. less silty	
20 - 25		5	50/4"			Increasing in fines (ML) SILTY SAND - Pale olive-gray, moist. medium dense. very fine to coarse sand, trace fine gravel (ML) SILT WITH SAND - Light olive-brown. moist, hard, very fine sands. some clay	
25 - 30						SANDY SILT - Olive-brown. moist. hard. very fine sands, abundant mica	

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LOG OF WELL SB3
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 4
C-8

Drafted By: G. GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: ST06G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
30		6	56				
35		7	49				
40		8	83				
45		9	50				
50		10	64				
55		11	58				
60							

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB3
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 2 of 4
C-8

Drafted By: G GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
		12	39			(SM/SP) SAND - Brown, moist, dense, very fine to fine sands. trace silts	
65		13	50/6"			(ML) SILT WITH CLAY - Light brown/brown, moist, moderately cemented, very fine sands (trace). dark brown mottling	
70		14	50/6"			(ML/CL) SILTY WITH CLAY - Gray-brown, slightly moist, weakly/moderately cemented, iron oxidation veins (interbedded medium sand layers)	
75		15	66			SILT SOME CLAY - Pale olive, slightly moist, hard, very fine sands (trace), iron oxidation present and abundant mica	
80		16	50/6"			(ML) SANDY SILT - Olive-brown, moist, hard, very fine to fine sands, trace clay, iron oxidation present, weakly cemented	
85		17	69			(SM) SILTY SAND - Dark yellow-brown, moist, very dense, very fine to fine sands. abundant mica, moderately cemented	
90		18	50/5"				

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LOG OF WELL SB3
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 3 of 4
C-8

Drafted By: G GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const.
		Sample No.	Blows/ft	PID (ppmv)			
95		19	50/5"				
100							
105							
110							
115							
120							
Well completed at a depth of approximately 100 feet below existing site grade.							

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL. SB3
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 4 of 4

C-8

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Surface Conditions: Dirt road

Date Completed: 8/14/2006

Groundwater: No free groundwater encountered.

Logged By: CD

Method: Hollow Stem Auger

Total Depth: 96.5 feet

Equipment: BK-81

Boring Diameter: 8"

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
5		1	65			(ML) SILT WITH SAND - Light olive-brown, moist, hard, very fine sands, black organics and iron oxidation	
10		2	21			SANDY SILT - Light olive-gray, moist, hard, very fine to medium sands, trace coarse sands	
15		3	49			Light brown, less coarse, increasing in fines	
20		4	50/6"			(ML/SM) SANDY SILT - Light olive-gray, slightly moist, hard, moderately cemented, very fine to fine sands, brown mottling	
25		5	45			(SP/SM) SAND WITH SILT - Light olive-brown, moist, dense, very fine to medium sands, abundant	

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LOG OF WELL SB4
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 4
C-9

Drafted By: G. GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
30		6	39		(ML) SILT - Light olive-gray, moist, hard, very fine sands. iron oxidation veins, some sands		
35		7	38		(SM) SANDY SILT - Olive-brown/yellow-brown, moist, dense. very fine to fine sands. brown mottling		
40		8	16		(SP) SAND - Dark brown/yellow-brown. moist. medium dense, trace sands		
45		9	10		Dark yellow-brown, loose, fine to coarse sands, trace coarse gravel. fines. well rounded		
50		10	66		(SM) SILTY SAND - Brown/dark yellow-brown, very dense, very fine to fine sands. iron oxidation present, weak to moderately cemented		
55		11	50/6"		(ML) SILT WITH SAND AND CLAY - Slightly moist, hard, moderate cementation, very fine to fine sands, black organics and iron oxidation		
60							

SAC 2005 ST06G031-2.GPJ 1/5/07



LOG OF WELL SB4
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
2 of 4

C-9

Drafted By: G GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: ST06G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
65		12	50/6"			(SM) SILTY SAND - Brown, moist, dense, well. cemented, very fine to fine sands, white veins present	
		13	80			(ML) SANDY SILT - Light olive-gray, slightly moist, hard. weak cementation. very fine to fine sands, trace coarse sands. some clay	
70		14	50/6"			(SM) SILTY SAND - Dark yellow-brown, moist. dense, veins of moderate cementation, very fine to fine sands. abundant mica, interbedded moderate cementation, silt layer	
75		15	50/6"			(ML) SILT WITH CLAY - Pale olive/olive yellow. moist. hard, moderate cementation. trace very fine sands	
80		16	37			Increasing sands (SM) SILTY SAND - Pale olive-gray, moist, dense. very fine sands, iron oxidation present. abundant mica	
85		17	50/6"			(ML) SANDY SILT - Light olive-brown. moist, hard, strongly to moderately cemented, very fine sands, iron oxidation in veins, abundant mica	
90		18	50/6"			SILT WITH CLAY - Light brown, moist, hard, moderate to strongly cemented, very fine sands. black organics and iron oxidation present	

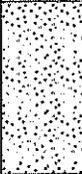
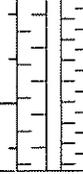
SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB4
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 3 of 4
C-9

Drafted By: G GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
95		19	50/6"			(SP) SAND - Brown, wet, dense/very dense, very fine to coarse sands, trace fine gravel	
100							
105							
110							
115							
120							
						Well completed at a depth of approximately 96.5 feet below existing site grade	

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB4
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
4 of 4

C-9

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Surface Conditions: Dirt road

Groundwater: Groundwater encountered at a depth of approximately 95.3 feet below existing site grade.

Method: Hollow Stem Auger

Equipment: BK-81

Date Completed: 8/15/2006

Logged By: CD

Total Depth: 96.5 feet

Boring Diameter: 8"

Depth (feet)	Sample Type	Sample No.	Blows/ft	PID (ppmv)	Graphic Log	FIELD	
						DESCRIPTION	Well Const
0 - 5	Hand auger	1	50/6"			(CL) SILTY CLAY - Brown/dark brown, dry/slightly moist, moderately cemented to strong. little of no sand, organics present	
5 - 10		2	31			(SM) SILTY SAND - Dark yellow-brown, slightly moist, dense, weakly cemented. very fine to fine sands. white veins and iron oxidation present	
10 - 15		3	50/6"			(SP) SAND - Dark yellow-brown, moist, medium dense, very fine to medium sands. trace fine gravel. some silt present	
15 - 20		4	57			(ML) SANDY SILT - Yellow-brown, slightly moist, hard, weakly cemented, very fine to fine sands, olive gray mottling	
20 - 25		5	54			(SM/ML) SANDY SILT - Yellow-brown, slightly moist, hard, weakly cemented, very fine to fine sands, trace coarse sands	
25 - 96.5						(SM) SILTY SAND - Olive-gray, moist, dense, weak cementation. very fine to fine sands. iron oxidation veins (abundant). abundant mica. (increasing silts in veins)	
						Increasing sands	

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LOG OF WELL SB5
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 4
C-10

Drafted By: G GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
30		6	39			(ML) SILT WITH CLAY - Yellow-brown, moist, hard, weak/moderately cemented. trace very fine sands, slightly plastic, iron oxidation veins present	
35		7	50			(SM) SILTY SAND - Yellow-brown, moist, dense, very fine to fine sands	
40		8	20			(SP) SAND - Dark yellow-brown, moist, medium dense, very fine to medium sands, trace silts	
45		9	66			Decreasing some sands (ML) SANDY SILT - Olive-gray, moist, hard, weakly cemented, very fine sands, iron oxidation mottling, some fine sands	
50		10	55			(SM) SILTY SAND - Dark yellow-brown, moist, dense, very fine to coarse sands, white veins present	
55		11	50/6"			(ML) SILT WITH SAND AND CLAY - Brown, slightly moist, hard, moderately cemented, very fine sands	
60							

SAC 2005 ST06G031-2.GPJ 1/5/07



KLEINFELDER

LOG OF WELL SB5
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
2 of 4

C-10

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: ST06G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const.
		Sample No.	Blows/ft	PID (ppmv)			
		12	64			SANDY SILT - Yellow-brown, moist, hard, moderate to weak cementation, very fine sands. iron oxidation in veins, some strong cementation	
65		13	55			(SM) SAND WITH SILT - Light yellow-brown, very moist, dense, very fine sands. abundant mica, iron oxidation mottling	
70		14	50/6"			(ML) SANDY SILT - Light olive-brown, slightly moist, hard, moderately cementation, very fine to fine sands, iron oxidation present in veins, interbedded layers of silty sand (2") abundant mica	
75		15	49			(SP) SAND - Light brown-gray, moist, dense, very fine to fine sands. abundant mica	
80		16	68			(ML) SANDY SILT - Grayish brown. moist, hard, weak cementation, very fine sands, abundant mica	
85		17	50/6"			(SP) SAND - Light yellow-brown, moist, very dense, very fine to medium sands, trace coarse sands	
90		18	50/6"			(ML) SILT - Light olive-brown. moist. hard. weak cementation, some very fine sands, some clay	
						(SM) SAND WITH GRAVEL - Light olive-brown. moist. dense, very fine to coarse sand, fine gravel, sub-rounded/rounded, some silts	
						(ML) SILTY WITH SAND - Olive-brown, moist, hard, very fine sands, abundant oxidation present (veins)	

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LOG OF WELL SB5
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 3 of 4

C-10

Drafted By: G. GOMEZ Project No.: 63138
 Date: 1/5/2007 File Number: ST06G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
95		19	22	▼			
						No sample, no recovery	
						Well completed at a depth of approximately 96.5 feet below existing site grade.	
100							
105							
110							
115							
120							

SAC 2005 ST06G031-2.GPJ 1/5/07



LOG OF WELL SB5
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 4 of 4

C-10

Drafted By: G. GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: ST06G031-2

Surface Conditions: Dirt road

Date Completed: 8/14/2006

Groundwater: Groundwater encountered at a depth of approximately 93 feet below existing site grade.

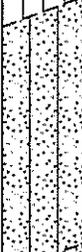
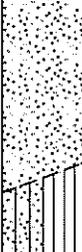
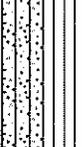
Logged By: CD

Method: Hollow Stem Auger

Total Depth: 95 feet

Equipment: BK-81

Boring Diameter: 8"

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION	Well Const.
			Blows/ft	PID (ppmv)			
0 - 5	Hand auger	1	29			(CL) SILTY CLAY - Brown/dark brown, dry/slightly moist, moderately cemented. little of no sand (very fine), organic material present	
5 - 10		2	34			(ML) SILT WITH CLAY - Brown, moist, very stiff. very fine sands. black organics present, some sands	
10 - 15		3	25			(SM) SILTY SAND - Dark yellowish brown, moist, medium dense, weakly cemented. very fine to fine sands. iron oxidation mottling	
15 - 20		4	12			(SP) SAND - Dark brown/brown, moist, medium dense, very fine to medium sands, trace coarse. olive gray mottling	
20 - 25		5	32			Brown/yellow-brown. loose. very fine to fine sands. poorly sorted	
25 - 30						(SM/ML) SILTY SAND - Light olive-brown, moist, medium dense, very fine sands. abundant mica	

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB6
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 1 of 4
C-11

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: STO6G031-2

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION	Well Const
			Blows/ft	PID (ppmv)			
30		6	86			SILT WITH SAND - Brown, hard, moderate cementation, very fine sands, black mottling, some clay	
35		7	39			(ML) SANDY SILT - Dark yellowish brown, moist/very moist, hard, very fine to fine sands, black organics mottling, trace clay	
40		8	50/6"			(SP) SAND - Dark yellow-brown, moist, medium dense, very fine to coarse, trace fine gravel	
45		9	50/6"			(ML) SANDY SILT - Yellow-brown, moist, hard, very fine sands, abundant mica Some clay, strong brown, black organic mottling	
50		10	49			(SM) SILTY SAND - Dark yellowish brown, moist, dense, very fine to fine sands, black mottling	
55		11	74			(ML) SILT WITH SAND AND SANDY CLAY - Brown, slightly moist, hard, moderate cementation, very fine to fine sands, organic mottling	
60							

SAC 2005 ST06G031-2.GPJ 1/5/07



LOG OF WELL SB6
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
2 of 4

C-11

Drafted By: G GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: ST06G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
65		12	78			SANDY SILT - Brown, moist, hard, weak/moderate cementation, very fine to fine sands, iron oxidation mottling, slight plasticity, trace clay Decreasing sands	
		13	55			Weak cementation, very fine sands Interbedded layers of clayey silt, gray/black mottling, very moist	
70		14	64			(SM) SILTY SAND - Brown, moist, very dense, weak to moderate cementation, very fine to fine sands, some interbedded sandy silts (1 - 2" thick)	
75		15	50/6"			(SP) SAND - Brown/gray, moist, very dense, very fine to fine sands, poorly graded. little or no silts	
80		16	50/6"			Olive-gray, dense, very fine to medium sands Some interbedded silty sands (1 - 2" thick)	
85		17	50/6"			(SM/ML) SANDY SILT - Pale or gray, slightly moist, hard, moderate cementation, very fine to medium sands	
90		18	50/6"			(SP) SAND - Olive-brown, moist, dense, weak cementation, very fine to fine sands, abundant mica	

SAC 2005 ST06G031-2.GPJ 1/5/07

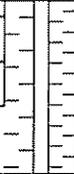


LOG OF WELL SB6
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
3 of 4

C-11

Drafted By: G. GOMEZ Project No: 63138
 Date: 1/5/2007 File Number: ST06G031-2

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION	Well Const
		Sample No.	Blows/ft	PID (ppmv)			
95		19	50/6"			Wet. very fine to medium sands, layers of very fine and medium sands	
100						Well completed at a depth of approximately 95 feet below existing site grade	
105							
110							
115							
120							

SAC 2005 STO6G031-2.GPJ 1/5/07



LOG OF WELL SB6
 ARBINI PROPERTY (APN 181-030-01)
 MARIPOSA LAKES DEVELOPMENT
 STOCKTON, CALIFORNIA

PLATE
 4 of 4

C-11

Drafted By: G GOMEZ Project No : 63138
 Date: 1/5/2007 File Number: STO6G031-2

Appendix D



October 5, 2006

Kleinfelder, Inc.
Attn: Joseph D. Zilles, PG
2825 East Myrtle Street
Stockton, CA 95205-4794

RECEIVED

OCT 16 2006

STL Project No: **06-300**
Subject: **Mariposa Lakes (Albini)**
Project No.: **63138.H01**
Invoice No: **4032**

KLEINFELDER, INC.

LABORATORY TEST RESULTS

Dear Mr. Zilles:

As requested, Sierra Testing Laboratories, Inc. performed laboratory testing on **thirty samples** of material from the subject site. The samples were identified as:

- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. SB1, 8/10/06, 5' | 11. SB3, 8/11/06, 5' | 21. SB5, 8/15/06, 5' |
| 2. SB1, 8/10/06, 15' | 12. SB3, 8/11/06, 15' | 22. SB5, 8/15/06, 15' |
| 3. SB1, 8/10/06, 25' | 13. SB3, 8/11/06, 25' | 23. SB5, 8/15/06, 25' |
| 4. SB1, 8/10/06, 35' | 14. SB3, 8/11/06, 35' | 24. SB5, 8/15/06, 35' |
| 5. SB1, 8/10/06, 45' | 15. SB3, 8/11/06, 45' | 25. SB5, 8/15/06, 45' |
| 6. SB2, 8/10/06, 5' | 16. SB4, 8/14/06, 5' | 26. SB6, 8/14/06, 5' |
| 7. SB2, 8/10/06, 15' | 17. SB4, 8/14/06, 15' | 27. SB6, 8/14/06, 15' |
| 8. SB2, 8/10/06, 25' | 18. SB4, 8/14/06, 25' | 28. SB6, 8/14/06, 25' |
| 9. SB2, 8/10/06, 35' | 19. SB4, 8/14/06, 35' | 29. SB6, 8/14/06, 35' |
| 10. SB2, 8/10/06, 45' | 20. SB4, 8/14/06, 45' | 30. SB6, 8/14/06, 45' |

Our laboratory received the samples on **August 17, 2006**. The test performed on the submitted samples was as follows:

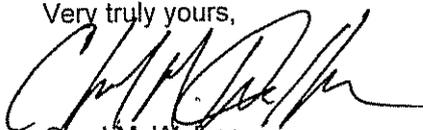
1) Flexible Wall Permeability (ASTM D5084)

The results of the above referenced testing are presented on the attached figure(s).

We appreciate the opportunity to be of service to you on this project and look forward to providing additional service, as needed, in the future.

Should you have any questions or require additional information, please contact our office at your convenience.

Very truly yours,



Chad M. Walker
Project Manager

Enclosure(s)
mo

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB1
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 5
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 2.83E-04

Average Hydraulic Gradient: 11.3

Effective Cell Pressure, psi: 10

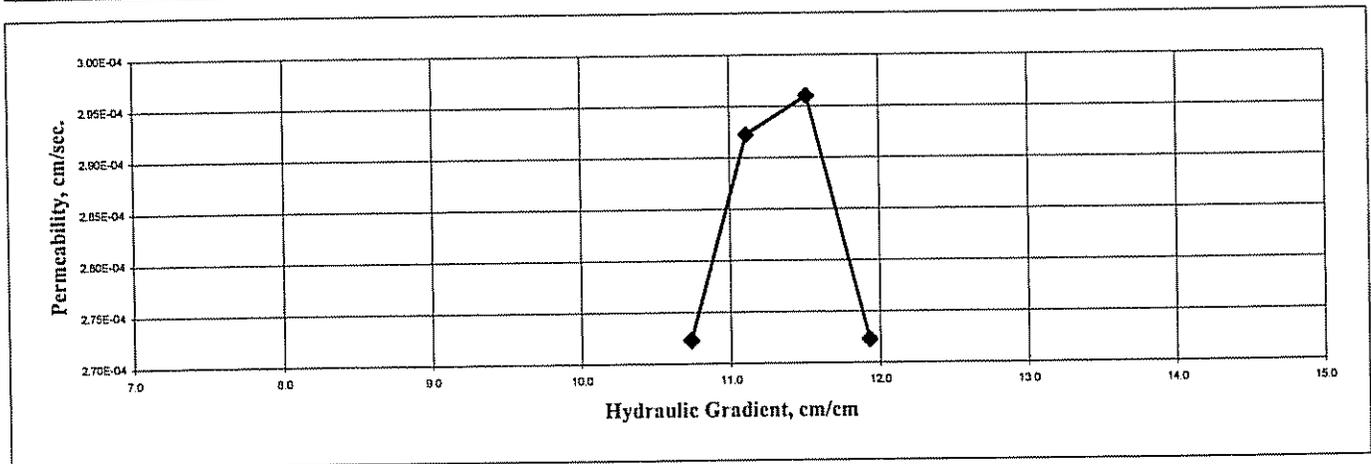
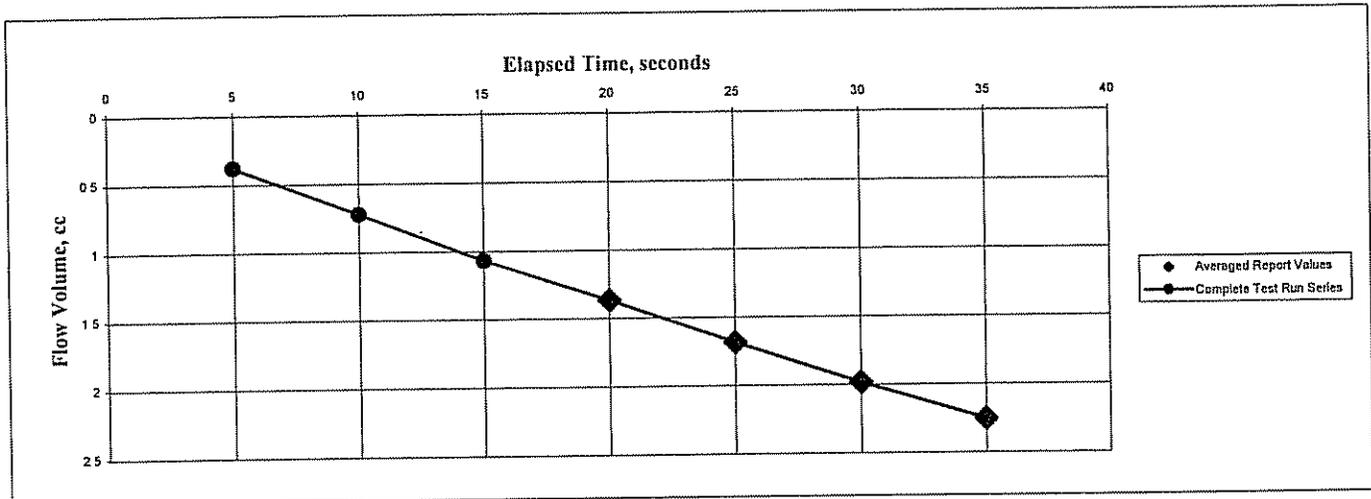
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 97.1
 Moisture Content, % 17.0
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.03
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 99.1
 Moisture Content, % 26.9



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd, El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB1

Sample Depth, ft.: 15

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 6.31E-06

Average Hydraulic Gradient: 3.6

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 101.0

Moisture Content, % 22.7

Specific Gravity, Assumed

Percent Saturation:

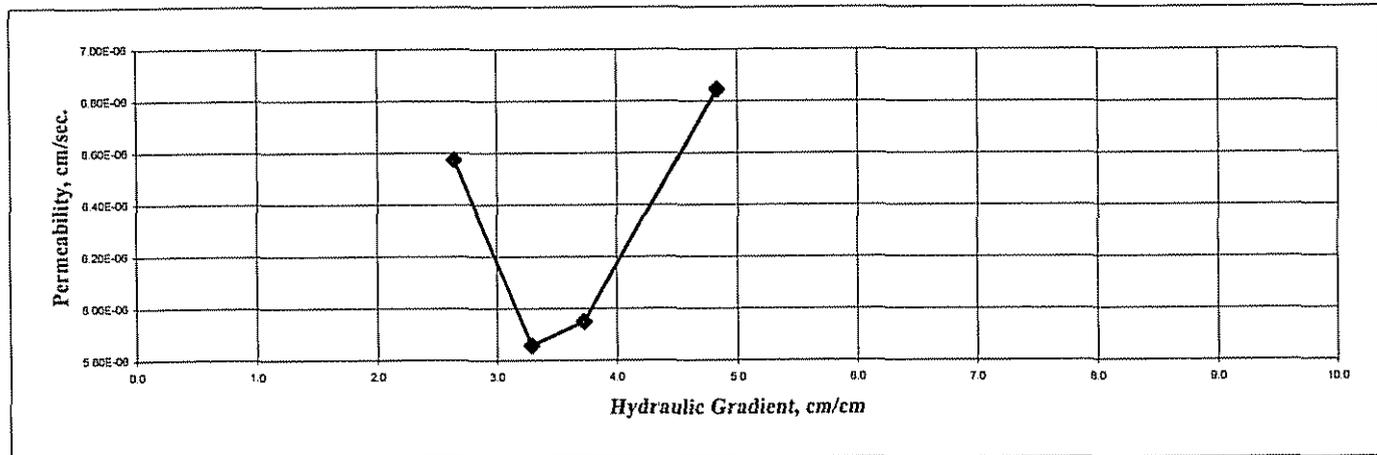
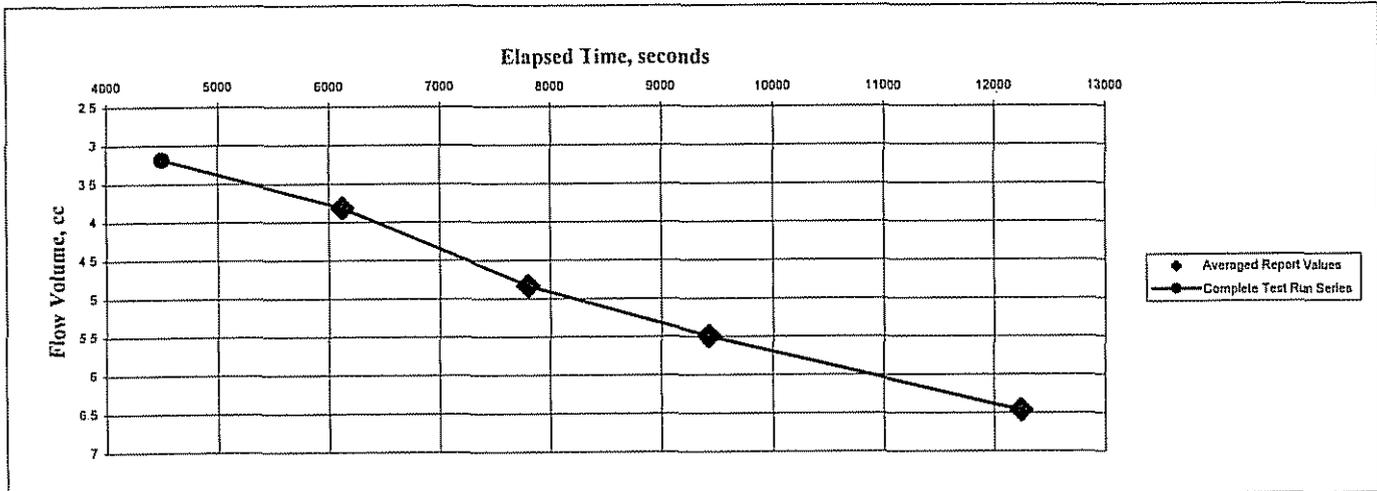
After Test

Specimen Height, cm: 5.05

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 102.6

Moisture Content, % 25.8



Test Method: ASTM D5084 Method C

PROJECT NUMBER:

06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB1
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 25
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 2.57E-03

Average Hydraulic Gradient: 6.0

Effective Cell Pressure, psi: 10

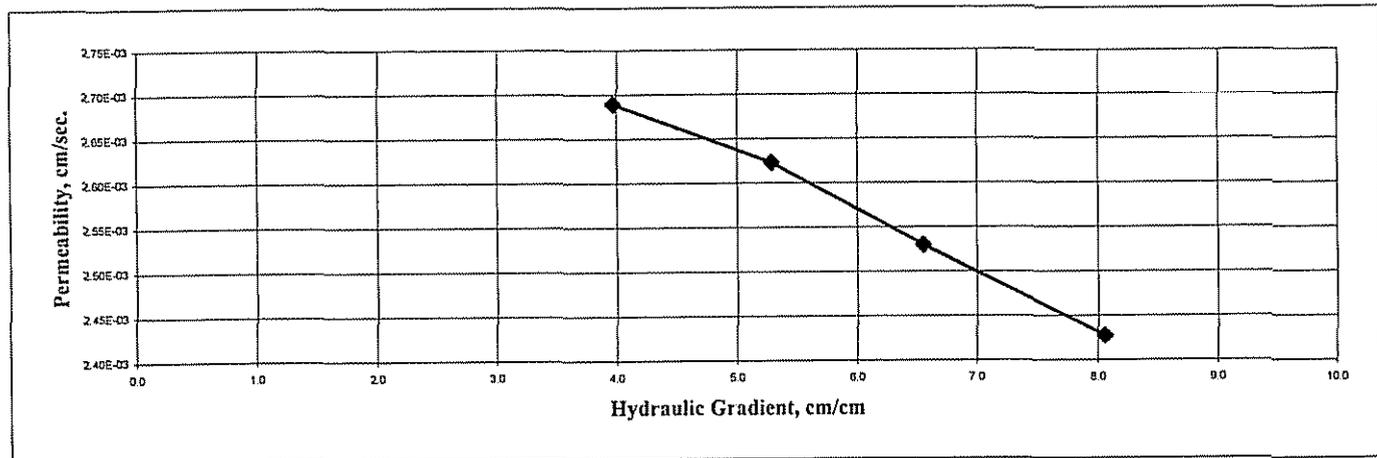
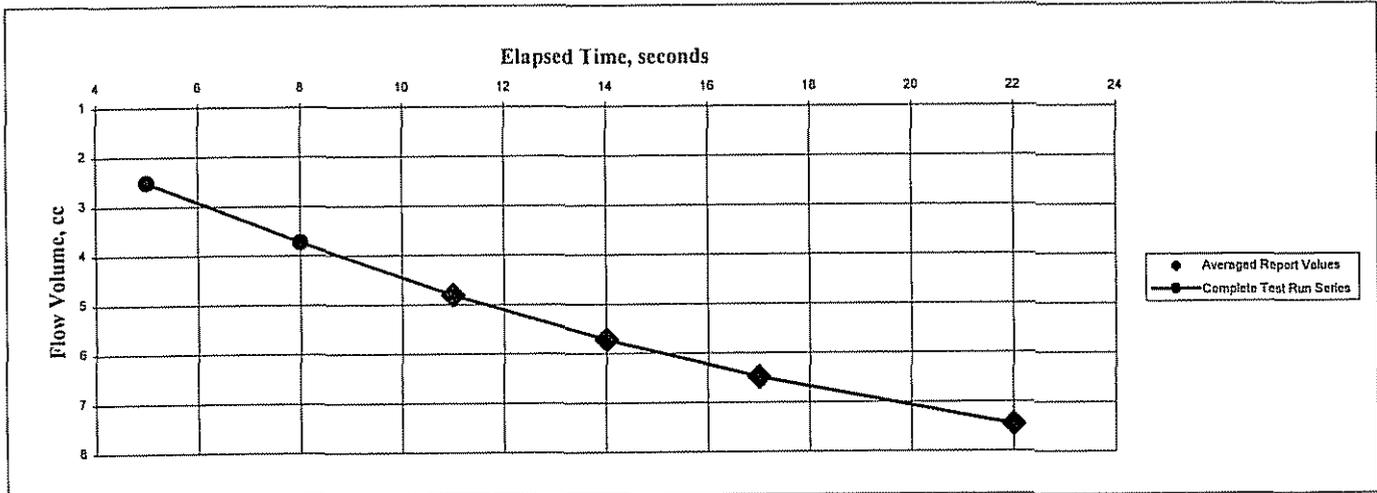
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 89.3
 Moisture Content, % 16.1
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 4.42
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 87.4
 Moisture Content, % 24.1



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB1
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 35
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 3.96E-08

Average Hydraulic Gradient: 11.4

Effective Cell Pressure, psi: 10

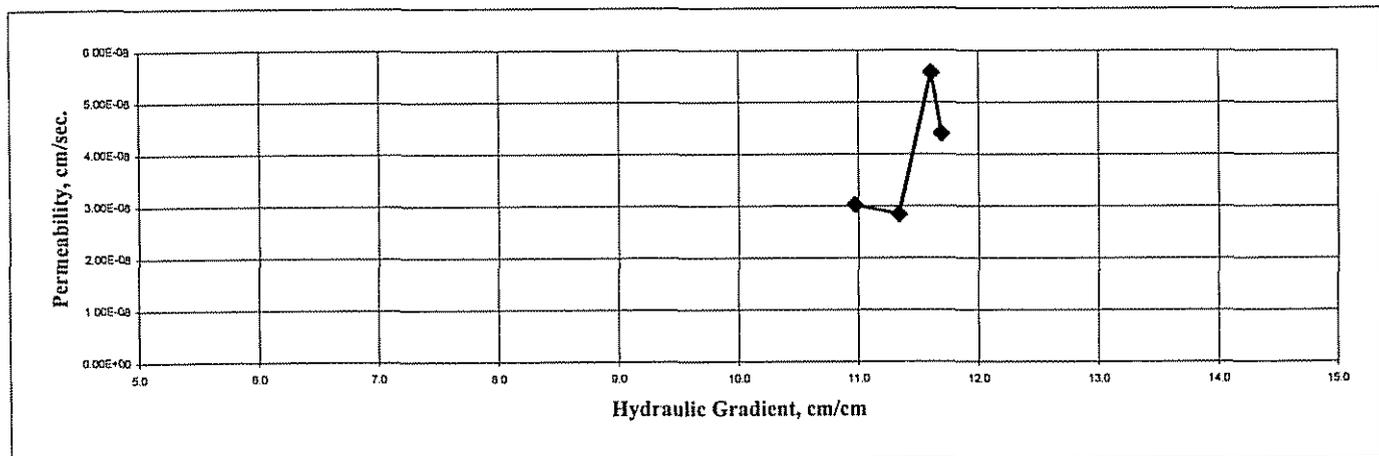
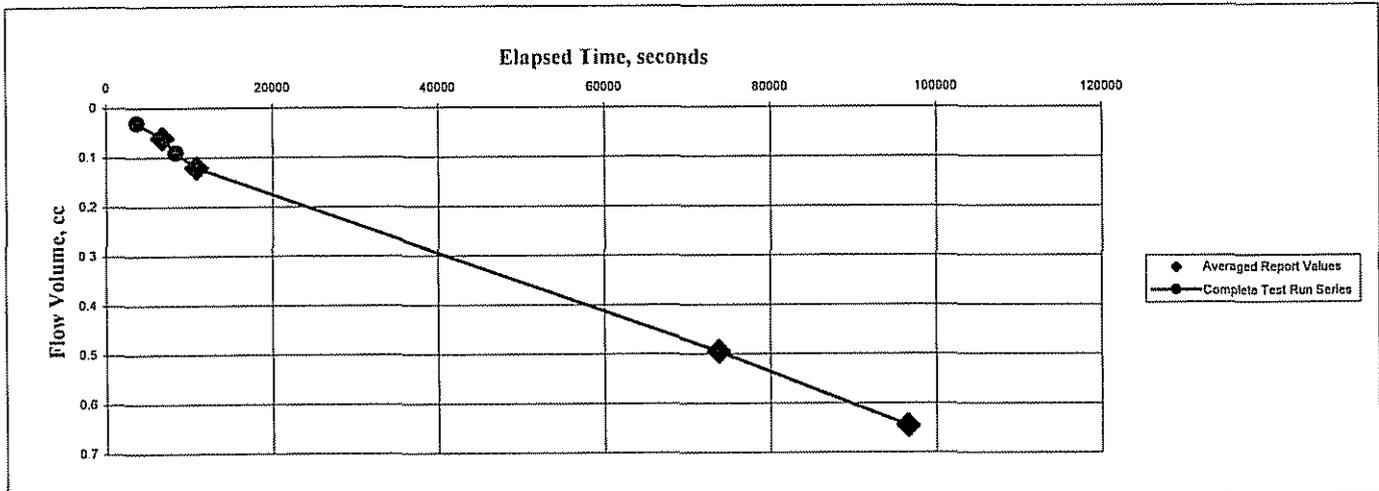
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 4.78
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 104.6
 Moisture Content, % 23.7
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 4.85
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 104.0
 Moisture Content, % 24.4



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd, El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB1
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 45
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 1.27E-06

Average Hydraulic Gradient: 8.3

Effective Cell Pressure, psi: 10

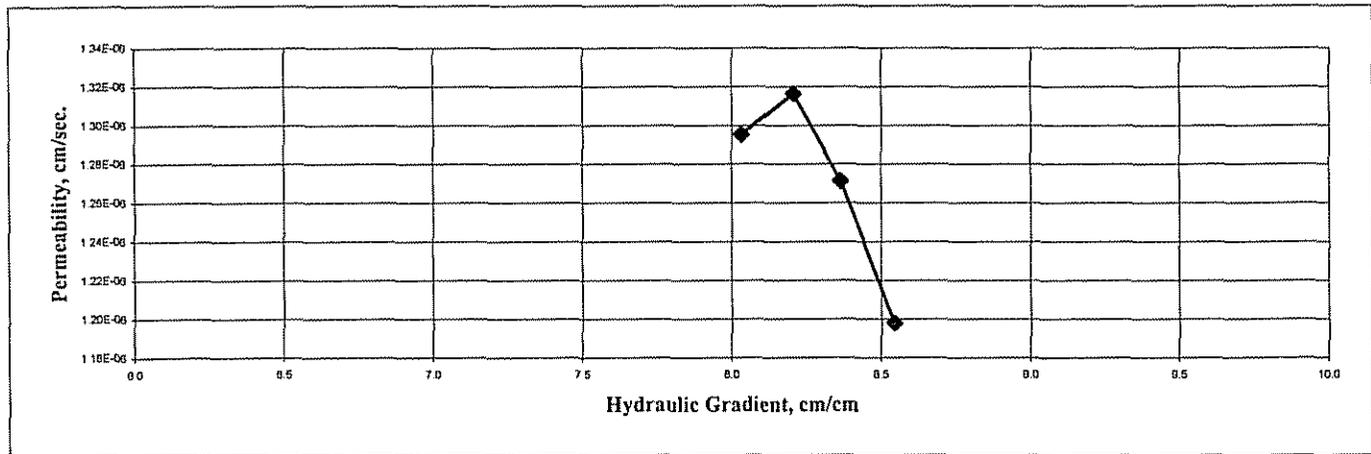
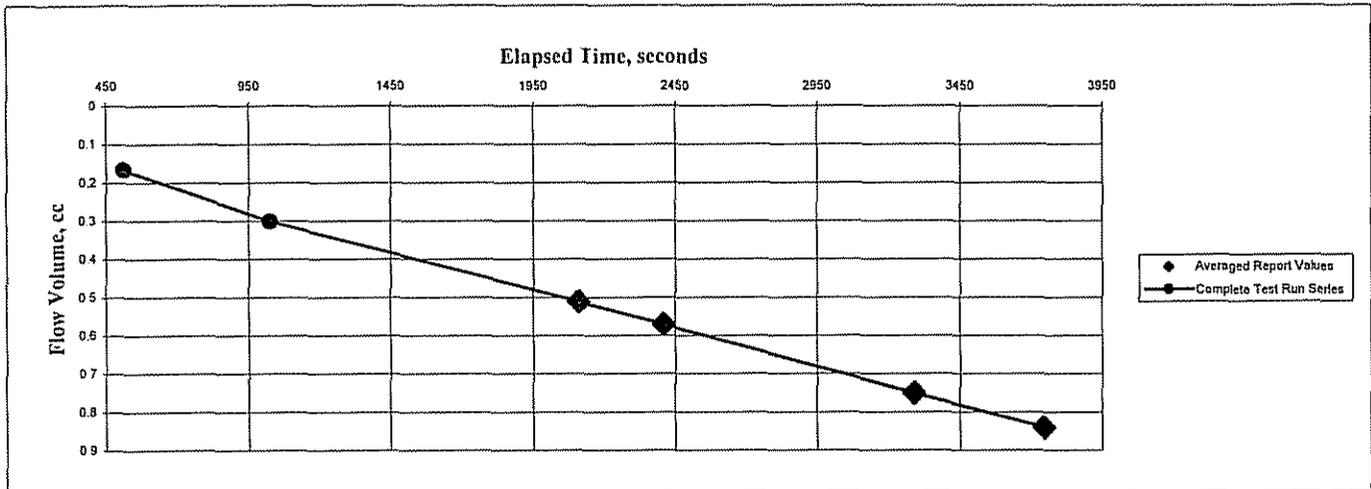
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 102.7
 Moisture Content, % 20.1
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 102.7
 Moisture Content, % 23.1



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB2

Sample Depth, ft.: 5

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 5.80E-05

Average Hydraulic Gradient: 6.4

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 6.30

Specimen Diameter, cm: 4.83

Dry Unit Weight, pcf: 105.6

Moisture Content, % 18.0

Specific Gravity, Assumed

Percent Saturation:

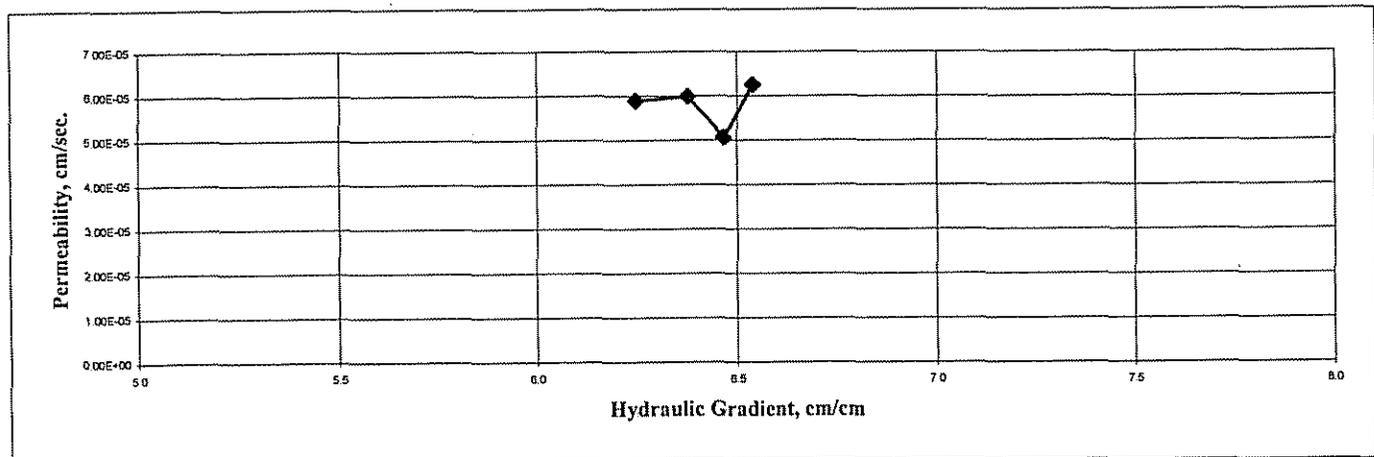
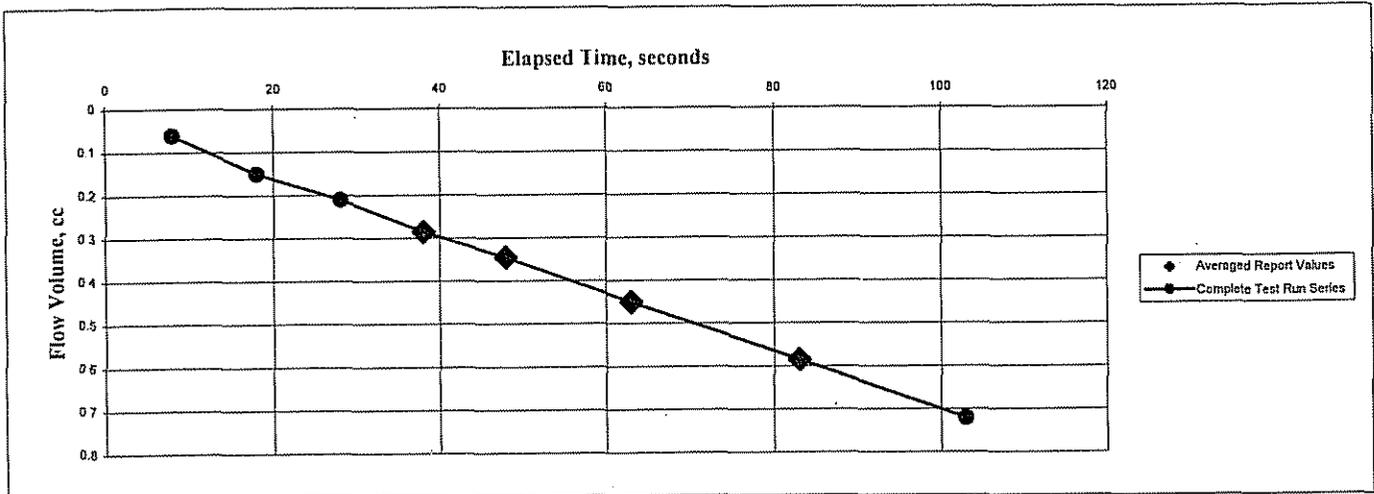
After Test

Specimen Height, cm: 6.17

Specimen Diameter, cm: 4.83

Dry Unit Weight, pcf: 106.7

Moisture Content, % 23.1



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB2
Visual Description: N/A
Remarks:

Sample Depth, ft.: 15
Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 9.79E-07

Average Hydraulic Gradient: 5.4

Effective Cell Pressure, psi: 10

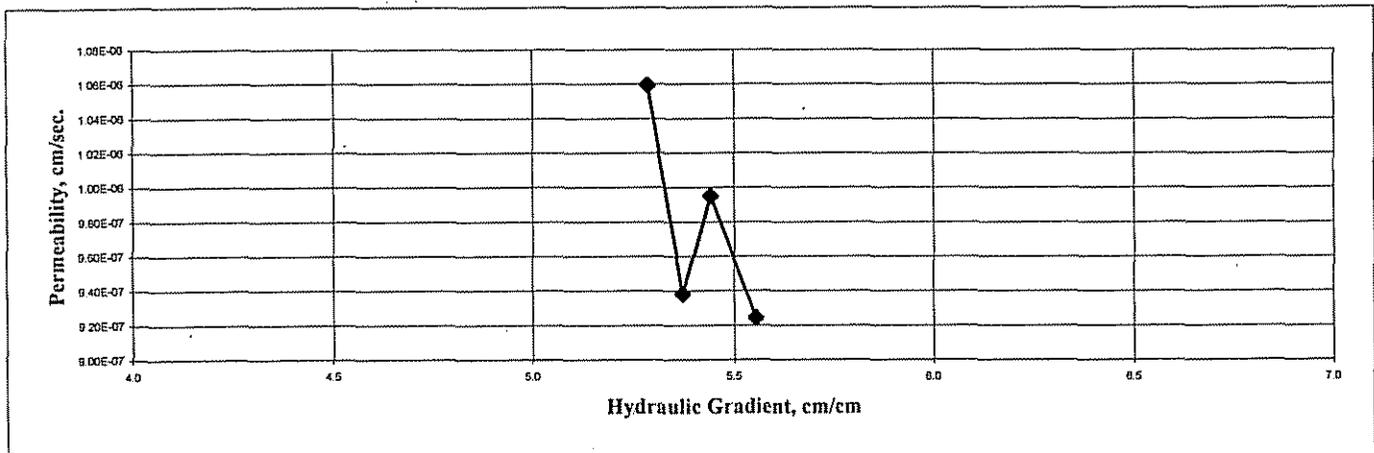
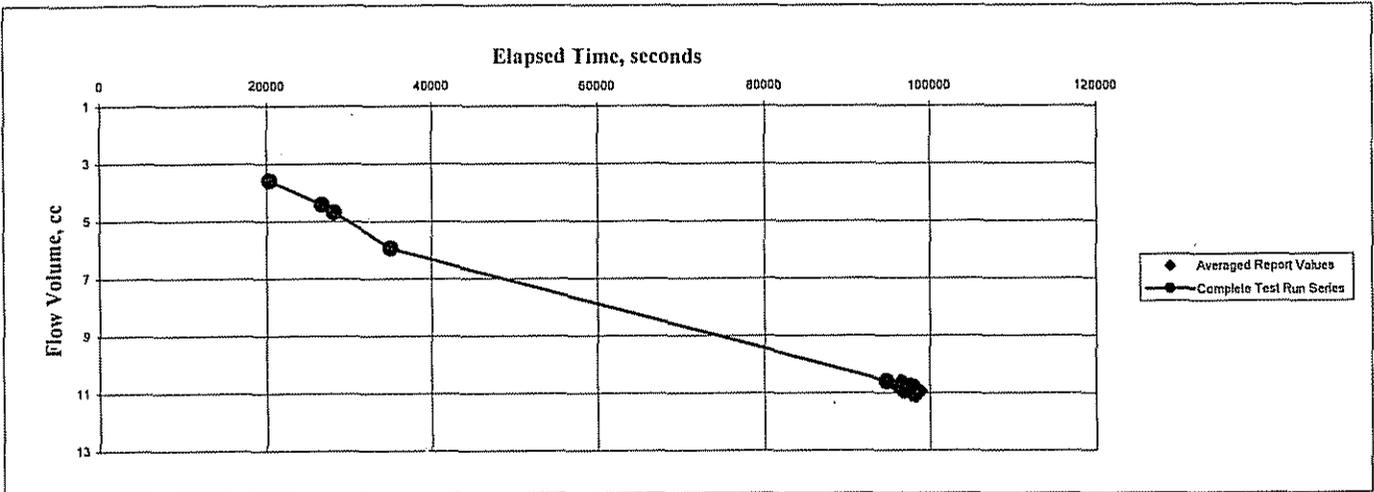
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.72
Specimen Diameter, cm: 4.85
Dry Unit Weight, pcf: 102.3
Moisture Content, % 24.8
Specific Gravity, Assumed
Percent Saturation:

After Test

Specimen Height, cm: 5.79
Specimen Diameter, cm: 4.85
Dry Unit Weight, pcf: 100.9
Moisture Content, % 27.3



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd, El Dorado Hills, CA 95762
Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB2

Sample Depth, ft.: 25

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 1.69E-06

Average Hydraulic Gradient: 3.5

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 102.2

Moisture Content, % 16.5

Specific Gravity, Assumed

Percent Saturation:

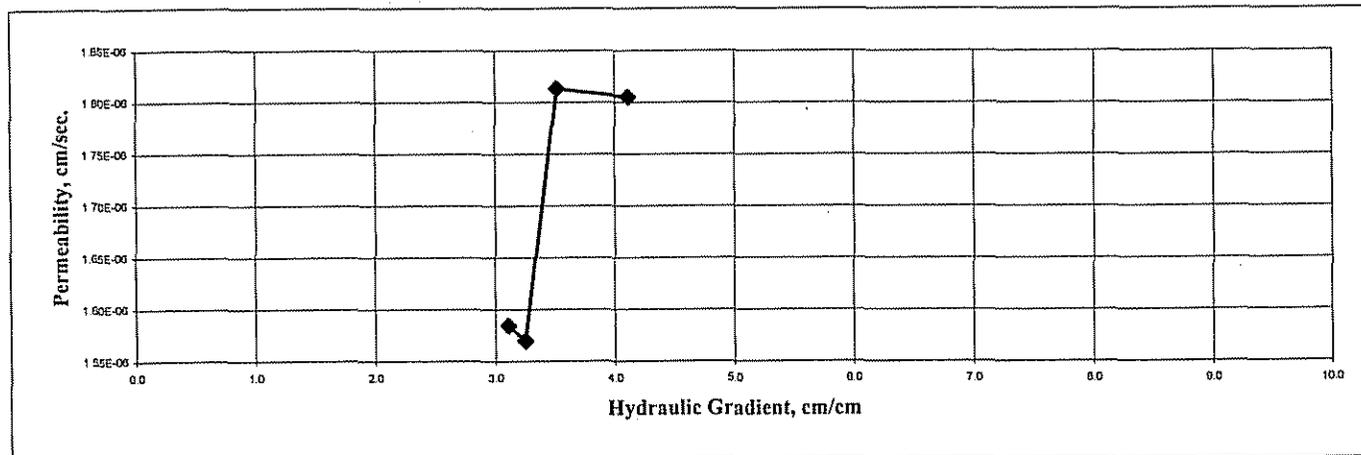
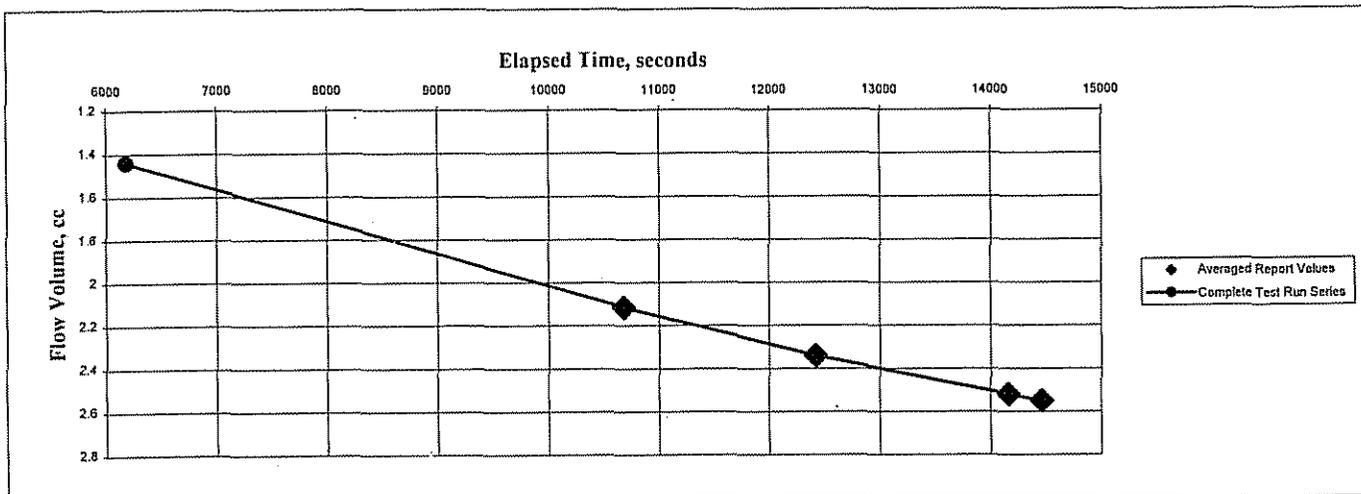
After Test

Specimen Height, cm: 5.05

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 103.8

Moisture Content, % 22.5



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J Mathews Blvd, El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB2

Sample Depth, ft.: 35

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 4.29E-07

Average Hydraulic Gradient: 7.4

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 107.8

Moisture Content, % 21.1

Specific Gravity, Assumed

Percent Saturation:

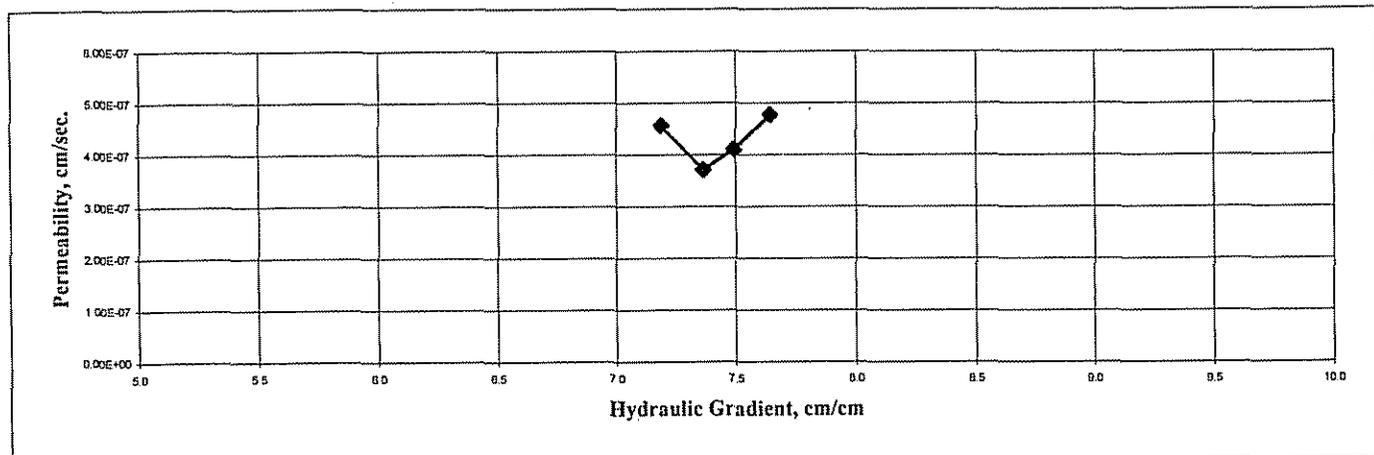
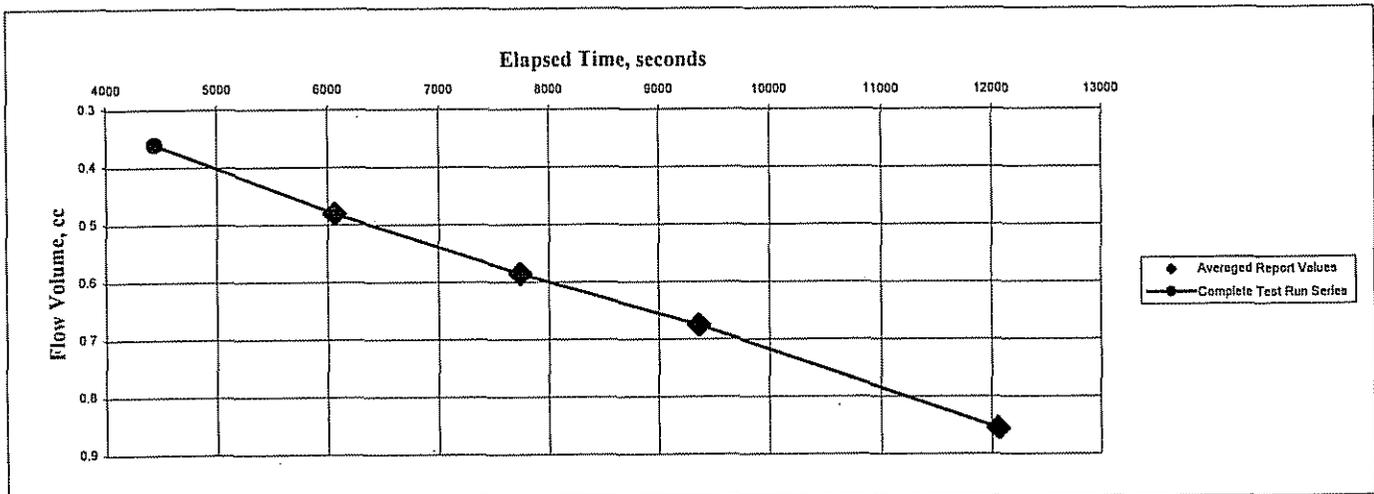
After Test

Specimen Height, cm: 5.05

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 109.4

Moisture Content, % 23.9



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes

SIERRA TESTING LABORATORIES, INC.
 GEOTECHNICAL AND MATERIALS TESTING SERVICES

5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB2
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 45
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 2.02E-03

Average Hydraulic Gradient: 4.7

Effective Cell Pressure, psi: 10

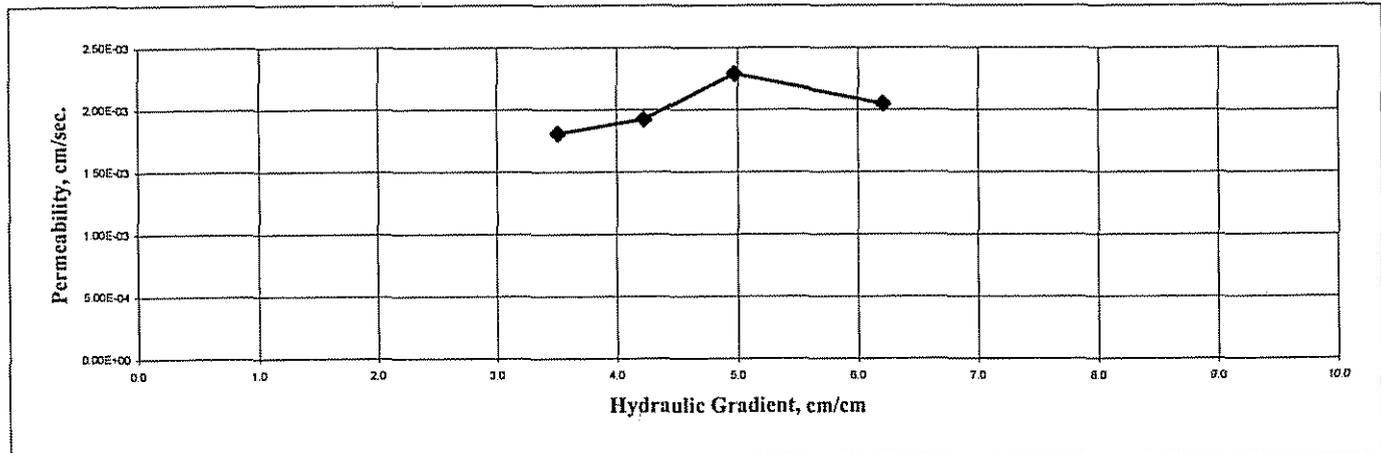
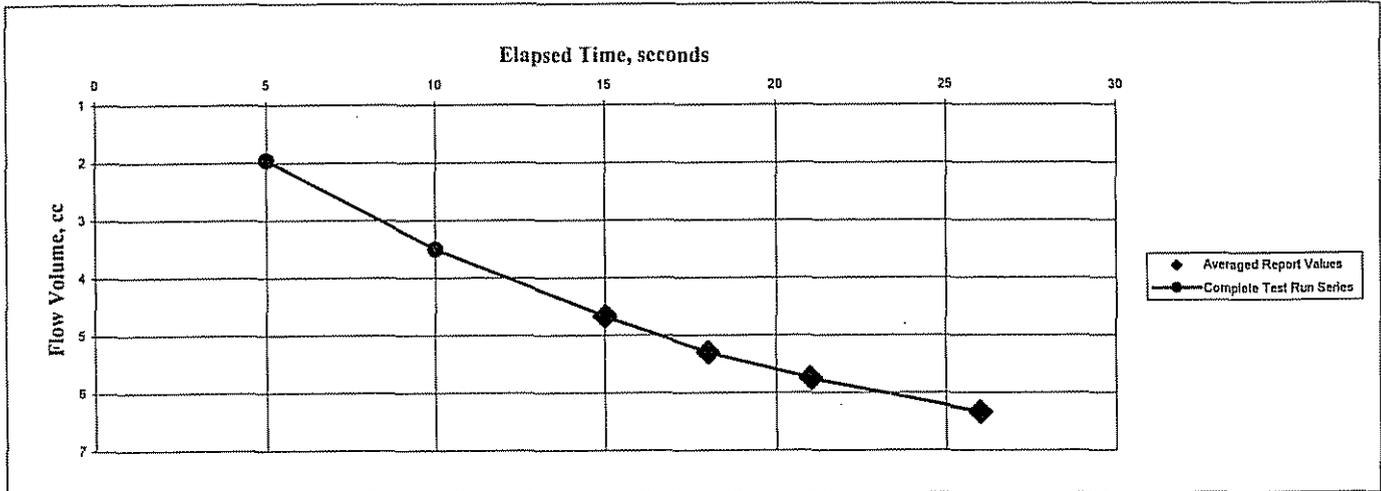
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 97.3
 Moisture Content, % 8.7
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 4.83
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 105.7
 Moisture Content, % 23.4



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB3
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 5
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: $4.95E-07$ Average Hydraulic Gradient: 8.5
 Effective Cell Pressure, psi: 10

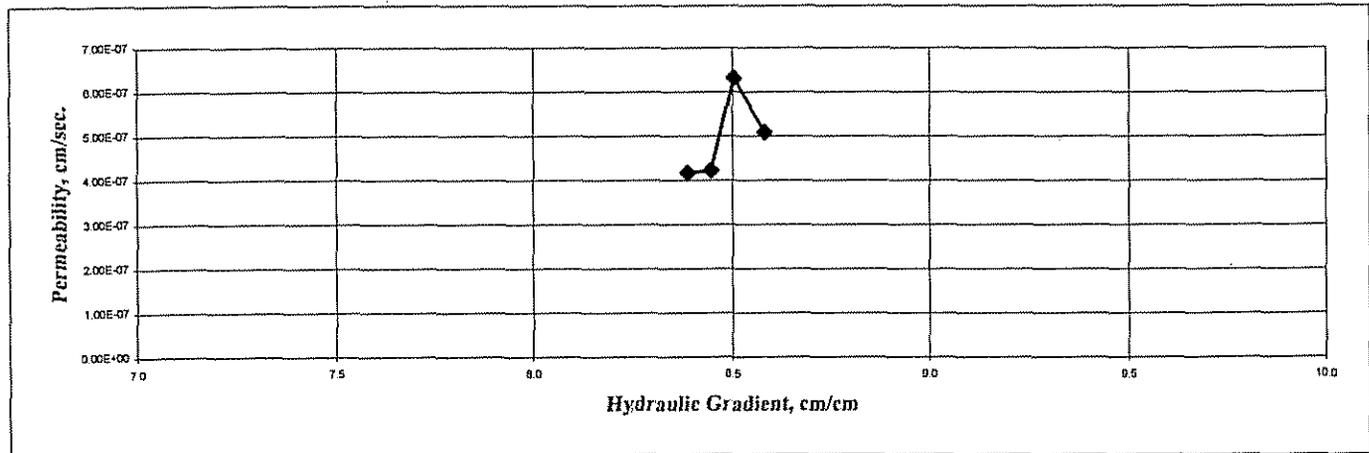
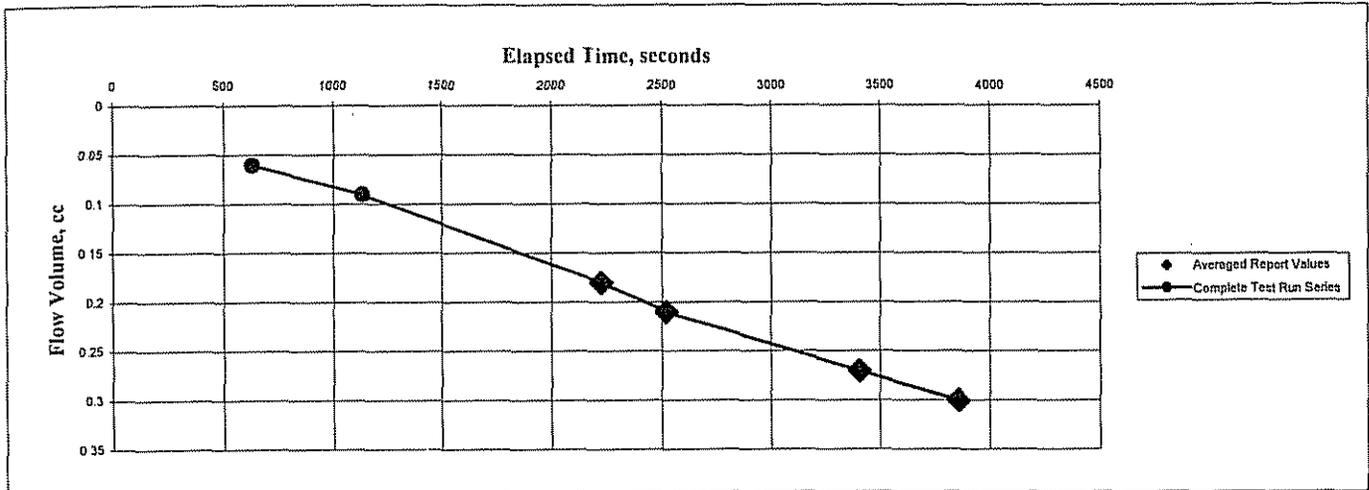
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 91.5
 Moisture Content, % 30.1
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 91.5
 Moisture Content, % 32.2



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB3

Sample Depth, ft.: 15

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 1.99E-03

Average Hydraulic Gradient: 3.7

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 100.9

Moisture Content, % 9.6

Specific Gravity, Assumed

Percent Saturation:

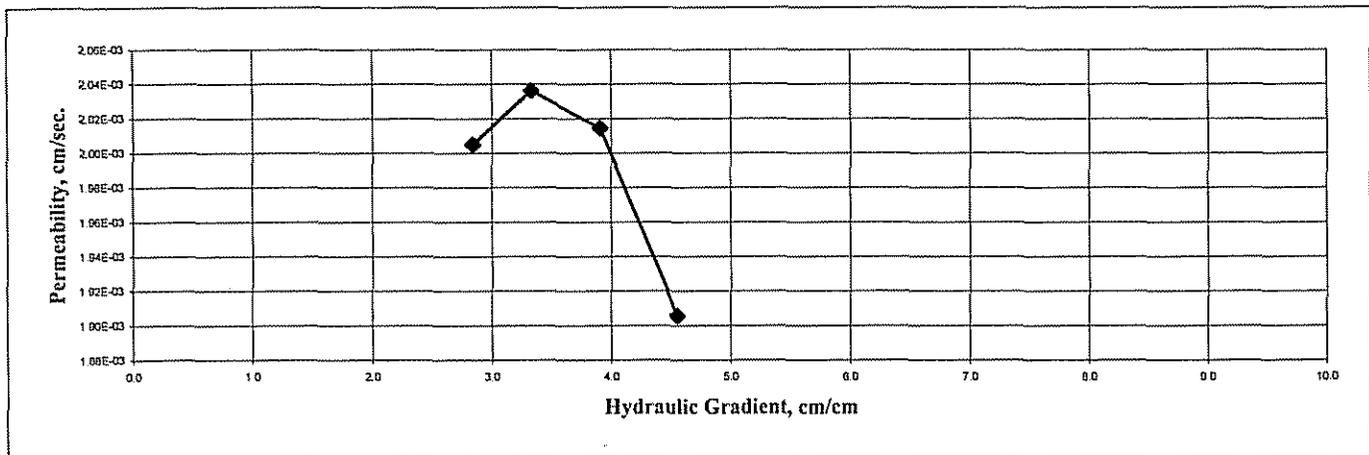
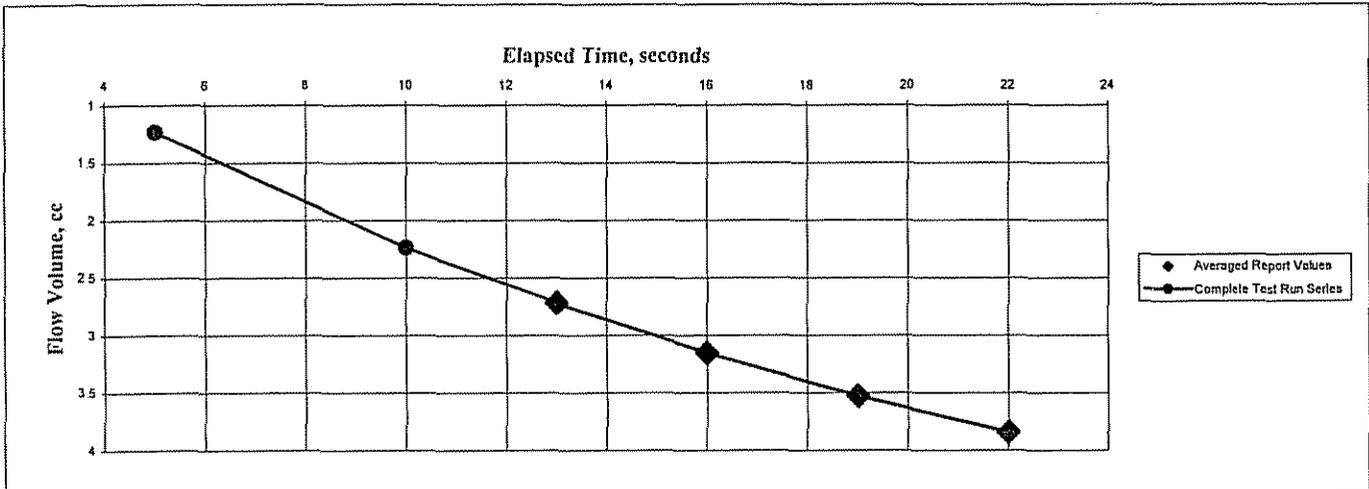
After Test

Specimen Height, cm: 4.70

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 110.2

Moisture Content, % 24.0



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd, El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB3
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 25
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 2.66E-04

Average Hydraulic Gradient: 6.0

Effective Cell Pressure, psi: 10

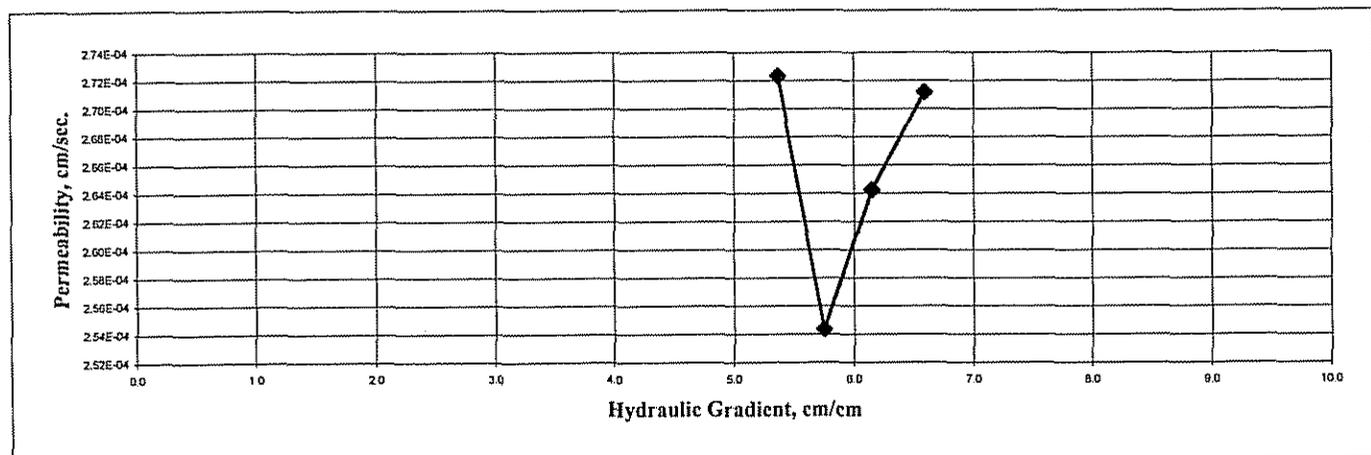
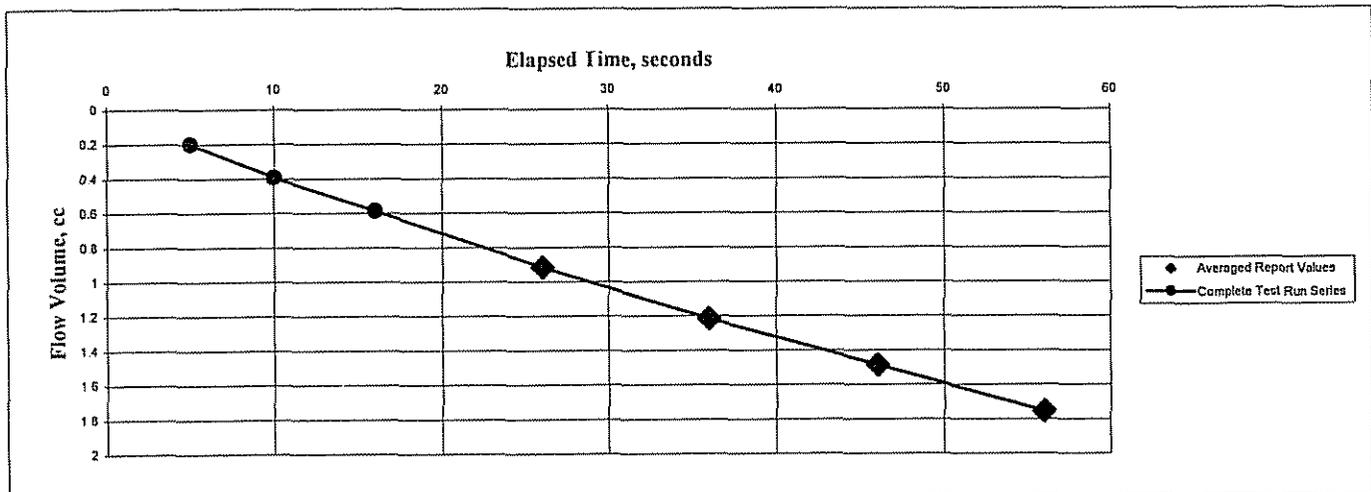
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 83.1
 Moisture Content, % 26.9
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 4.75
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 91.8
 Moisture Content, % 34.6



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB3

Sample Depth, ft.: 35

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 1.43E-07

Average Hydraulic Gradient: 9.5

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 103.8

Moisture Content, % 25.6

Specific Gravity, Assumed

Percent Saturation:

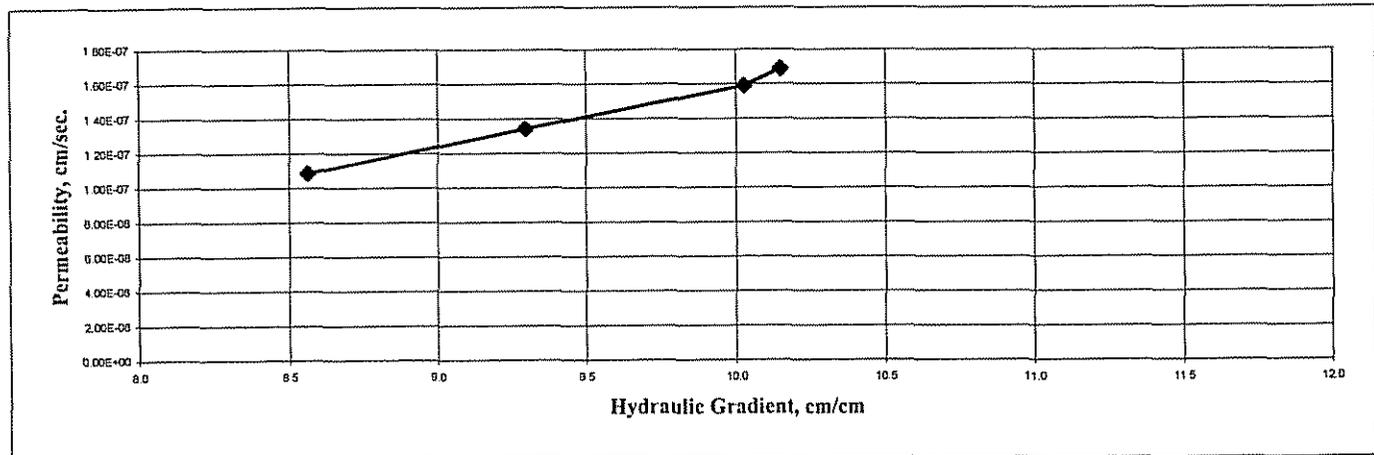
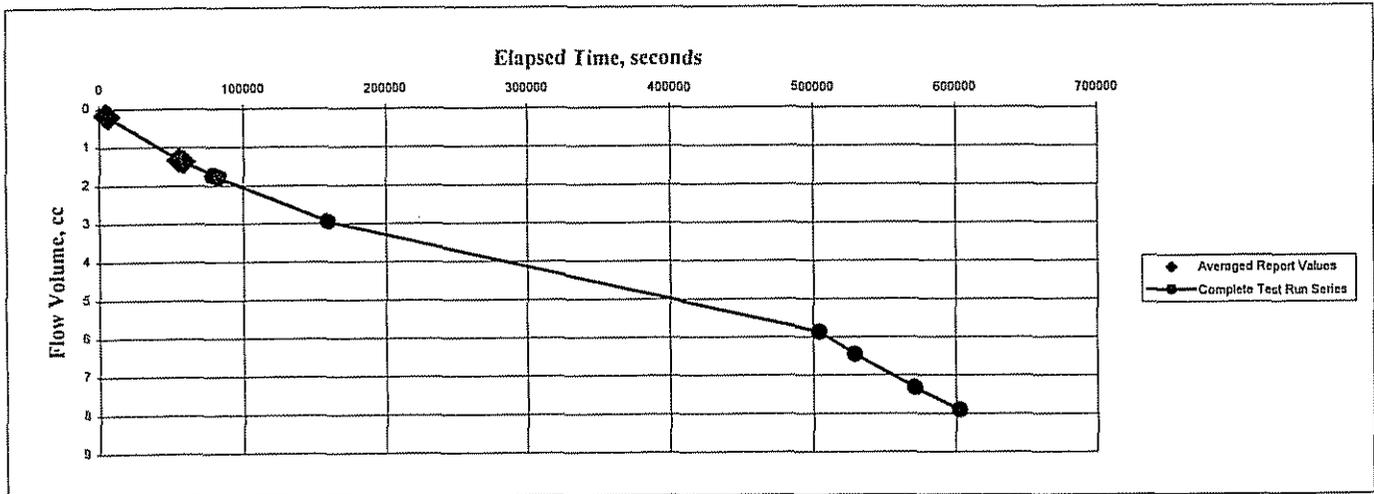
After Test

Specimen Height, cm: 5.33

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 102.0

Moisture Content, % 27.7



Test Method: ASIM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J. Mathews Blvd., El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB3
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 45
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 1.13E-05

Average Hydraulic Gradient: 3.4

Effective Cell Pressure, psi: 10

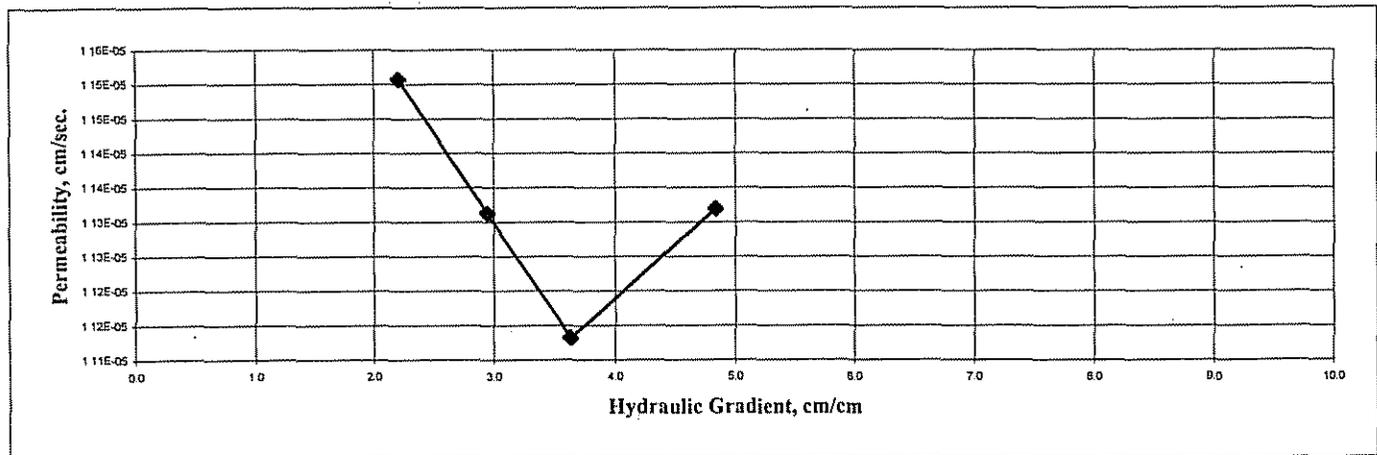
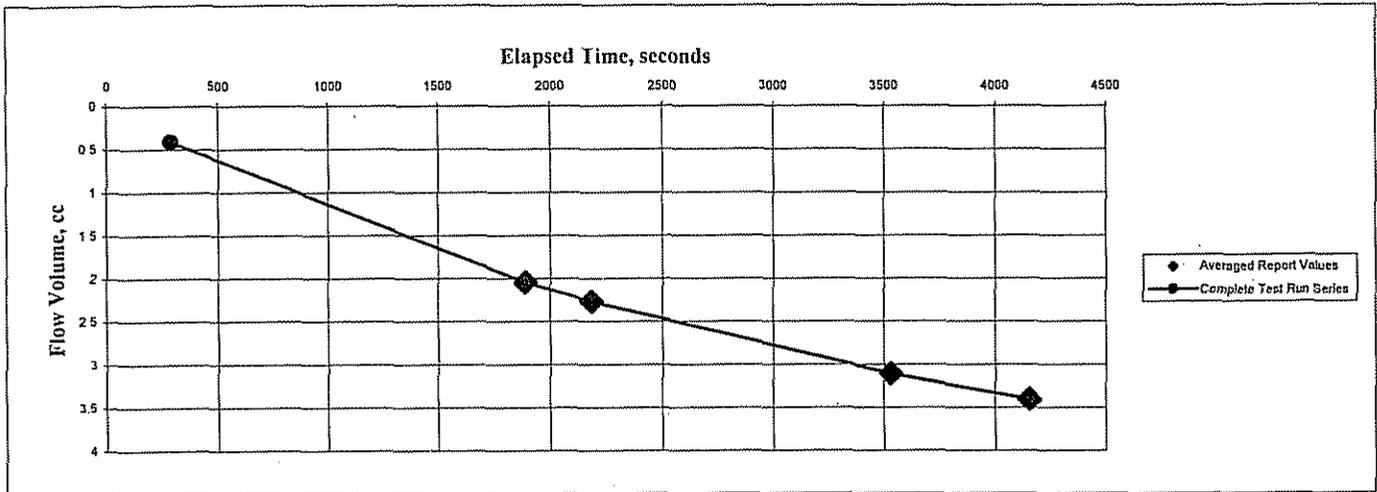
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 109.1
 Moisture Content, % 18.0
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.16
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 107.5
 Moisture Content, % 21.0



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J Mathews Blvd , El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB4

Sample Depth, ft.: 5

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 3.51E-06

Average Hydraulic Gradient: 6.6

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 104.5

Moisture Content, % 19.2

Specific Gravity, Assumed

Percent Saturation:

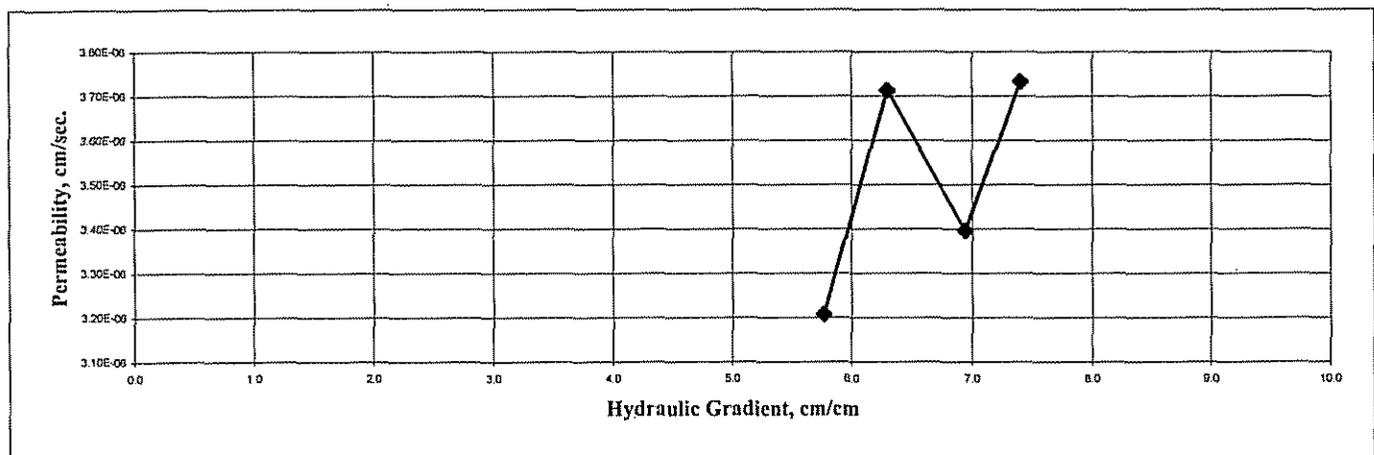
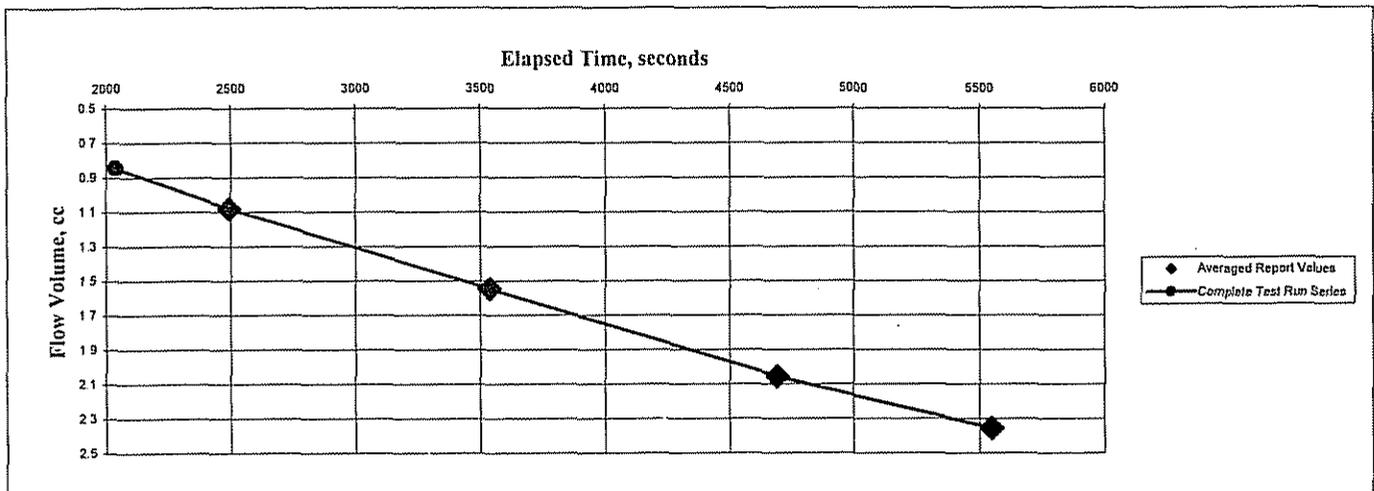
After Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 104.5

Moisture Content, % 23.2



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



5040 Robert J Mathews Blvd, El Dorado Hills, CA 95762
 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB4
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 15
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 2.20E-07

Average Hydraulic Gradient: 6.4

Effective Cell Pressure, psi: 10

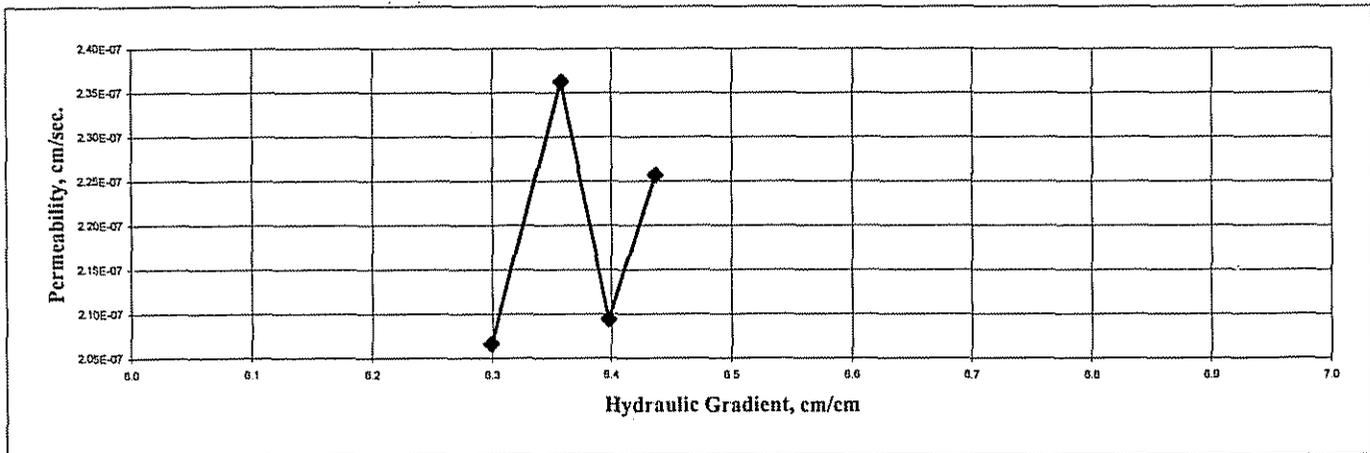
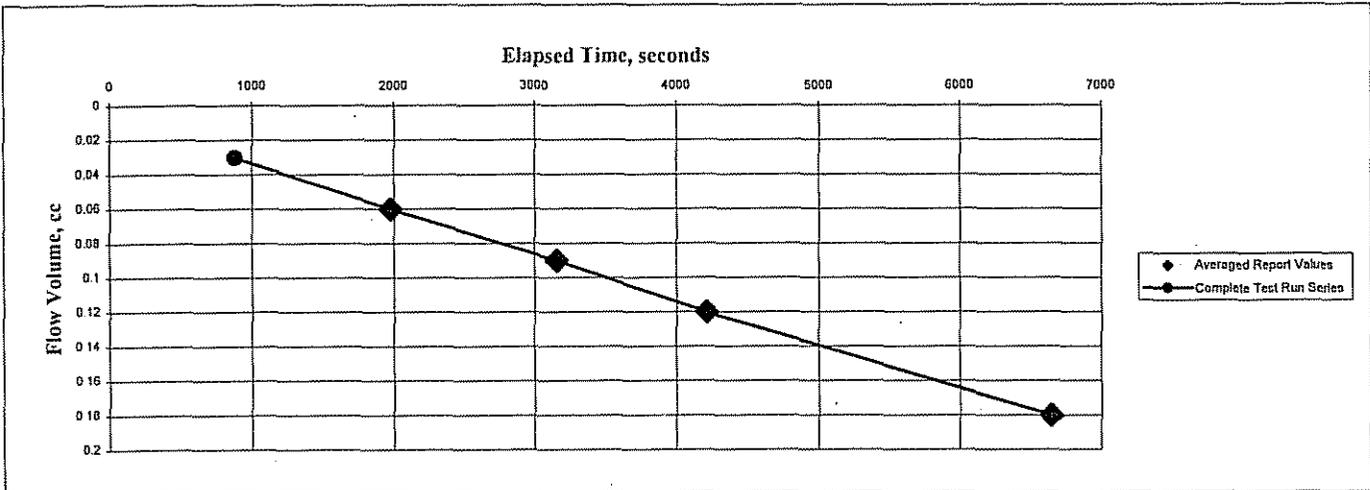
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 100.5
 Moisture Content, % 24.7
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 100.5
 Moisture Content, % 27.1



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB4
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 25
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 7.48E-05

Average Hydraulic Gradient: 8.2

Effective Cell Pressure, psi: 10

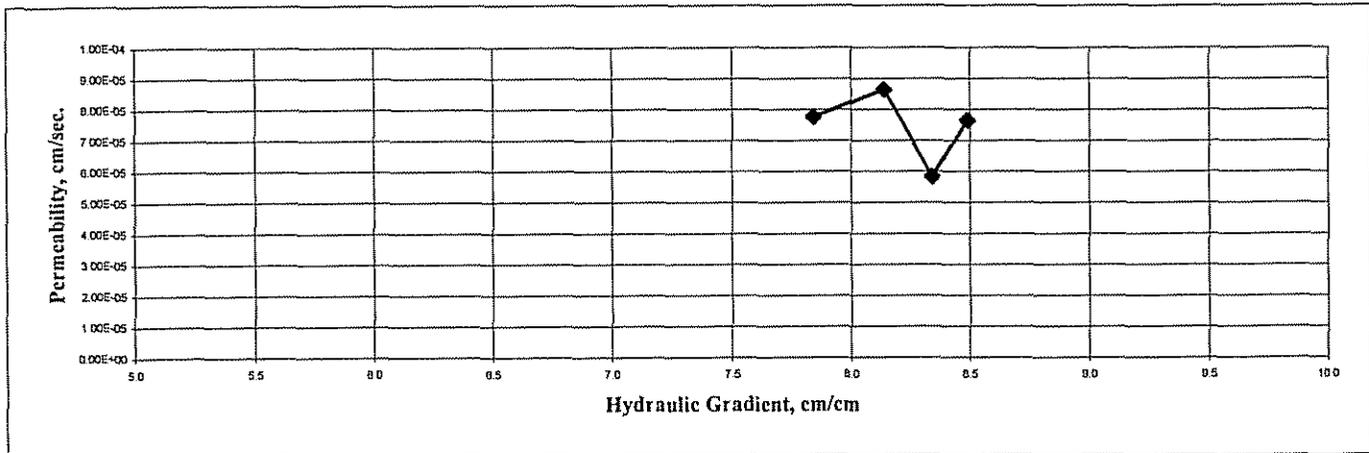
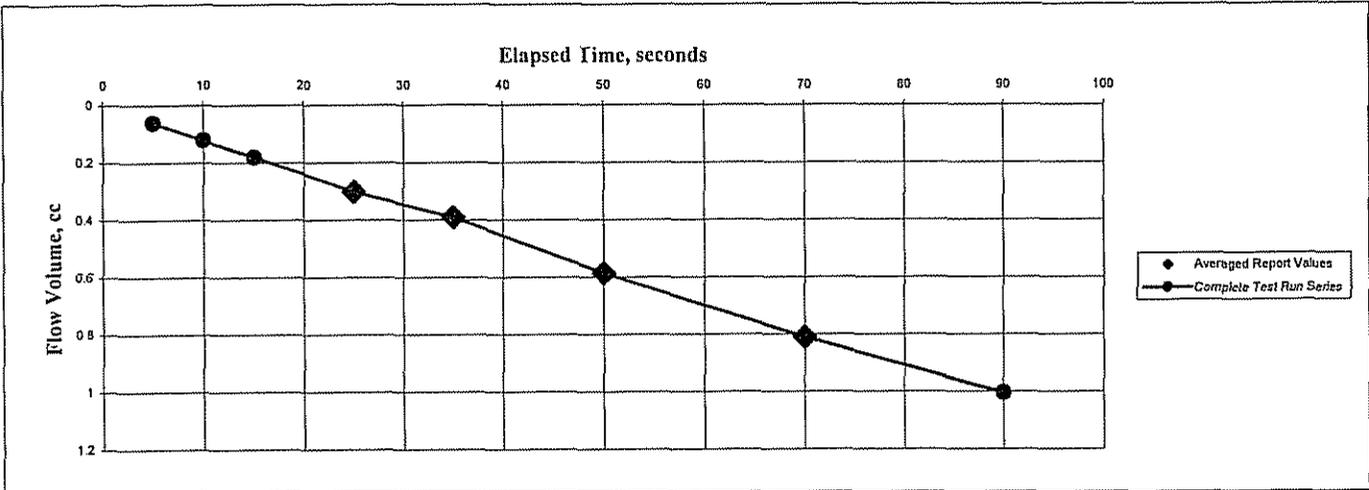
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 89.6
 Moisture Content, % 24.6
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 4.70
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 98.9
 Moisture Content, % 30.3



Test Method: ASIM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB4
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 35
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 1.29E-05 Average Hydraulic Gradient: 6.2
 Effective Cell Pressure, psi: 10

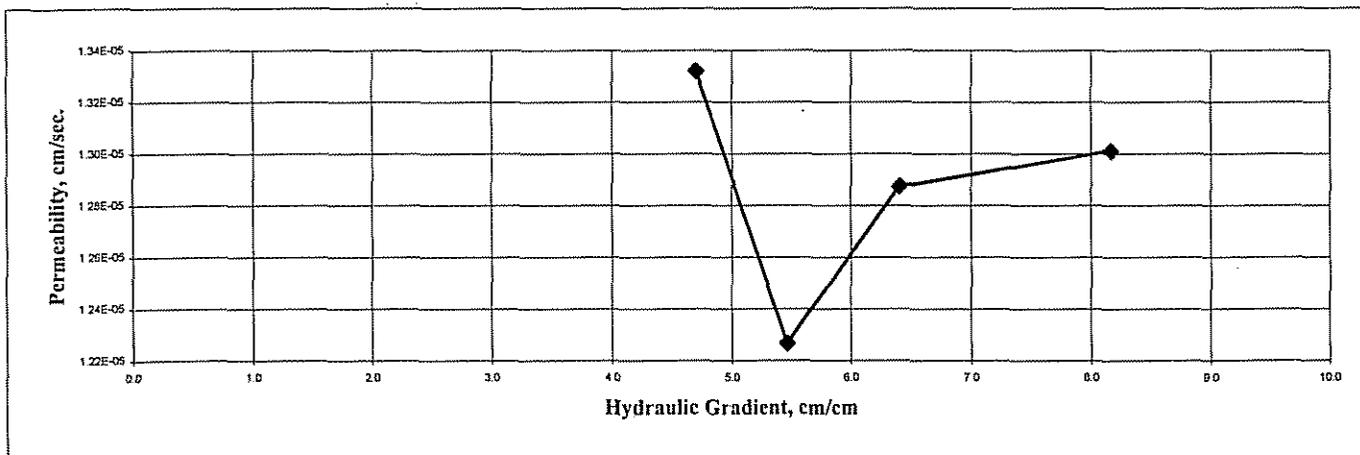
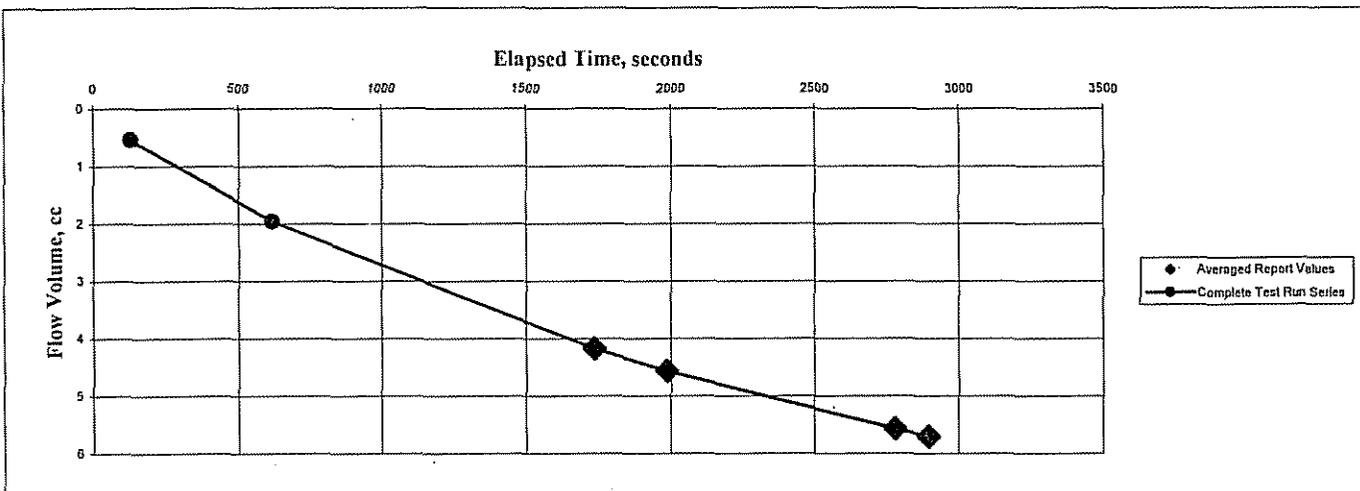
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 96.0
 Moisture Content, % 22.7
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 4.95
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 99.6
 Moisture Content, % 26.8



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB4

Sample Depth, ft.: 45

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 1.77E-04

Average Hydraulic Gradient: 5.8

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 101.7

Moisture Content, % 7.2

Specific Gravity, Assumed

Percent Saturation:

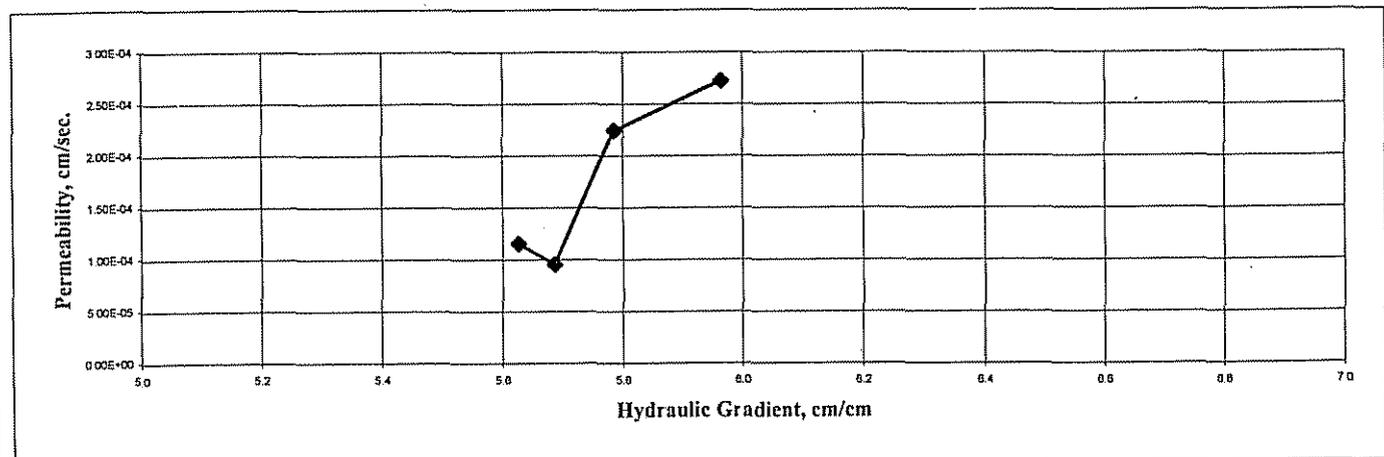
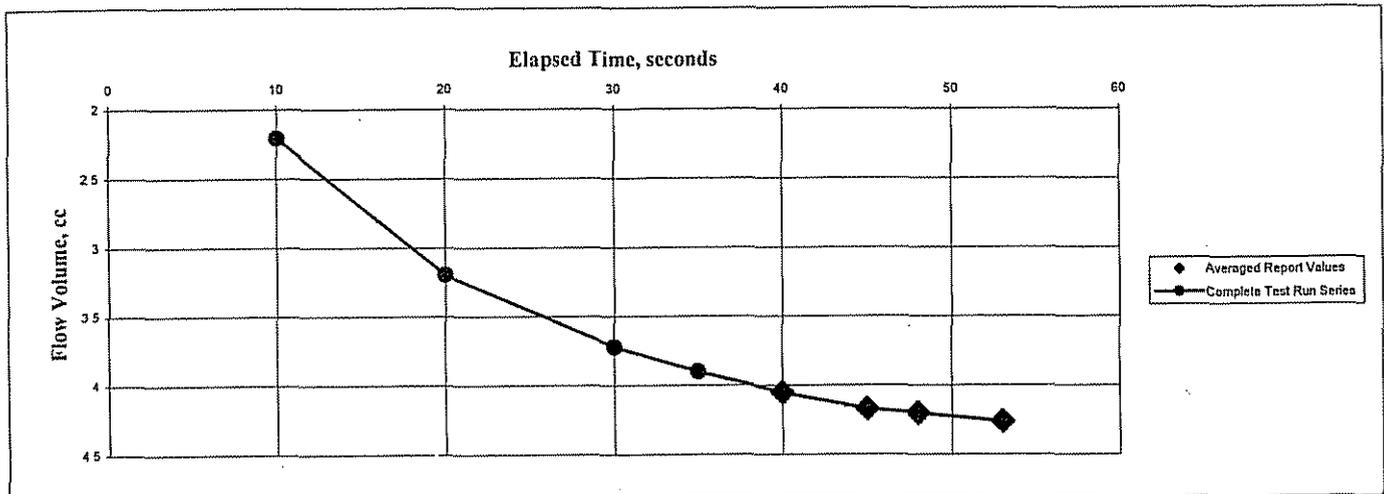
After Test

Specimen Height, cm: 5.03

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 103.8

Moisture Content, % 19.9



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB5
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 5
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 5.32E-05

Average Hydraulic Gradient: 7.4

Effective Cell Pressure, psi: 10

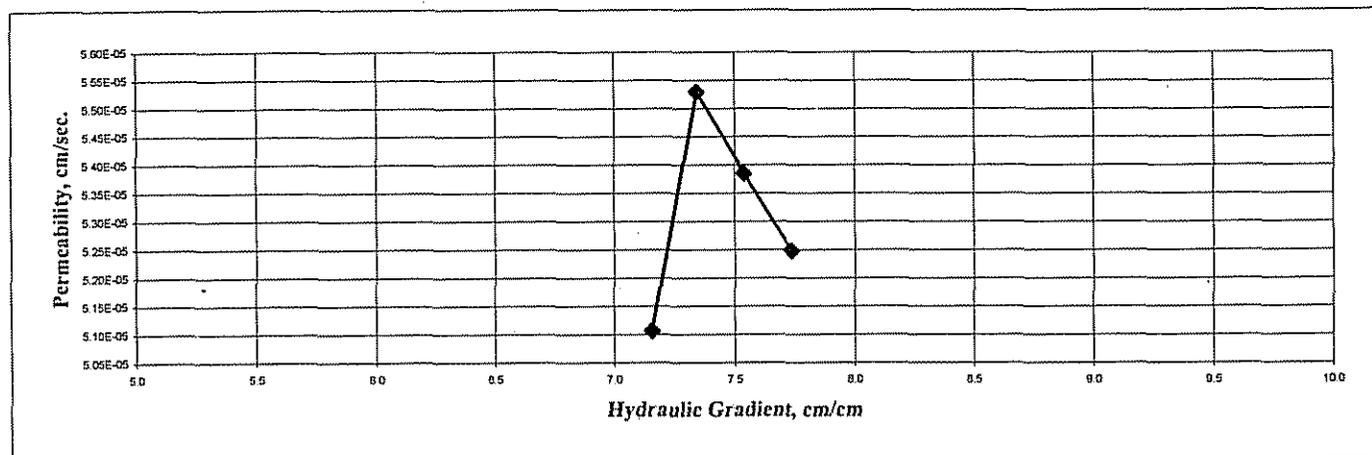
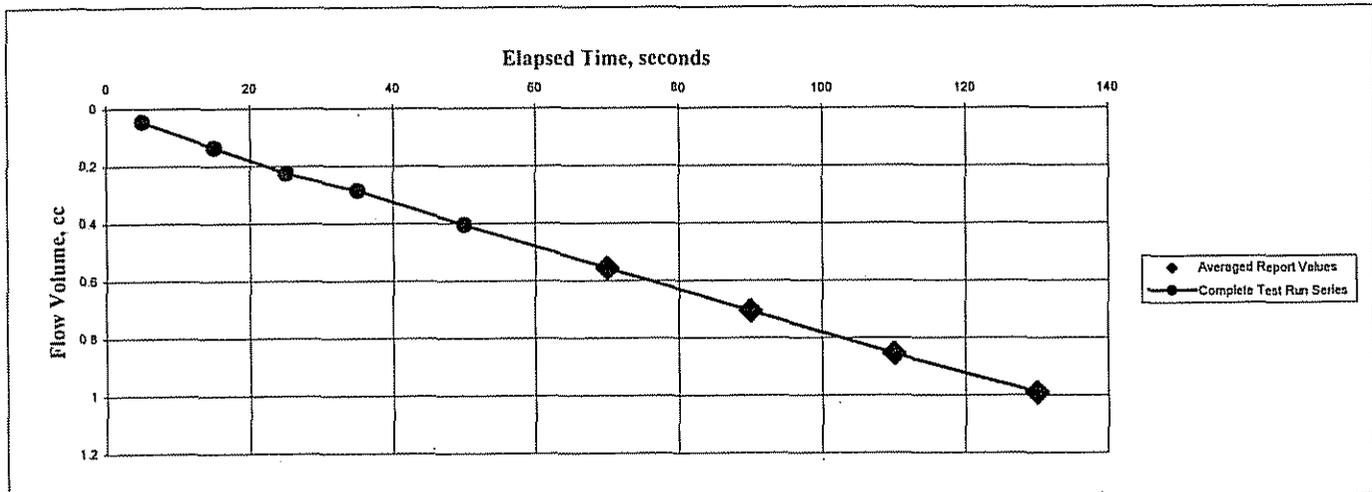
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 107.6
 Moisture Content, % 18.3
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 107.6
 Moisture Content, % 21.8



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB5
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 15
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 1.50E-06

Average Hydraulic Gradient: 4.3

Effective Cell Pressure, psi: 10

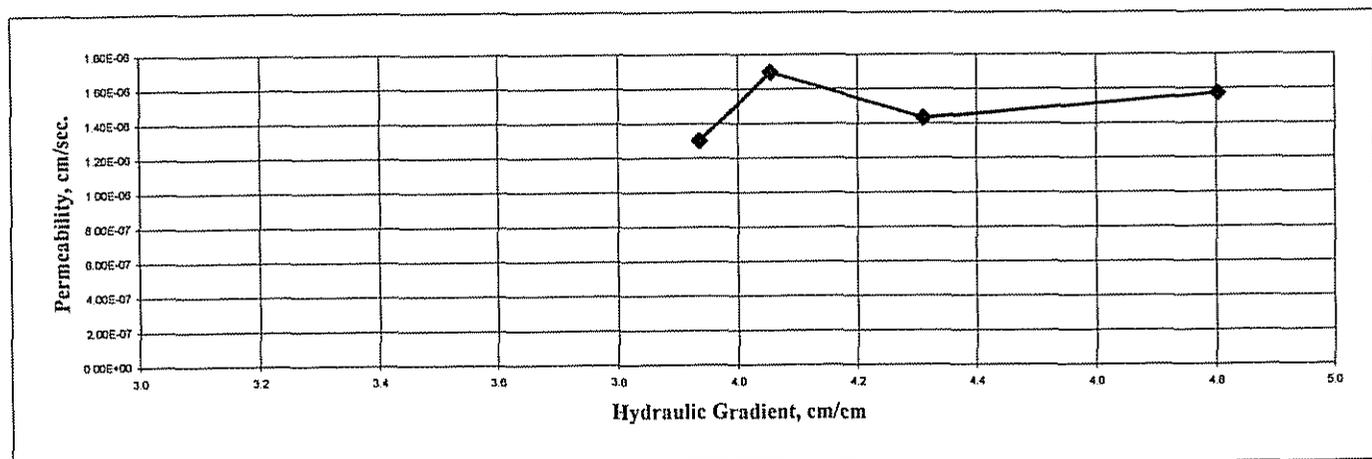
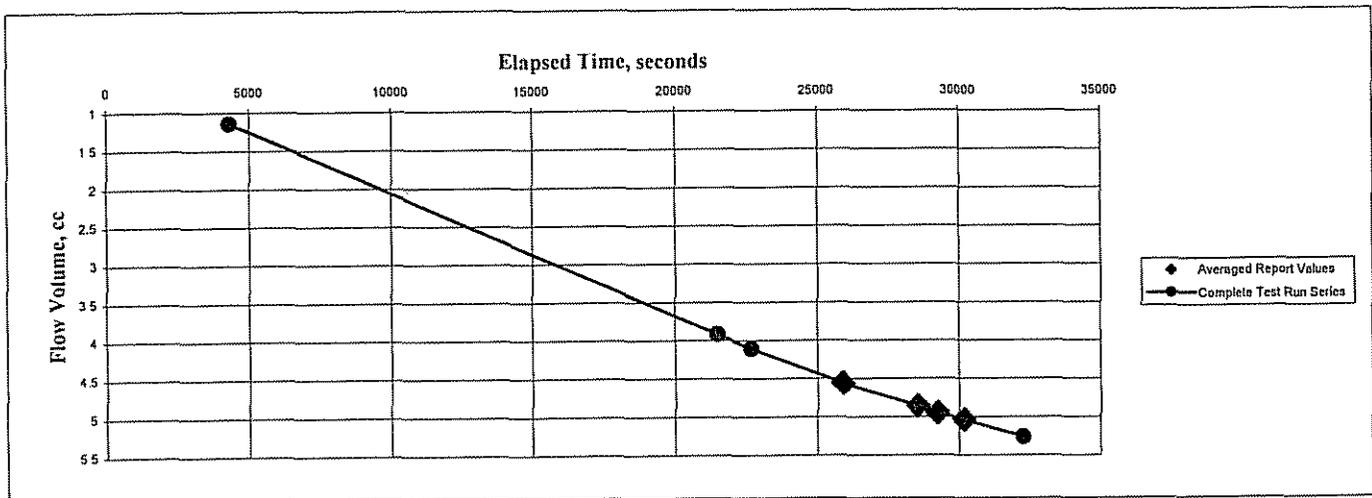
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 110.8
 Moisture Content, % 20.5
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 110.8
 Moisture Content, % 20.5



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

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HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB5

Sample Depth, ft.: 25

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 2.10E-04

Average Hydraulic Gradient: 11.2

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 107.7

Moisture Content, % 16.8

Specific Gravity, Assumed

Percent Saturation:

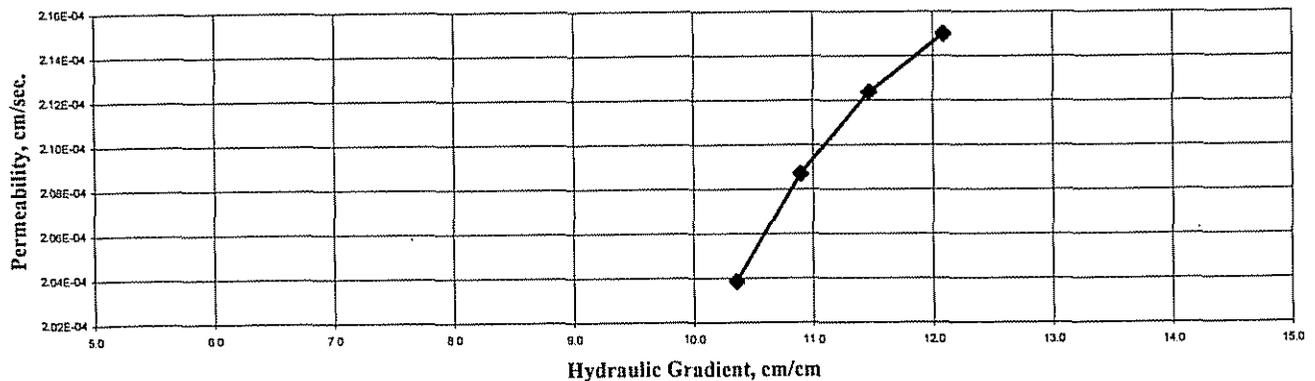
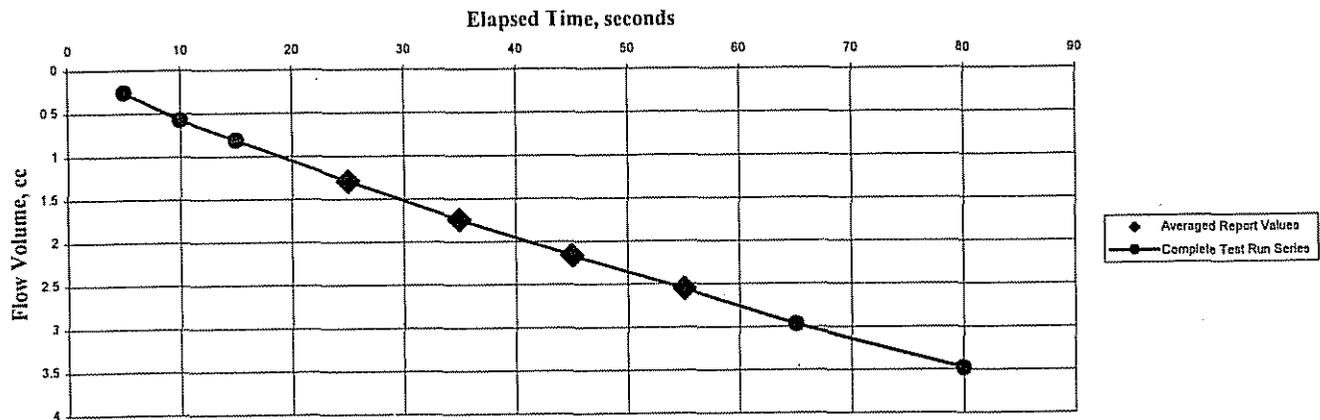
After Test

Specimen Height, cm: 5.03

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 107.7

Moisture Content, % 22.0



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes

SIERRA TESTING LABORATORIES, INC.
GEOTECHNICAL AND MATERIALS TESTING SERVICES

5040 Robert J Mathews Blvd, El Dorado Hills, CA 95762
Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB5

Sample Depth, ft.: 35

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 2.66E-04

Average Hydraulic Gradient: 10.7

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 95.4

Moisture Content, % 18.7

Specific Gravity, Assumed

Percent Saturation:

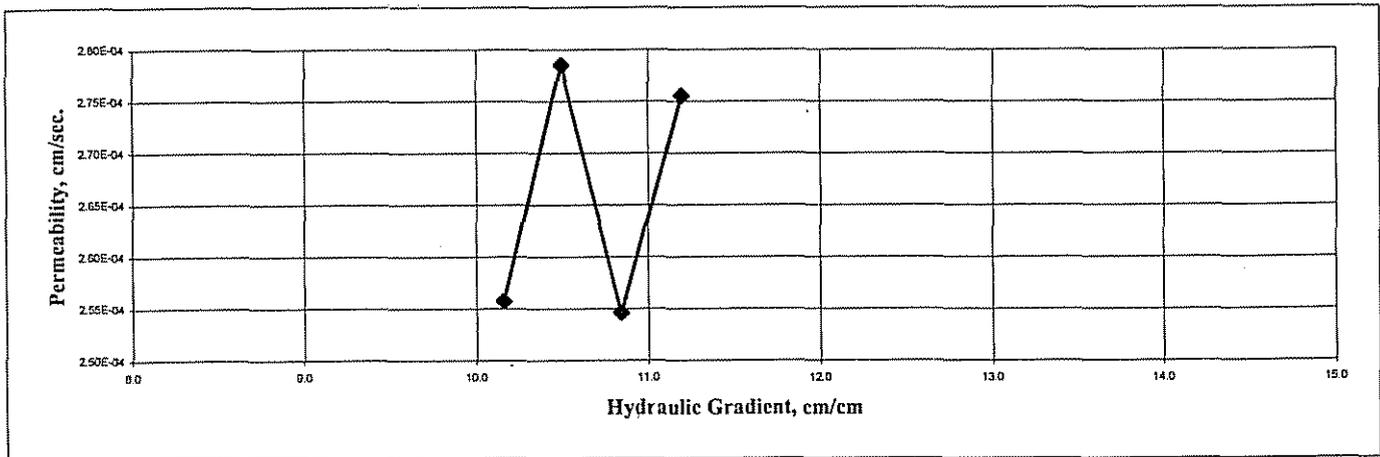
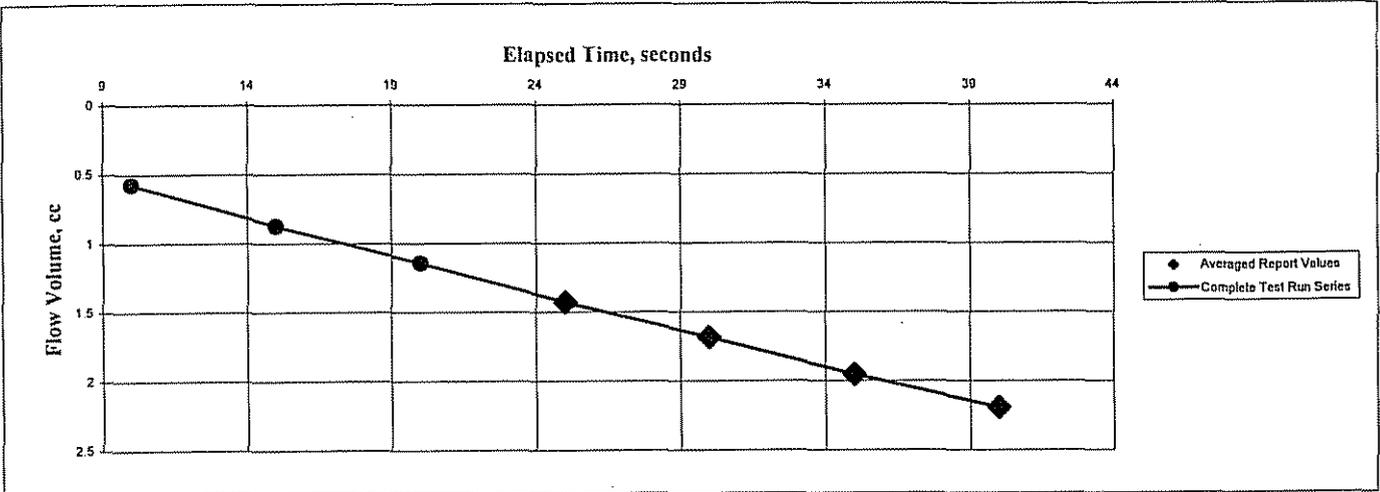
After Test

Specimen Height, cm: 5.05

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 95.9

Moisture Content, % 28.4



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB6
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 5
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 1.73E-07

Average Hydraulic Gradient: 7.9

Effective Cell Pressure, psi: 10

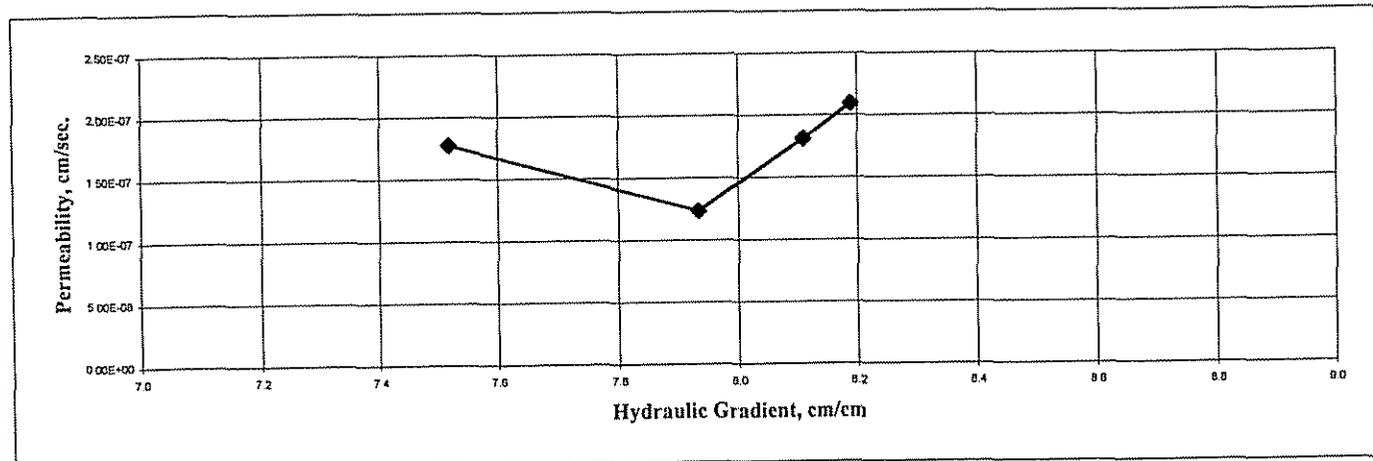
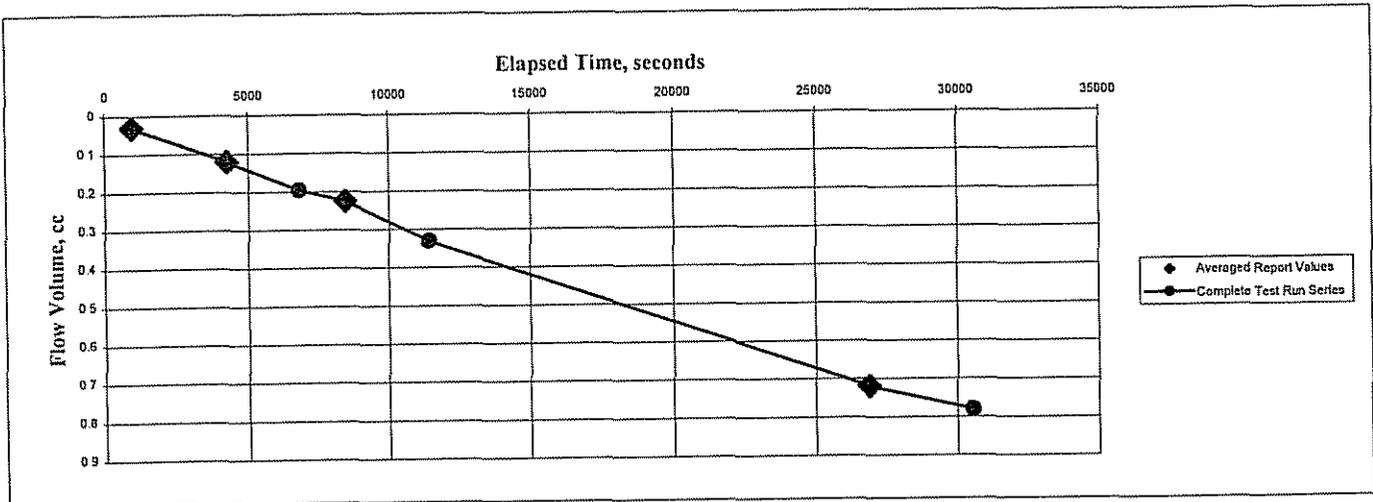
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 157.4
 Moisture Content, % -23.5
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 157.4
 Moisture Content, % -23.5



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB6

Sample Depth, ft.: 15

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 8.27E-04

Average Hydraulic Gradient: 5.9

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 94.1

Moisture Content, % 17.4

Specific Gravity, Assumed

Percent Saturation:

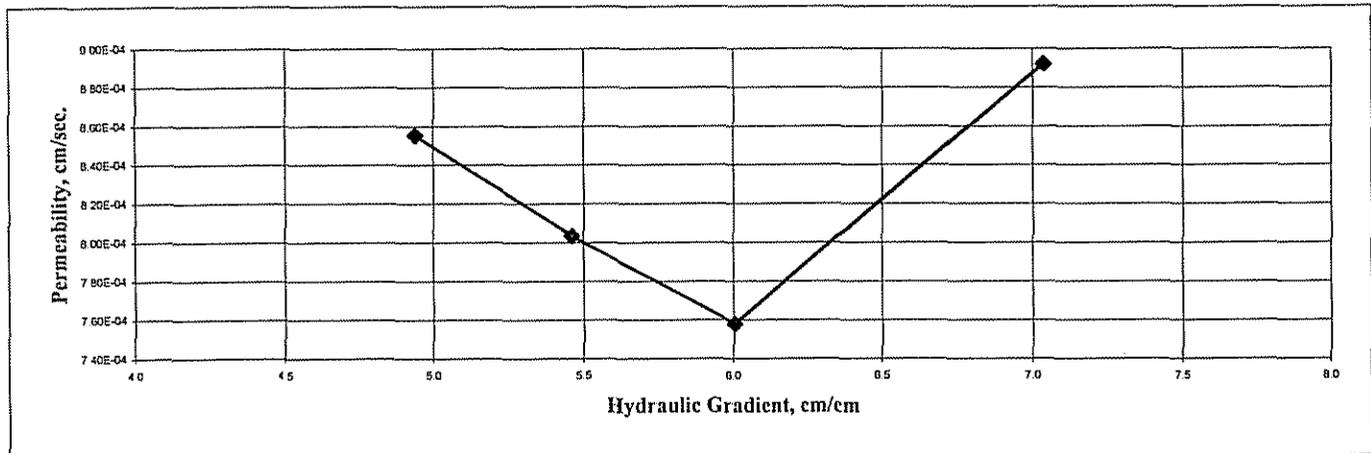
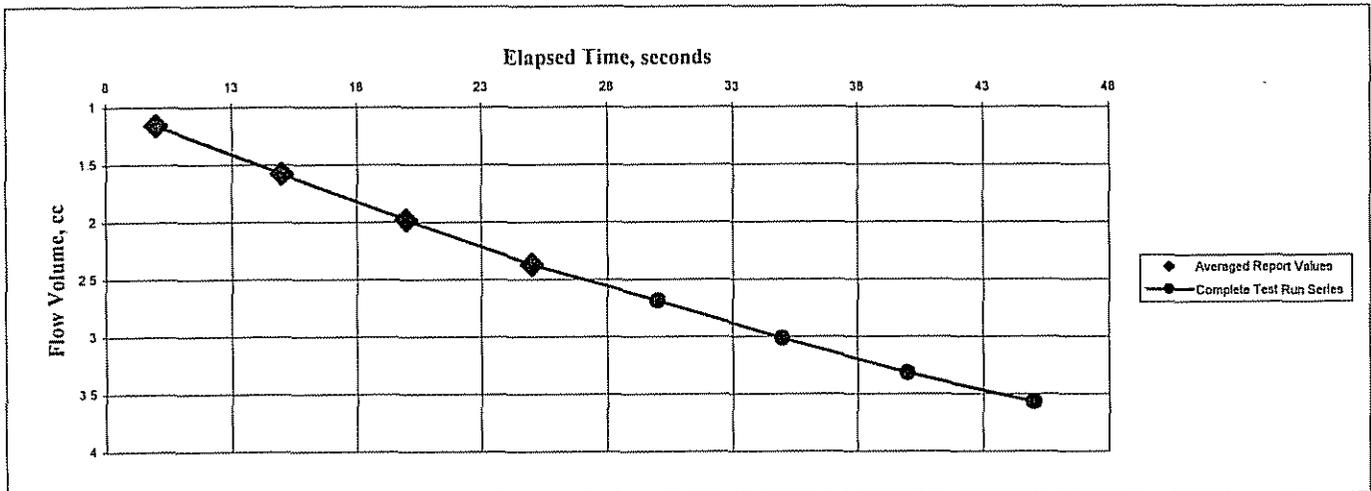
After Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 94.1

Moisture Content, % 17.4



Test Method: ASIM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB6

Sample Depth, ft.: 25

Visual Description: N/A

Sample Type: Brass Liner

Remarks:

TEST RESULTS

Permeability, cm/sec.: 3.44E-06

Average Hydraulic Gradient: 9.2

Effective Cell Pressure, psi: 10

TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 113.3

Moisture Content, % 18.1

Specific Gravity, Assumed

Percent Saturation:

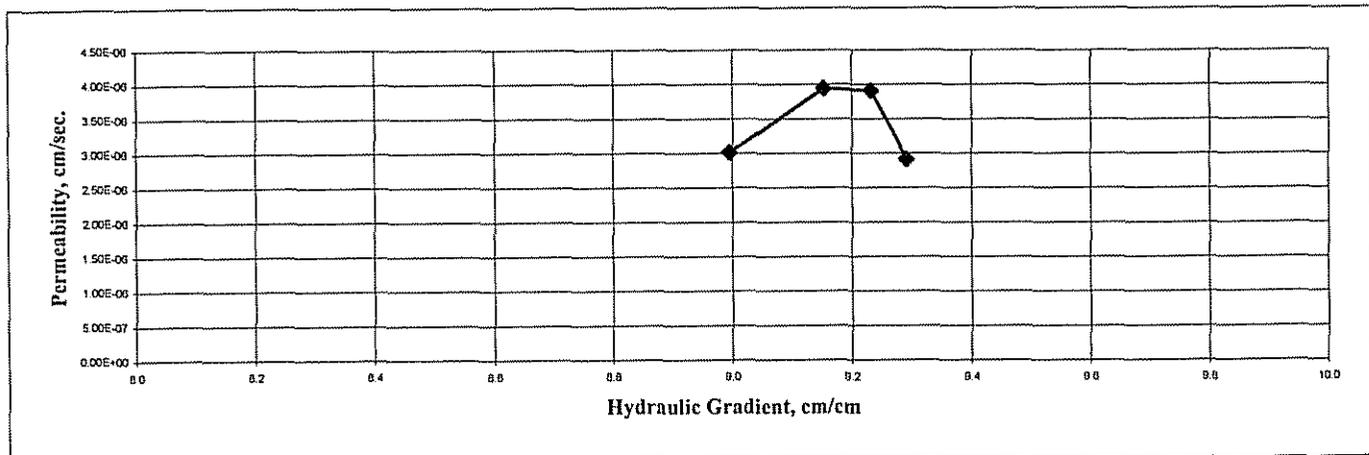
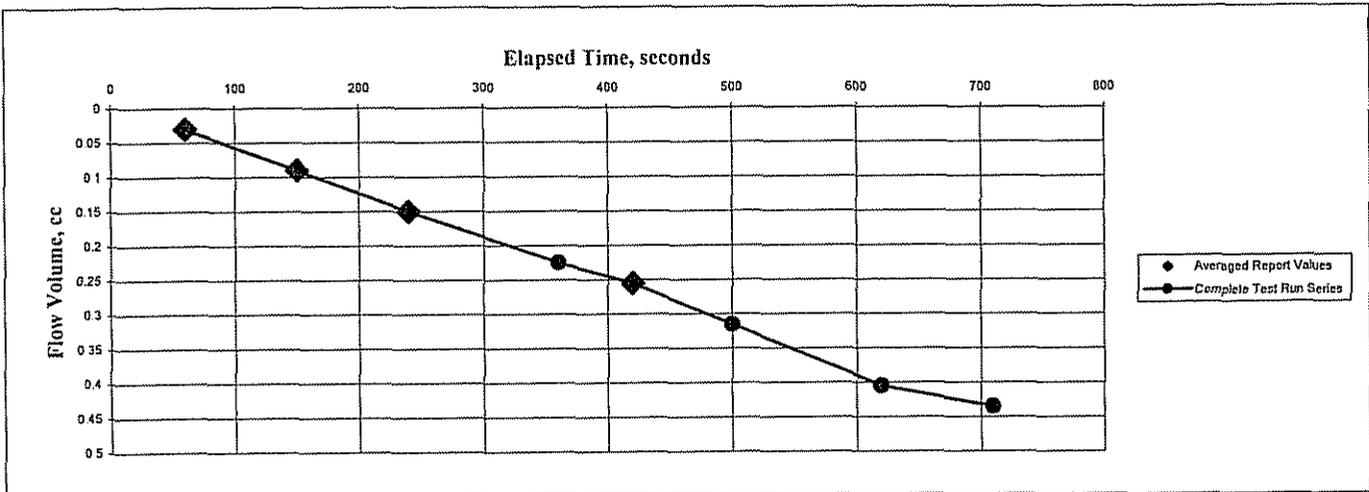
After Test

Specimen Height, cm: 5.08

Specimen Diameter, cm: 4.85

Dry Unit Weight, pcf: 113.3

Moisture Content, % 18.1



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB6
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 35
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 4.12E-06

Average Hydraulic Gradient: 9.6

Effective Cell Pressure, psi: 10

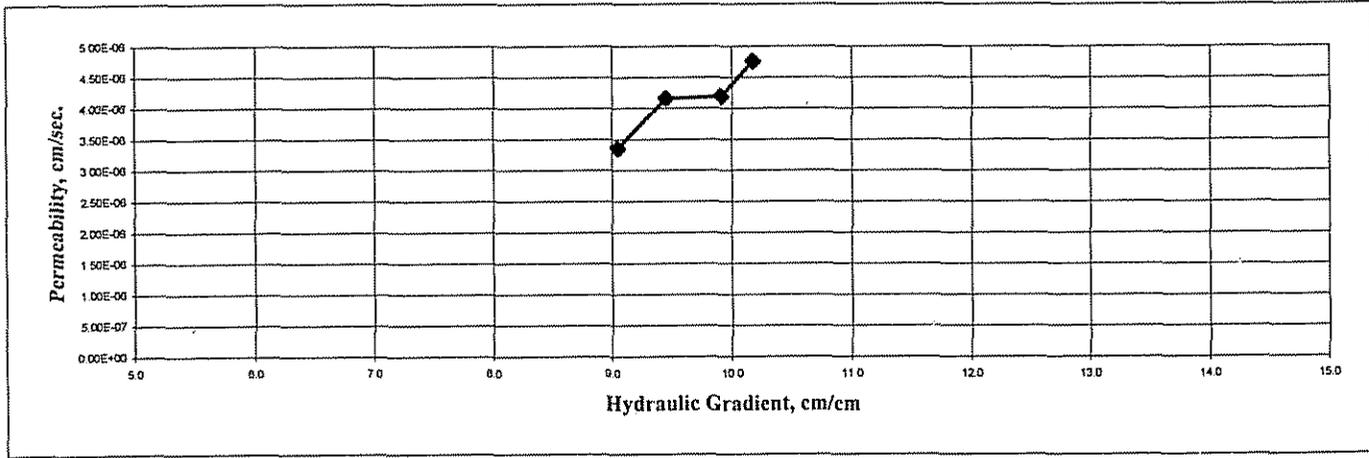
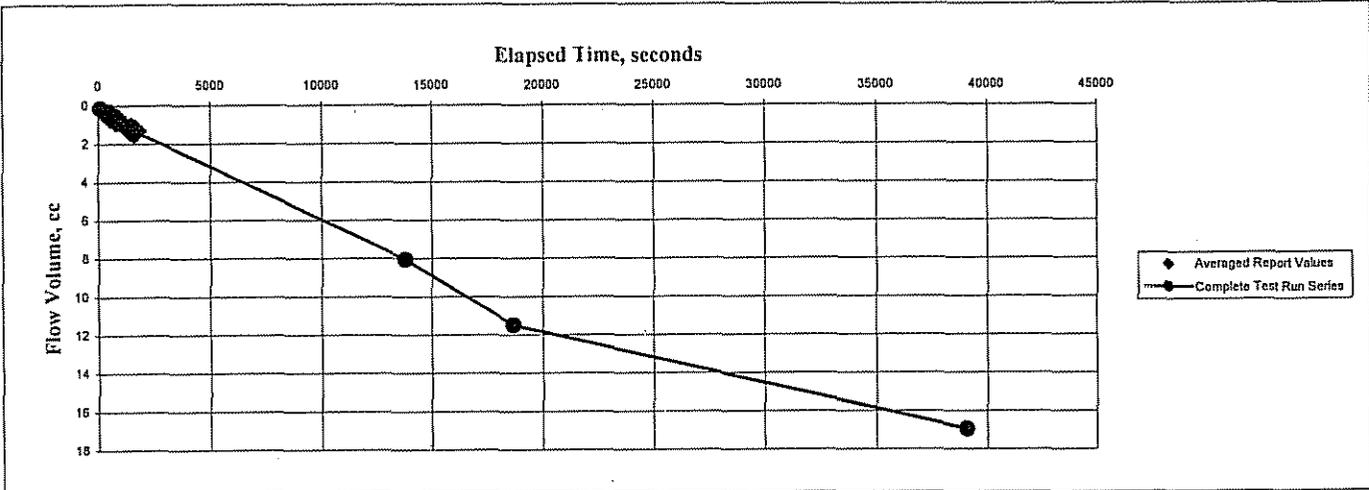
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 95.2
 Moisture Content, % 27.4
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.05
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 95.7
 Moisture Content, % 28.9



Test Method: ASIM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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 Phone: (916) 939-3460 FAX: (916) 939-3507

HYDRAULIC CONDUCTIVITY TEST REPORT

SAMPLE DATA

Sample Identification: SB6
 Visual Description: N/A
 Remarks:

Sample Depth, ft.: 45
 Sample Type: Brass Liner

TEST RESULTS

Permeability, cm/sec.: 4.39E-05

Average Hydraulic Gradient: 7.0

Effective Cell Pressure, psi: 10

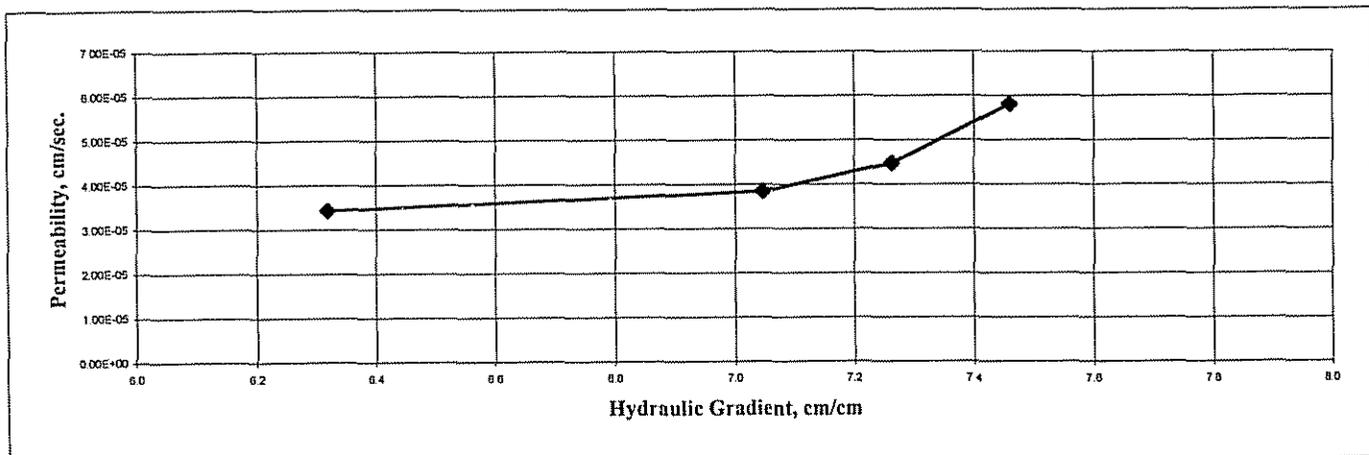
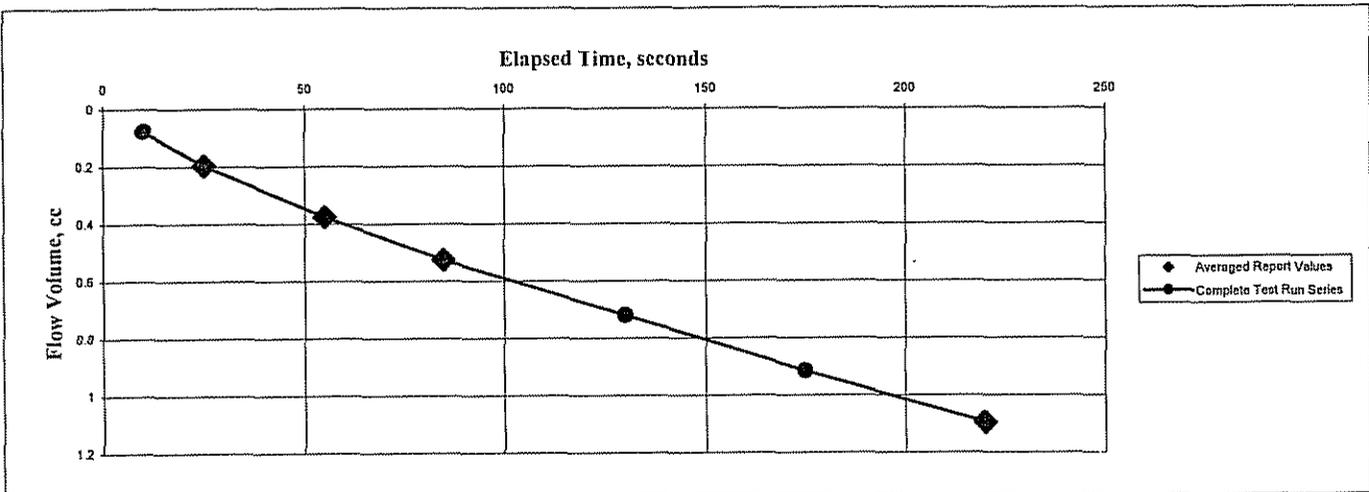
TEST SAMPLE DATA

Before Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 93.8
 Moisture Content, % 27.9
 Specific Gravity, Assumed
 Percent Saturation:

After Test

Specimen Height, cm: 5.08
 Specimen Diameter, cm: 4.85
 Dry Unit Weight, pcf: 93.8
 Moisture Content, % 27.9



Test Method: ASTM D5084 Method C

PROJECT NUMBER: 06-300

August 17, 2006

Mariposa Lakes



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 Phone: (916) 939-3460 FAX: (916) 939-3507

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	99	
#30/.600mm	99	
#50/.300mm	98	
#100/.150mm	93	
#200/.075mm	81	

FINENESS MODULUS

0.1

Sample Location **SB-1@10'**
Sample Description: Brown Sandy Silt
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

1

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
3/4"/19mm	100	
1/2"/12.5mm	94	
3/8"/9.5mm	92	
#4/4.75mm	89	
#8/2.36mm	86	
#16/1.18mm	81	
#30/.600mm	64	
#50/.300mm	22	
#100/.150mm	6	
#200/.075mm	3	

FINENESS MODULUS

2.5

Sample Location **SB-1@20'**
Sample Description: Brown Sandy with Agg
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

2

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
3/4"/19mm	100	
1/2"/12.5mm	96	
3/8"/9.5mm	94	
#4/4.75mm	87	
#8/2.36mm	79	
#16/1.18mm	65	
#30/.600mm	39	
#50/.300mm	13	
#100/.150mm	7	
#200/.075mm	6	

FINENESS MODULUS

3.1

Sample Location **SB-1@30'**
Sample Description: Brown Sandy with Agg
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

3

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#16/1.18mm	100	
#30/.600mm	99	
#50/.300mm	98	
#100/.150mm	94	
#200/.075mm	83	

FINENESS MODULUS

0.1

Sample Location **SB-1@40'**
Sample Description: Brown Clayey Silt
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

4

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
1/2"/12.5mm	100	
3/8"/9.5mm	99	
#4/4.75mm	99	
#8/2.36mm	98	
#16/1.18mm	94	
#30/.600mm	90	
#50/.300mm	81	
#100/.150mm	63	
#200/.075mm	50	

FINENESS MODULUS

0.8

Sample Location **SB-1@50'**
Sample Description: Brown Sandy Silt
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

5

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	99	
#30/.600mm	98	
#50/.300mm	95	
#100/.150mm	78	
#200/.075mm	54	

FINENESS MODULUS

0.3

Sample Location **SB-2@10'**
Sample Description: Brown Sandy Silt
Sample Date: N/A
Sample I.D.: G0608010



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Mariposa Lakes

PLATE

6

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	99	
#30/.600mm	98	
#50/.300mm	96	
#100/.150mm	85	
#200/.075mm	63	

FINENESS MODULUS

0.2

Sample Location **SB-2@20'**
Sample Description: Light Brown Sandy Silt
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

7

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	99	
#16/1.18mm	94	
#30/.600mm	66	
#50/.300mm	26	
#100/.150mm	10	
#200/.075mm	7	

FINENESS MODULUS

2.0

Sample Location **SB-2@40'**
Sample Description: Brown Sandy Silt
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

9

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
3/8"/9.5mm	100	
#4/4.75mm	99	
#8/2.36mm	98	
#16/1.18mm	96	
#30/.600mm	93	
#50/.300mm	90	
#100/.150mm	85	
#200/.075mm	79	

FINENESS MODULUS

0.4

Sample Location **SB-2@40'**
Sample Description: Brown Sandy Silt
Sample Date: N/A
Sample I.D.: G0608010



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Mariposa Lakes

PLATE

9

Drafted By:

PM

File No.:

63138.H02

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	98	
#30/.600mm	94	
#50/.300mm	89	
#100/.150mm	81	
#200/.075mm	73	

FINENESS MODULUS

0.4

Sample Location **SB-2@50'**
Sample Description: Brown Clayey Silt
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

10

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	99	
#30/.600mm	98	
#50/.300mm	90	
#100/.150mm	63	
#200/.075mm	37	

FINENESS MODULUS

0.5

Sample Location **SB-3@10'**
Sample Description: Brown Sandy Silt
Sample Date: N/A
Sample I.D.: G0608010



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PLATE

11

Drafted By:

PM

File No.:

63138.H02

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	99	
#16/1.18mm	97	
#30/.600mm	94	
#50/.300mm	92	
#100/.150mm	86	
#200/.075mm	64	

FINENESS MODULUS

0.3

Sample Location **SB-3@20'**

Sample Description: Light Brown Silt

Sample Date: N/A

Sample I.D.: G0608010



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Mariposa Lakes

PLATE

12

Drafted By: **PM**

File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	99	
#30/.600mm	97	
#50/.300mm	92	
#100/.150mm	82	
#200/.075mm	70	

FINENESS MODULUS

0.3

Sample Location **SB-3@30'**

Sample Description: Brown Silt

Sample Date: N/A

Sample I.D.: G0608010



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Mariposa Lakes

PLATE

13

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	99	
#30/.600mm	98	
#50/.300mm	96	
#100/.150mm	79	
#200/.075mm	47	

FINENESS MODULUS

0.3

Sample Location **SB-3@40'**

Sample Description: Brown Silt

Sample Date: N/A

Sample I.D.: G0608010



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Mariposa Lakes

PLATE

14

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	99	
#16/1.18mm	98	
#30/.600mm	95	
#50/.300mm	87	
#100/.150mm	75	
#200/.075mm	67	

FINENESS MODULUS

0.5

Sample Location **SB-3@50'**
Sample Description: Light Brown Silt
Sample Date: N/A
Sample I.D.: G0608010



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Mariposa Lakes

PLATE

15

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	99	
#16/1.18mm	96	
#30/.600mm	90	
#50/.300mm	77	
#100/.150mm	63	
#200/.075mm	53	

FINENESS MODULUS

0.7

Sample Location: **SB-4@10'**
Sample Description: Light Brown Sandy Silt
Sample Date: N/A



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Mariposa Lakes

PLATE

16

Drafted By:

PM

File No.:

63138.H02

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	99	
#16/1.18mm	98	
#30/.600mm	97	
#50/.300mm	92	
#100/.150mm	78	
#200/.075mm	67	

FINENESS MODULUS

0.4

Sample Location: **SB-4@20'**

Sample Description: Brown Clayey Silt

Sample Date: N/A



KLEINFELDER

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Mariposa Lakes

PLATE

17

Drafted By:

PM

File No.:

63138.H02

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	99	
#30/.600mm	98	
#50/.300mm	96	
#100/.150mm	95	
#200/.075mm	93	

FINENESS MODULUS

0.1

Sample Location: **SB-4@30'**

Sample Description: Gray Silt

Sample Date: N/A



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PLATE

18

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
3/4"/19mm	100	
1/2"/12.5mm	98	
3/8"/9.5mm	98	
#4/4.75mm	98	
#8/2.36mm	95	
#16/1.18mm	94	
#30/.600mm	82	
#50/.300mm	21	
#100/.150mm	4	
#200/.075mm	2	

FINENESS MODULUS

2.1

Sample Location: SB-4@40'

Sample Description: Brown Sand

Sample Date: N/A



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Mariposa Lakes

PLATE

19

Drafted By:

PM

File No.:

63138.H02

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	98	
#16/1.18mm	95	
#30/.600mm	82	
#50/.300mm	55	
#100/.150mm	36	
#200/.075mm	28	

FINENESS MODULUS

1.3

Sample Location: **SB-4@50'**

Sample Description: Brown Sandy Silt

Sample Date: N/A



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Mariposa Lakes

PLATE

20

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	97	
#16/1.18mm	93	
#30/.600mm	82	
#50/.300mm	56	
#100/.150mm	32	
#200/.075mm	20	

FINENESS MODULUS

1.4

Sample Location: **SB-5@10'**

Sample Description: 0

Sample Date: N/A



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Mariposa Lakes

PLATE

21

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	99	
#30/.600mm	93	
#50/.300mm	83	
#100/.150mm	71	
#200/.075mm	63	

FINENESS MODULUS

0.5

Sample Location: **SB-5@20'**

Sample Description: Brown Silt

Sample Date: N/A



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Mariposa Lakes

PLATE

22

Drafted By: **PM** File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#16/1.18mm	100	
#30/.600mm	99	
#50/.300mm	96	
#100/.150mm	90	
#200/.075mm	85	

FINENESS MODULUS

0.2

Sample Location: **SB-5@30'**

Sample Description: Brown Silt

Sample Date: N/A



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PLATE

23

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	98	
#16/1.18mm	97	
#30/.600mm	95	
#50/.300mm	68	
#100/.150mm	31	
#200/.075mm	15	

FINENESS MODULUS

1.1

Sample Location: **SB-5@40'**

Sample Description: Light Brown Sandy Silt

Sample Date: N/A



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PLATE

24

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	98	
#16/1.18mm	92	
#30/.600mm	80	
#50/.300mm	61	
#100/.150mm	45	
#200/.075mm	32	

FINENESS MODULUS

1.2

Sample Location: **SB-5@50'**

Sample Description: Brown Silty Sand

Sample Date: N/A



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Mariposa Lakes

PLATE

25

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#16/1.18mm	100	
#30/.600mm	99	
#50/.300mm	98	
#100/.150mm	90	
#200/.075mm	67	

FINENESS MODULUS

0.1

Sample Location: **SB-6@10'**

Sample Description: 0

Sample Date: N/A



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Mariposa Lakes

PLATE

26

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#16/1.18mm	100	
#30/.600mm	99	
#50/.300mm	65	
#100/.150mm	18	
#200/.075mm	8	

FINENESS MODULUS

1.2

Sample Location: **SB-6@20'**

Sample Description: **Brown Sand**

Sample Date: **N/A**



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An employee owned company

Mariposa Lakes

PLATE

27

Drafted By:

PM

File No.:

63138.H02

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#8/2.36mm	100	
#16/1.18mm	96	
#30/.600mm	88	
#50/.300mm	80	
#100/.150mm	73	
#200/.075mm	67	

FINENESS MODULUS

0.6

Sample Location: **SB-6@30'**

Sample Description: Brown Silt

Sample Date: N/A



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Mariposa Lakes

PLATE

28

Drafted By: **PM** | File No.: **63138.H02**

SIEVE ANALYSIS

ASTM C136

Sieve Size	Percent Passing by Weight	*Specifications
#4/4.75mm	100	
#8/2.36mm	93	
#16/1.18mm	88	
#30/.600mm	71	
#50/.300mm	41	
#100/.150mm	24	
#200/.075mm	15	

FINENESS MODULUS

1.8

Sample Location: **SB-6@40'**

Sample Description: **Brown Silty Sand**

Sample Date: **N/A**



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Mariposa Lakes

PLATE

29

Drafted By: **PM** File No.: **63138.H02**

APPENDIX Q (CONTINUED)

Revised Report Groundwater Recharge
Feasibility Assessment
Arbini Property APN 181-030-01
Mariposa Lakes Development Stockton, California
Appendix E

Appendix E



ANALYTICAL CHEMISTS

October 4, 2006

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Lab ID : STK637600
Customer : 3002703

RECEIVED

OCT 6 - 2006

Laboratory Report

KLEINFELDER, INC.

Introduction: This report package contains total of 39 pages divided into three sections:

- Case Narrative (5 Pages): An overview of the work performed at FGL.
Chemical Results (11 Pages): Results for each sample submitted.
Quality Control (23 Pages): Supporting Quality Control (QC) results.

This report package pertains to the following samples:

Table with 5 columns: Sample Description, Date Sampled, Date Received, FGL Lab Sample ID #, Matrix. Rows include Travel Blank, MW-5, MW-12, and MW-12.

Sampling and Receipt Information: All samples were received, prepared and analyzed within the method specified holding times. The holding time for pH is listed as immediate. Logistically this is very difficult to obtain. FGL policy is to analyze all samples requiring pH on the same day of receipt at the laboratory. If this presents any problem please call. All samples were received on ice. All samples were checked for pH if acid or base preservation required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Forms.

Discussion of Analytical Results:

The metals portion of the General Mineral was collected on 9/6/06 while the rest of that analysis was collected on 9/5/06.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

Table with 2 columns: Sample ID, Description. Rows 200.7 and 200.8 describe quality control notes for various samples.

Table continued on next page...

October 4, 2006

Lab ID : STK637600
Customer : 3002703

Kleinfelder Inc.

Quality Control:

Inorganic - Metals QC

200.8	<p>09/21/2006:A204 Continued...</p> <p>408 Matrix Spike(MS) or Post Digestion Spike(PDS) has no Acceptance Range (DQO) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.</p> <p>The following note applies to Silver, Aluminum, Arsenic, Beryllium, Cadmium, Nickel, Antimony, Selenium, Thallium, Vanadium:</p> <p>435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.</p>
	<p>09/21/2006:A - IX201 All analysis quality controls are within established criteria, except: The following note applies to Antimony, Barium:</p> <p>220 The absolute value of the CCB was greater than the DQO. However, all results were either five times greater than the CCB concentration or ND relative to the PQL. The following note applies to Beryllium:</p> <p>360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.</p>
245.1	<p>09/13/2006:A - HG202 All analysis quality controls are within established criteria.</p>
7470A	<p>09/13/2006:A212 All preparation quality controls are within established criteria.</p>

Inorganic - Wet Chemistry QC

2120C	<p>09/07/2006:A208 All preparation quality controls are within established criteria.</p> <p>09/07/2006:A - TEB All analysis quality controls are within established criteria.</p>
2130B	<p>09/07/2006:A245 All preparation quality controls are within established criteria.</p> <p>09/07/2006:B - TR203 All analysis quality controls are within established criteria.</p>
2150B	<p>09/07/2006:A222 All preparation quality controls are within established criteria.</p>
2320B	<p>09/08/2006:A202 All preparation quality controls are within established criteria.</p> <p>09/08/2006:A - TI201 All analysis quality controls are within established criteria.</p>
2510B	<p>09/08/2006:B212 All preparation quality controls are within established criteria.</p> <p>09/08/2006:A - EC201 All analysis quality controls are within established criteria.</p>
2540C	<p>09/11/2006:A235 All preparation quality controls are within established criteria.</p>
300.0	<p>09/07/2006:C215 All preparation quality controls are within established criteria.</p>

Table continued on next page...

Kleinfelder Inc.

Quality Control:

Inorganic - Wet Chemistry QC

300.0	09/15/2006:C215 Continued...
	09/15/2006:C215 All preparation quality controls are within established criteria.
	09/07/2006:A - IC204 All analysis quality controls are within established criteria.
4500-H B	09/15/2006:A - IC204 All analysis quality controls are within established criteria.
	09/06/2006:S346 All preparation quality controls are within established criteria.
4500CNCE	09/06/2006:S - PH301 All analysis quality controls are within established criteria.
	09/12/2006:A210 All preparation quality controls are within established criteria.
5540C	09/14/2006:A - UV203 All analysis quality controls are within established criteria.
	09/07/2006:A218 All preparation quality controls are within established criteria.
	09/07/2006:A - EL All analysis quality controls are within established criteria.

Organic QC

504.1	09/10/2006:A203 All preparation quality controls are within established criteria.
	09/10/2006:A - GC216 All analysis quality controls are within established criteria.
505	09/11/2006:A204 All preparation quality controls are within established criteria.
	09/18/2006:A - GC215 All analysis quality controls are within established criteria.
507	09/10/2006:A205 All preparation quality controls are within established criteria, except: The following note applies to Bromacil, Butachlor, Dimethoate, Simazine: 310 LCS above Acceptance Range (AR). Samples which were non detect for this analyte were accepted. The following note applies to Alachlor, Molinate: 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery. The following note applies to Triphenylphosphate: 560 Surrogate percent recoveries not within the Acceptance Range (AR) due to suspected matrix interferences. The following note applies to Triphenylphosphate: 565 Surrogate percent recoveries not within the Acceptance Range (AR). Please see Case Narrative for explanation.
	09/19/2006:B - GC218 All analysis quality controls are within established criteria, except: The following note applies to Alachlor, Atrazine, Butachlor, Diazinon, Dimethoate, Metolachlor, Metribuzin, Molinate, Prometryn, Propachlor, Simazine, Thiobencarb:

Kleinfelder Inc.

Quality Control:

Organic QC

507	<p>09/19/2006:B - GC218 Continued... 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted. The following note applies to Triphenylphosphate: 565 Surrogate percent recoveries not within the Acceptance Range (AR). Please see Case Narrative for explanation.</p>
515.3	<p>09/21/2006:A - GC216 All analysis quality controls are within established criteria.</p>
524.2	<p>09/08/2006:A209 All preparation quality controls are within established criteria, except: The following note applies to 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2-Trichlorotrifluoroethane, 1,1-Dichloroethylene, 1,2,4-Trimethylbenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, CarbonEthylsec-Butylbenzene, n-Butylbenzene, Xylenes m,p, Vinyl Chloride, Toluene, Styrene, Dichloromethane, Isopropylbenzene, Benzene, Hexachlorobutadiene, Trichloroethylene, Tetrachloride, Bromochloromethane, Bromodichloromethane: 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery. The following note applies to 1,1-Dichloroethane, 1,1-Dichloroethylene, 2-Chlorotoluene, Chloroethane, Chloromethane, Di-isopropyl ether (DIPE), Dichloromethane, Vinyl Chloride, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene: 426 Blank Spike (BS) not within Acceptance Range (AR). Data was accepted based on the LCS or CCV recovery.</p>
	<p>09/08/2006:A - GM205 All analysis quality controls are within established criteria.</p>
525.2	<p>09/17/2006:A210 All preparation quality controls are within established criteria.</p>
	<p>09/21/2006:A - GM201 All analysis quality controls are within established criteria.</p>
531.1	<p>09/18/2006:A211 All preparation quality controls are within established criteria.</p>
	<p>09/18/2006:A - LC204 All analysis quality controls are within established criteria.</p>
547	<p>09/07/2006:A212 All preparation quality controls are within established criteria.</p>
	<p>09/07/2006:A - LC204 All analysis quality controls are within established criteria.</p>
548.1	<p>09/12/2006:A213 All preparation quality controls are within established criteria, except: The following note applies to Endothall: 310 LCS above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.</p>
	<p>09/13/2006:A - GC207 All analysis quality controls are within established criteria, except: The following note applies to Endothall:</p>

October 4, 2006

Lab ID : STK637600
Customer : 3002703

Kleinfelder Inc.

Quality Control:

Organic QC

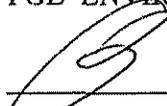
548.1	09/13/2006:A - GC207 Continued... 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
549.2	09/12/2006:A214 All preparation quality controls are within established criteria, except: The following note applies to Diquat: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
	09/13/2006:A - LC204 All analysis quality controls are within established criteria.
632	09/12/2006:A226 All preparation quality controls are within established criteria.
	09/14/2006:A - LC204 All analysis quality controls are within established criteria.

Radio Chemistry QC

900.0	09/11/2006:A207 All preparation quality controls are within established criteria, except: The following note applies to Gross Beta: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
	09/13/2006:A - GP219 All analysis quality controls are within established criteria.
908.0	09/14/2006:A218 All preparation quality controls are within established criteria.
	09/16/2006:A - GP214 All analysis quality controls are within established criteria.

Certification: I certify that this data package is in compliance with NELAC Standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following signature.

FGL ENVIRONMENTAL



Kelly A. Dunnahoo, B.S.
Laboratory Director

KAD:cl



ENVIRONMENTAL

Analytical Chemists
September 19, 2006

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

STK0637600:3 COLIFORM BACTERIA ANALYSIS

Customer ID : 3-2703

System Number :

Project Name : Mariposa Lake

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	STK0637600-003	MW-12	Source-Other	Not Available		09/06/2006 08:45	09/06/2006 10:30 CTH	2006-09-09 CTH

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Total	Fecal	Person	Date	Time	Foot Note
1	MW-12	---	---	SM 9221B	MPN/100ml	>23.0 PRESENT	<1.1 ABSENT	N/R			

N/R Not Required.

MPN Most Probable Number

A/P Absence/Presence

**The samples listed below had failures for Total and/or Fecal Coliform as listed:
MW-12 Total Coliform - Failure.**

Treatment: Guidance on well cleanup will be faxed upon requested. Alternatively, we suggest that you contact a qualified well service company

Analyses were performed using Standard Methods 20th edition. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Raquel R. Harvey

RRH:SMH



ANALYTICAL CHEMISTS

October 4, 2006

Kleinfelder Inc.2825 East Myrtle Street
Stockton, CA 95205Description : Travel Blank
Project : Mariposa Lake

Lab ID : STK637600-00

Customer ID: 3-2703

Sampled On : September 6, 2006-00:00

Sampled By : Not Available

Received : September 6, 2006-10:10 Stockton

Received : September 7, 2006-12:00

Matrix : Lab. Blank Water

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 504.1 VOA:1							
1,3-Dibromopropane-Surrogate	112	70-130	% Rec		504.1	09/10/06:A203	09/10/2006:A02
DBCP	ND	0.01	ug/L	0.2	504.1	09/10/06:A203	09/10/2006:A02
EDB	ND	0.02	ug/L	0.05	504.1	09/10/06:A203	09/10/2006:A02
EPA 525.2 AGI:1							
Perylene-d12-Surrogate	102	70-130	% Rec		525.2	09/17/06:A210	09/21/2006:A01
Benzo(a)pyrene	ND	0.1	ug/L	0.2	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)adipate	ND	1	ug/L	400	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)phthalate	ND	3	ug/L	4	525.2	09/17/06:A210	09/21/2006:A01

ND=Non-Detect PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminant Level. ² - Secondary Standard.

Containers: (VOA) VOA, (AGI) Amber Glass TFE-Cap Preservatives: (1) Cool 4°C



ANALYTICAL CHEMISTS

October 4, 2006

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Description : MW-5
Project : Mariposa Lake

Lab ID : STK637600-01
Customer ID: 3-2703

Sampled On : September 6, 2006-08:00
Sampled By : Not Available
Received : September 6, 2006-10:10 Stockton
Received : September 7, 2006-12:00
Matrix : Ground Water

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 531.1 AGT:1,8							
Aldicarb	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Aldicarb Sulfone	ND	3	ug/L	4	531.1	09/18/06:A211	09/19/2006:A00
Aldicarb Sulfoxide	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Carbaryl	ND	5	ug/L		531.1	09/18/06:A211	09/19/2006:A00
Carbofuran	ND	5	ug/L	18	531.1	09/18/06:A211	09/19/2006:A00
3-Hydroxycarbofuran	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Methomyl	ND	2	ug/L		531.1	09/18/06:A211	09/19/2006:A00
Oxamyl	ND	5	ug/L	50	531.1	09/18/06:A211	09/19/2006:A00

ND=Non-Detect PQL=Practical Quantitation Limit ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminant Level ² - Secondary Standard

Containers: (AGT) Amber Glass TFE-Cap Preservatives: (1) Cool 4°C, (8) Monochloroacetic Buffer



ANALYTICAL CHEMISTS

October 4, 2006

Lab ID : STK637600-02
Customer ID: 3-2703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 6, 2006-15:30
Sampled By : Not Available
Received : September 6, 2006-10:10 Stockton
Received : September 7, 2006-12:00
Matrix : Ground Water

Description : MW-12
Project : Mariposa Lake

Sample Results - Inorganic

Constituent	Results	PQL	Units	MCL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral P:1,4 pH	7.6	--	units		4500-H B	09/06/06:S346		09/06/2006:S00 10:30
General Mineral P:1,4 Total Hardness	154	2.5	mg/L		Calculation		Calculation	
Calcium	32	1	mg/L		200.7	09/08/06:B203	200.7	09/08/2006:B00
Magnesium	18	1	mg/L		200.7	09/08/06:B203	200.7	09/08/2006:B00
Potassium	4	1	mg/L		200.7	09/08/06:B203	200.7	09/08/2006:B00
Sodium	32	1	mg/L		200.7	09/08/06:B203	200.7	09/08/2006:B00
Total Cations	4.6	--	meq/L		Calculation		Calculation	
Boron	0.17	0.05	mg/L		200.7	09/08/06:B203	200.7	09/08/2006:B00
Copper	ND	10	ug/L	1000 ²	200.7	09/08/06:B203	200.7	09/08/2006:B00
Iron	240	50	ug/L	300 ²	200.7	09/08/06:B203	200.7	09/08/2006:B00
Manganese	40	10	ug/L	50 ²	200.7	09/08/06:B203	200.7	09/08/2006:B00
Zinc	ND	20	ug/L	5000 ²	200.7	09/08/06:B203	200.7	09/08/2006:B00
Total Alkalinity (as CaCO ₃)	210	10	mg/L		2320B	09/08/06:A202	2320B	09/08/2006:A00
Hydroxide	ND	10	mg/L		2320B	09/08/06:A202	2320B	09/08/2006:A00
Carbonate	ND	10	mg/L		2320B	09/08/06:A202	2320B	09/08/2006:A00
Bicarbonate	260	10	mg/L		2320B	09/08/06:A202	2320B	09/08/2006:A00
Sulfate	13	2	mg/L	500 ²	300.0	09/07/06:C215	300.0	09/08/2006:A00
Chloride	43	1	mg/L	500 ²	300.0	09/07/06:C215	300.0	09/08/2006:A00
Nitrate	1.2	0.4	mg/L	45	300.0	09/07/06:C215	300.0	09/08/2006:A00
Nitrite as N	ND	0.1	mg/L	1		18:00		12:48
					300.0	09/07/06:C215	300.0	09/08/2006:A00
Fluoride	0.2	0.1	mg/L	2		18:00		12:48
Total Anions	5.8	--	meq/L		300.0	09/15/06:C215	300.0	09/16/2006:A00
					Calculation		Calculation	

Table continued next page...

October 4, 2006

Kleinfelder Inc.

Lab ID : STK637600-02

Customer ID: 3-2703

Description : MW-12

Sample Results - Inorganic

Constituent	Results	PQL	Units	MCL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral P:1,4								
Specific Conductance	540	1	umhos/cm	1600 ²	2510B	09/08/06:B212	2510B	09/08/2006:A00
Total Dissolved Solids	320	40	mg/L	1000 ²	2540C	09/11/06:A235	2540 C,E	09/12/2006:A00
MBAS (foaming agents)	ND	0.1	mg/L	0.5 ²	5540C	09/07/06:A218 18:00	5540C	09/07/2006:A00 17:00
Aggressiveness Index	11.8	1.0	mg/L		Calculation		Calculation	
Langlier Index	0.0	1.0	mg/L		Calculation		Calculation	
Wet Chemistry P:1,10								
Color	15	5	units	15 ²	2120C	09/07/06:A208 17:30	2120C	09/07/2006:A00 17:34
Cyanide, Total	ND	0.005	mg/L	0.15	4500CNCE	09/12/06:A210	4500CNCE	09/14/2006:A00
Odor	ND	1	TON	3 ²	2150B	09/07/06:A222 17:30	2150B	09/07/2006:B00 17:32
Turbidity	2380	0.2	NTU	5 ²	2130B	09/07/06:A245 17:30	2130B	09/07/2006:B00 17:36

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminat Level ² - Secondary Standard.

Containers: (P) Plastic Preservatives: (1) Cool 4°C, (4) H2SO4 pH < 2, (10) NaOH



ANALYTICAL CHEMISTS

October 4, 2006

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Description : MW-12
Project : Mariposa Lake

Lab ID : STK637600-02
Customer ID: 3-2703

Sampled On : September 6, 2006-15:30
Sampled By : Not Available
Received : September 6, 2006-10:10 Stockton
Received : September 7, 2006-12:00
Matrix : Ground Water

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 504.1 VOA:1							
1,3-Dibromopropane-Surrogate	115	70-130	% Rec		504.1	09/10/06:A203	09/10/2006:A02
DBCP	ND	0.01	ug/L	0.2	504.1	09/10/06:A203	09/10/2006:A02
EDB	ND	0.02	ug/L	0.05	504.1	09/10/06:A203	09/10/2006:A02
EPA 525.2 AGT:1							
Perylene-d12-Surrogate	101	70-130	% Rec		525.2	09/17/06:A210	09/21/2006:A01
Benzo(a)pyrene	ND	0.1	ug/L	0.2	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)adipate	ND	1	ug/L	400	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)phthalate	ND	3	ug/L	4	525.2	09/17/06:A210	09/21/2006:A01
EPA 505 VOA:1							
Alachlor	ND	0.2	ug/L	2	505	09/11/06:A204	09/19/2006:A00
Aldrin	ND	0.01	ug/L		505	09/11/06:A204	09/19/2006:A00
Chlordane	ND	0.1	ug/L	0.1	505	09/11/06:A204	09/19/2006:A00
Dieldrin	ND	0.01	ug/L		505	09/11/06:A204	09/19/2006:A00
Endrin	ND	0.01	ug/L	2	505	09/11/06:A204	09/19/2006:A00
Heptachlor	ND	0.01	ug/L	0.01	505	09/11/06:A204	09/19/2006:A00
Heptachlor Epoxide	ND	0.01	ug/L	0.01	505	09/11/06:A204	09/19/2006:A00
Hexachlorobenzene	ND	0.01	ug/L	1	505	09/11/06:A204	09/19/2006:A00
Hexachlorocyclopentadiene	ND	0.1	ug/L	50	505	09/11/06:A204	09/19/2006:A00
Lindane	ND	0.05	ug/L	0.2	505	09/11/06:A204	09/19/2006:A00
Methoxychlor	ND	0.1	ug/L	30	505	09/11/06:A204	09/19/2006:A00
Toxaphene	ND	0.5	ug/L	3	505	09/11/06:A204	09/19/2006:A00
PCB 1016	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1221	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00

Table continued next page...

October 4, 2006

Kleinfelder Inc.

Lab ID : STK637600-02

Customer ID: 3-2703

Description : MW-12

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 505 VOA:1							
PCB 1232	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1242	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1248	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1254	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1260	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
EPA 507 AGT:1							
Triphenylphosphate-Surrogate	70.4	70-130	% Rec		507	09/10/06:A205	09/20/2006:B02
Alachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B02
Atrazine	ND	0.5	ug/L	1	507	09/10/06:A205	09/20/2006:B02
Bromacil	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B02
Butachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B02
Diazinon	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B02
Dimethoate	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B02
Metolachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B02
Metribuzin	ND	0.5	ug/L		507	09/10/06:A205	09/20/2006:B02
Molinate	ND	0.5	ug/L	20	507	09/10/06:A205	09/20/2006:B02
Prometryn	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B02
Propachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B02
Simazine	ND	0.5	ug/L	4	507	09/10/06:A205	09/20/2006:B02
Thiobencarb	ND	0.5	ug/L	70 ²	507	09/10/06:A205	09/20/2006:B02
EPA 515.3 AGT:1							
2,4-DCAA-Surrogate	104	70-130	% Rec		515.3	09/18/06:A241	09/22/2006:A00
Bentazon	ND	2	ug/L	18	515.3	09/18/06:A241	09/22/2006:A00
2,4-D	ND	2	ug/L	70	515.3	09/18/06:A241	09/22/2006:A00
Dalapon	ND	10	ug/L	200	515.3	09/18/06:A241	09/22/2006:A00
Dicamba	ND	1	ug/L		515.3	09/18/06:A241	09/22/2006:A00
Dinoseb	ND	2	ug/L	7	515.3	09/18/06:A241	09/22/2006:A00
Pentachlorophenol	ND	0.2	ug/L	1	515.3	09/18/06:A241	09/22/2006:A00
Picloram	ND	1	ug/L	500	515.3	09/18/06:A241	09/22/2006:A00
2,4,5-TP (Silvex)	ND	1	ug/L	50	515.3	09/18/06:A241	09/22/2006:A00
2,4,5-T	ND	1	ug/L		515.3	09/18/06:A241	09/22/2006:A00

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October 4, 2006

Kleinfelder Inc.

Lab ID : STK637600-02

Customer ID: 3-2703

Description : MW-12

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 524.2 VOA:1,3							
4-Bromofluorobenzene-Surrogate	95.3	70-130	% Rec		524.2	09/08/06:A209	09/08/2006:A01
1,2-Dichlorobenzene-d4-Surrogate	84.2	70-130	% Rec		524.2	09/08/06:A209	09/08/2006:A01
Benzene	ND	0.5	ug/L	1	524.2	09/08/06:A209	09/08/2006:A01
Bromobenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Bromochloromethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Bromodichloromethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Bromoform	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Bromomethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
n-Butylbenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
sec-Butylbenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
tert-Butylbenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Carbon Tetrachloride	ND	0.5	ug/L	0.5	524.2	09/08/06:A209	09/08/2006:A01
tert-Butanol	ND	2	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Chlorobenzene	ND	0.5	ug/L	70	524.2	09/08/06:A209	09/08/2006:A01
Chloroethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Chloroform	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Chloromethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
2-Chlorotoluene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
4-Chlorotoluene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Dibromochloromethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Dibromomethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,2-Dichlorobenzene	ND	0.5	ug/L	600	524.2	09/08/06:A209	09/08/2006:A01
1,3-Dichlorobenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,4-Dichlorobenzene	ND	0.5	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
Dichlorodifluoromethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,1-Dichloroethane	ND	0.5	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
1,2-Dichloroethane	ND	0.5	ug/L	0.5	524.2	09/08/06:A209	09/08/2006:A01
1,1-Dichloroethylene	ND	0.5	ug/L	6	524.2	09/08/06:A209	09/08/2006:A01
cis-1,2-Dichloroethylene	ND	0.5	ug/L	6	524.2	09/08/06:A209	09/08/2006:A01
trans-1,2-Dichloroethylene	ND	0.5	ug/L	10	524.2	09/08/06:A209	09/08/2006:A01
1,2-Dichloropropane	ND	0.5	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
1,3-Dichloropropane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Dichloromethane	ND	0.5	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
2,2-Dichloropropane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,1-Dichloropropene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
cis-1,3-Dichloropropene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
trans-1,3-Dichloropropene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Di-isopropyl ether (DIPE)	ND	3	ug/L		524.2	09/08/06:A209	09/08/2006:A01

Table continued next page...

October 4, 2006

Kleinfelder Inc.

Lab ID : STK637600-02

Customer ID: 3-2703

Description : MW-12

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 524.2 VOA:1,3							
Ethyl Benzene	ND	0.5	ug/L	300	524.2	09/08/06:A209	09/08/2006:A01
Ethyl tert-Butyl Ether (ETBE)	ND	3	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Hexachlorobutadiene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Isopropylbenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
p-Isopropyltoluene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Methyl tert-Butyl Ether (MTBE)	ND	3	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
Naphthalene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
n-Propylbenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Styrene	ND	0.5	ug/L	100	524.2	09/08/06:A209	09/08/2006:A01
Tert-amyl-methyl Ether (TAME)	ND	3	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	1	524.2	09/08/06:A209	09/08/2006:A01
Tetrachloroethylene	ND	0.5	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
Toluene	ND	0.5	ug/L	150	524.2	09/08/06:A209	09/08/2006:A01
1,2,3-Trichlorobenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,2,4-Trichlorobenzene	ND	0.5	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
1,1,1-Trichloroethane	ND	0.5	ug/L	200	524.2	09/08/06:A209	09/08/2006:A01
1,1,2-Trichloroethane	ND	0.5	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
Trichloroethylene	ND	0.5	ug/L	5	524.2	09/08/06:A209	09/08/2006:A01
Trichlorofluoromethane	ND	0.5	ug/L	150	524.2	09/08/06:A209	09/08/2006:A01
1,2,3-Trichloropropane	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,1,2-Trichlorotrifluoroethane	ND	0.5	ug/L	1200	524.2	09/08/06:A209	09/08/2006:A01
1,2,4-Trimethylbenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
1,3,5-Trimethylbenzene	ND	0.5	ug/L		524.2	09/08/06:A209	09/08/2006:A01
Vinyl Chloride	ND	0.5	ug/L	0.5	524.2	09/08/06:A209	09/08/2006:A01
Xylenes (Total)	ND	0.5	ug/L	1750	524.2	09/08/06:A209	09/08/2006:A01
Total Trihalomethanes	ND	0.5	ug/L	100	524.2	09/08/06:A209	09/08/2006:A01
EPA 548.1 AGT:1							
Endothall	ND	40	ug/L	100	548.1	09/12/06:A213	09/14/2006:A00
EPA 632 AGT:1							
Diuron	ND	0.1	ug/L		632	09/12/06:A226	09/15/2006:A00

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample

MCL = Maximum Contaminant Level. ² - Secondary Standard.

Containers: (VOA) VOA, (AGT) Amber Glass TFE-Cap Preservatives: (1) Cool 4°C, (3) HCl pH < 2



ANALYTICAL CHEMISTS

October 4, 2006

Lab ID : STK637600-03
Customer ID: 3-2703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 6, 2006-08:45
Sampled By : Not Available
Received : September 6, 2006-10:10 Stockton
Received : September 7, 2006-12:00
Matrix : Ground Water

Description : MW-12
Project : Mariposa Lake

Sample Results - Inorganic

Table with 9 columns: Constituent, Results, PQL, Units, MCL, Sample Preparation (Method, Date/ID), Sample Analysis (Method, Date/ID). Rows include Metals, Total and various elements like Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium.

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample
MCL = Maximum Contaminant Level. ² - Secondary Standard.

Containers: (P) Plastic Preservatives: (1) Cool 4°C, (5) HNO3 pH < 2



ANALYTICAL CHEMISTS

October 4, 2006

Lab ID : STK637600-03
Customer ID: 3-2703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 6, 2006-08:45
Sampled By : Not Available
Received : September 6, 2006-10:10 Stockton
Received : September 7, 2006-12:00
Matrix : Ground Water

Description : MW-12
Project : Mariposa Lake

Sample Results - Organic

Table with 7 columns: Constituents, Results, PQL, Units, MCL, Preparation Method/Date/ID, Analysis Date/ID. Rows include EPA 531.1 AGT:1,8 (Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, Carbaryl, Carbofuran, 3-Hydroxycarbofuran, Methomyl, Oxamyl), EPA 547 AGT:1 (Glyphosate), and EPA 549.2 AST:1 (Diquat).

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample
MCL = Maximum Contaminat Level. 2 - Secondary Standard.

Containers: (AGT) Amber Glass TFE-Cap, (AST) Amber Silanized-TFE Preservatives: (1) Cool 4°C, (8) Monochloroacetic Buffer



ANALYTICAL CHEMISTS

October 4, 2006

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Description : MW-12
Project : Mariposa Lake

Lab ID : STK637600-03
Customer ID: 3-2703

Sampled On : September 6, 2006-08:45
Sampled By : Not Available
Received : September 6, 2006-10:10 Stockton
Received : September 7, 2006-12:00
Matrix : Ground Water

Sample Results - Radio

Table with 7 columns: Constituents, Result ± Error, MDA, Units, MCL, Preparation Method Date/ID, Analysis Method Date/ID. Rows include Radio Chemistry P:1, Gross Alpha, Gross Beta, and Uranium.

MCL = Maximum Contaminat Level. Containers: (P) Plastic Preservatives: (1) Cool 4°C

* Including Radium but excluding Uranium. (Ref. Title 22 sec. 64441.)

CCR Section 64442: Compliance Note: If Gross Alpha (Result + 0.84 x error) exceeds 5 pCi/L but is less than 15 pCi/L run Radium 226
If Gross Alpha (Result + 0.84 x error) exceeds 15 pCi/L. run Uranium Samples that exceed 5 pCi/L are held for 6 months at FGL.

Compliance:

- Gross Alpha - Uranium ≤ 15 pCi/L
Uranium ≤ 20 pCi/L
Radium 226 ≤ 3 pCi/L



ANALYTICAL CHEMISTS

October 4, 2006

Kleinfelder Inc.

Joe Zilles
2825 East Myrtle Street
Stockton, CA 95205

Subject: Dioxin Analysis - FGL Lab No. STK637600

Enclosed are results of the above analysis for your sample received on September 6, 2006.

Please note that the analysis for Dioxin was performed by Severn Trent Laboratories, Inc.

Thank you for using FGL Environmental.

Sincerely,

FGL Environmental

Kelly A. Dunnahoo
Laboratory Director

KAD:cl

Enclosures



STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

September 20, 2006

STL SACRAMENTO PROJECT NUMBER: G6I070261
PO/CONTRACT:

Vickie Taylor
FGL Environmental
853 Corporation Street
P.O. Box 272
Santa Paula, CA 93060-0272

Dear Ms. Taylor,

This report contains the analytical results for the sample received under chain of custody by STL Sacramento on September 7, 2006. This sample is associated with your 637600-(3-2703) project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

Karen Dahl
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6I070261

General Comments

Samples were received at 0 degrees C., but did not appear to be frozen.

One of the containers for sample 1 was labeled with a sampling date of 9/5/06 and a sampling time of 15:30. The sampling date & time listed on the COC were used in the report.

There were no other anomalies associated with this project.

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California	01119CA	Texas	TX-270-2004A
Colorado	NA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C-334
Hawaii	NA	Wisconsin	998204680
Louisiana	01944	NEBSC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		

*NELAP accredited A more detailed parameter list is available upon request. Update 1/27/05

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

G6I070261

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JDWKW 1		MW-12	9/6/2006 08:45 AM	9/7/2006 09:05 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight



ENVIRONMENTAL

Special Subcontract to
STL Sacramento
 www.fgline.com

CHAIN OF CUSTODY
 Laboratory Copy (1 of 3)

32928:09/04/2006

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: Fruit Growers Laboratory, Inc.
 Address: FGL Environmental
 853 Corporation Street
 P.O. Box 272
 Santa Paula, CA 93061-0272

Phone: (805)392-2000 Fax: (805)525-4172

Contact Person:

Project Name: 637600 - (3-2703)

Purchase Order Number:

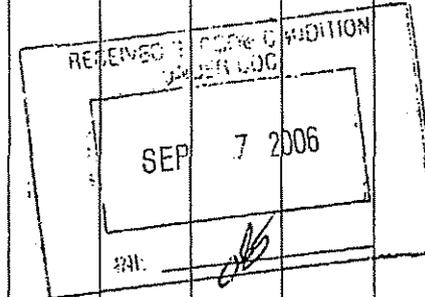
Quote Number: ST20051021_01

Sampler(s): Przem

Sampling Fee: _____ Pickup Fee: _____

Lab Number:

Method of Sampling: Composite(C) Grab(G)
 Type of Sample: **SEE REVERSE SIDE**
 Potable(P) Non-Potable(NP) Ag Water(AgW)
 Bacti: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O)
 Dioxin - HR, EPA 1613B - 2,3,7,8, TCDD
 1000ml(AGT)



Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling	Type of Sample	Potable	Bacti	Dioxin	Other
1	MW-12	9/6/06	0845	G	GW			2	
2				G	GW			2	
3				G	GW			2	
4				G	GW			2	

one bottle labeled 9-506 @ 1530
 on 9-7-06

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
<u>Dr</u>	<u>9/6/06</u>	<u>1700</u>						
Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:
<u>Calover</u>	<u>9/6/06</u>	<u>1700</u>	<u>Cly/Hyl</u>	<u>9-7-06</u>	<u>1500</u>			

STL Sacramento (916) 373 - 5600

Corporate Offices & Laboratory
 P.O. Box 272 / 853 Corporation Street
 Santa Paula, CA 93061-0272
 TEL: (805) 392-2000
 FAX: (805) 525-4172

Office & Laboratory
 2500 Stagecoach Road
 Stockton, CA 95215
 TEL: (209) 942-0182
 FAX: (209) 942-0423

Field Office
 Visalia, California
 TEL: (559) 734-9473
 Mobile: (559) 737-2399
 FAX: (559) 734-8435



STL

LOT RECEIPT CHECKLIST STL Sacramento

CLIENT FGC PM AD LOG # 40920

LOT# (QUANTIMS ID) GGT070240 QUOTE# 30647 LOCATION WISA

DATE RECEIVED 9-7-06 TIME RECEIVED 905 Initials AD Date 9-7-06

DELIVERED BY FEDEX CA OVERNIGHT CLIENT
 AIRBORNE GOLDENSTATE DHL
 UPS BAX GLOBAL GO-GETTERS
 STL COURIER COURIERS ON DEMAND
 OTHER

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) _____

SHIPPING CONTAINER(S) STL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 1 3 OTHER _____

COC #(S) _____

TEMPERATURE BLANK Observed: NA Corrected: _____

SAMPLE TEMPERATURE
Observed: 0 0 0 Average: 0 Corrected Average: 0

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY _____

LABELS CHECKED BY _____

PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING
WETCHEM N/A
VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

Clouseau TEMPERATURE EXCEEDED (2 °C - 6 °C)** N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

Notes: one of two bottles labeled 9-5-06 @ 1530, COC lists 9-6-06 @ 845



STL

Bottle Lot Inventory

Lot ID: G6I070261

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB	2																			
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

FGL Environmental

Client Sample ID: MW-12

Trace Level Organic Compounds

Lot-Sample #...: G6I070261-001 Work Order #...: JDWKW1AA Matrix.....: WATER
Date Sampled...: 09/06/06 Date Received...: 09/07/06
Prep Date.....: 09/11/06 Analysis Date...: 09/13/06
Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra
<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
13C-2,3,7,8-TCDD	65	(25 - 141)		

QC DATA ASSOCIATION SUMMARY

G6I070261

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B-Tetra		6254298	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G6I070261 Work Order #...: JD3NL1AA Matrix.....: WATER
MB Lot-Sample #: G6I110000-298
Analysis Date...: 09/12/06 Prep Date.....: 09/11/06
Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra
	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
<u>INTERNAL STANDARDS</u> 13C-2,3,7,8-TCDD	77	(25 - 141)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G6I070261 Work Order #...: JD3NL1AC Matrix.....: WATER
 LCS Lot-Sample#: G6I110000-298
 Prep Date.....: 09/11/06 Analysis Date...: 09/12/06
 Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,3,7,8-TCDD	200	222	pg/L	111	EPA-5 1613B-T

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	86	(25 - 141)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G6I070261 Work Order #...: JD3NL1AC Matrix.....: WATER
 LCS Lot-Sample#: G6I110000-298
 Prep Date.....: 09/11/06 Analysis Date...: 09/12/06
 Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	111	(73 - 146)	EPA-5 1613B-Tetras

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	86	(25 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

0 Day Rush !

Metals, Total (WATER)

Result Due : / /

Kleinfelder Inc.

Phone # (209)948-1345 x266

Site/Project : Mariposa Lake

Sampled By : Not Available

Description : MW-12

Employed By :

Sampled : 09/06/2006 08:45

Received on : 09/06/2006 10:10

Received From : BS

Type : Ground Water GRAB

Received By : Cha Thao

Containers : A:1Plastic, Cool 4°C, HNO3 pH < 2

Constituent	Method	Units	PQL	Limits
Metals				
Aluminum	200.8	ug/L	10	1000 ²
Antimony	200.8	ug/L	1	6
Arsenic	200.8	ug/L	2	10
Barium	200.8	ug/L	0.2	1000
Beryllium	200.8	ug/L	0.2	4
Cadmium	200.8	ug/L	0.2	5
Lead	200.8	ug/L	0.2	
Mercury	245.2	ug/L	0.01	2
Nickel	200.8	ug/L	1	100
Selenium	200.8	ug/L	2	50
Silver	200.8	ug/L	1	100 ²
Thallium	200.8	ug/L	0.2	2
Vanadium	200.8	ug/L	2	
= => Turbidity Screen	2130B	NTU	0.1	

RELEASED

Comments/Observations:	STK63760003 (3-2703) MW-12
	



October 04, 2006
ANALYTICAL CHEMISTS
Kleinfelder Inc.

Lab ID : STK637600
 Customer : 3-2703

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Aluminum	200.8	09/21/2006:A204 (SP 608822-01)	MS	ug/L	5.000	410%	75-125	435
			MSD	ug/L	5.000	402%	75-125	435
			MSRPD	ug/L		0.44	≤250	
	200.8	09/21/2006:A	00-ICB	ppb		ND	< 10	
			00-CCB	ppb		ND	< 10	
			00-ICV	ppb	120.0	91.1%	90-110	
			00-CCV	ppb	100.0	101%	90-110	
Antimony	200.8	09/21/2006:A204 (SP 608822-01)	MS	ug/L	5.000	1.7%	75-125	435
			MSD	ug/L	5.000	0.2%	75-125	435
			MSRPD	ug/L		0.075	≤25.0	
	200.8	09/21/2006:A	00-ICB	ppb		ND	< 1	
			00-CCB	ppb		ND	< 1	
			00-ICV	ppb	120.0	95.4%	90-110	
			00-CCV	ppb	100.0	95.2%	90-110	
Arsenic	200.8	09/21/2006:A204 (SP 608822-01)	MS	ug/L	5.000	7.5%	75-125	435
			MSD	ug/L	5.000	-2.8%	75-125	435
			MSRPD	ug/L		0.52	≤50.0	
	200.8	09/21/2006:A	00-ICB	ppb		ND	< 2	
			00-CCB	ppb		ND	< 2	
			00-ICV	ppb	120.0	96.2%	90-110	
			00-CCV	ppb	100.0	97.8%	90-110	
Barium	200.8	09/21/2006:A204 (SP 608822-01)	MS	ug/L	5.000	-3.5%	< ¼	408
			MSD	ug/L	5.000	-5.1%	< ¼	408
			MSRPD	ug/L		0.080	≤5.00	
	200.8	09/21/2006:A	00-ICB	ppb		ND	< 0.2	
			00-CCB	ppb		ND	< 0.2	
			00-ICV	ppb	120.0	90.2%	90-110	
			00-CCV	ppb	100.0	101%	90-110	
Beryllium	200.8	09/21/2006:A204 (SP 608822-01)	MS	ug/L	5.000	0.4%	75-125	435
			MSD	ug/L	5.000	0.3%	75-125	435
			MSRPD	ug/L		0.0050	≤5.00	
	200.8	09/21/2006:A	00-ICB	ppb		ND	< 0.2	
			00-CCB	ppb		ND	< 0.2	
			00-ICV	ppb	120.0	96.2%	90-110	
			00-CCV	ppb	100.0	103%	90-110	
Boron	200.7	09/08/2006:B203 (SP 609032-01)	MS	mg/L	4.000	105%	75-125	
			MSD	mg/L	4.000	96.9%	75-125	
			MSRPD	mg/L		6.9%	≤20.0	
	200.7	09/08/2006:B	00-ICB	ppm		ND	< 0.1	
			00-CCB	ppm		ND	< 0.1	
			00-ICV	ppm	5.000	100%	95-105	
			00-CCV	ppm	5.000	98.3%	90-110	
Cadmium	200.8	09/21/2006:A204	MS	ug/L	5.000	-0.2%	75-125	435

Report continued on next page...

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Cadmium	200.8	09/21/2006:A204	MSD MSRPD	ug/L ug/L	5.000	-1.0% 0.040	75-125 ≤ 5.00	435
	200.8	09/21/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 95.7% 101%	< 0.2 < 0.2 90-110 90-110	
Calcium	200.7	09/08/2006:B203 (SP 609032-01)	MS MSD MSRPD	mg/L mg/L mg/L	12.50 12.50	132% 55.4% 7.4%	< ¼ < ¼ ≤ 20.0	408 408
	200.7	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	25.00 25.00	ND ND 97.1% 95.4%	< 1 < 1 95-105 90-110	
Copper	200.7	09/08/2006:B203 (SP 609032-01)	MS MSD MSRPD	ug/L ug/L ug/L	800.0 800.0	107% 98.7% 7.7%	75-125 75-125 ≤ 20.0	
	200.7	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	1.000 1.000	ND ND 97.7% 99.7%	< 0.01 < 0.01 95-105 90-110	
Iron	200.7	09/08/2006:B203 (SP 609032-01)	MS MSD MSRPD	ug/L ug/L ug/L	4000 4000	106% 95.1% 8.4%	75-125 75-125 ≤ 20.0	
	200.7	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	5.000 5.000	ND ND 100% 98.9%	< 0.05 < 0.05 95-105 90-110	
Lead	200.8	09/21/2006:A204 (SP 608822-01)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	-91.0% -129% 0.8%	< ¼ < ¼ ≤ 20	408 408
	200.8	09/21/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 90.3% 99.2%	< 0.2 < 0.2 90-110 90-110	
Magnesium	200.7	09/08/2006:B203 (SP 609032-01)	MS MSD MSRPD	mg/L mg/L mg/L	12.50 12.50	116% 86.3% 7.6%	75-125 75-125 ≤ 20.0	
	200.7	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	25.00 25.00	ND ND 96.2% 97.6%	< 1 < 1 95-105 90-110	
Manganese	200.7	09/08/2006:B203	MS	ug/L	800.0	109%	75-125	

Report continued on next page...

October 04, 2006
 Kleinfelder Inc.

Lab ID : STK637600
 Customer : 3-2703

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Manganese	200.7	09/08/2006:B203	MSD MSRPD	ug/L ug/L	800.0	96.1% 6.3%	75-125 ≤20.0	
	200.7	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	1.000 1.000	ND ND 101% 101%	<0.01 <0.01 95-105 90-110	
Mercury	7470A	09/13/2006:A212 (SP 608915-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	0.2000 0.2000 0.2000	ND 99.0% 91.3% 97.8% 6.5%	<0.02 85-115 75-125 75-125 ≤20	
	245.1	09/13/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	PPT PPT PPT PPT	200.0 200.0	ND ND 101% 100%	<20 <20 90-110 90-110	
Nickel	200.8	09/21/2006:A204 (SP 608822-01)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	15.5% 14.1% 0.070	75-125 75-125 ≤25.0	435 435
	200.8	09/21/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 91.6% 100%	<1 <1 90-110 90-110	
Potassium	200.7	09/08/2006:B203 (SP 609032-01)	MS MSD MSRPD	mg/L mg/L mg/L	12.50 12.50	120% 109% 7.2%	75-125 75-125 ≤20.0	
	200.7	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	25.00 25.00	ND ND 94.7% 98.9%	<1 <1 95-105 90-110	
Selenium	200.8	09/21/2006:A204 (SP 608822-01)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	14.8% -8.6% 1.2	75-125 75-125 ≤50.0	435 435
	200.8	09/21/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 97.7% 95.3%	<2 <2 90-110 90-110	
Silver	200.8	09/21/2006:A204 (SP 608822-01)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	0.6% -0.2% 0.040	75-125 75-125 ≤25.0	435 435
	200.8	09/21/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 94.3% 99.5%	<1 <1 90-110 90-110	

Report continued on next page...

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Sodium	200.7	09/08/2006:B203 (SP 609032-01)	MS	mg/L.	12.50	140%	< ¼	408
			MSD	mg/L.	12.50	78.2%	< ¼	408
			MSRPD	mg/L.		6.9%	≤ 20.0	
	200.7	09/08/2006:B	00-ICB	ppm		ND	< 1	
00-CCB			ppm		ND	< 1		
00-ICV			ppm	25.00	98.1%	95-105		
00-CCV			ppm	25.00	95.4%	90-110		
Thallium	200.8	09/21/2006:A204 (SP 608822-01)	MS	ug/L.	5.000	1.0%	75-125	435
			MSD	ug/L.	5.000	0.6%	75-125	435
			MSRPD	ug/L.		0.020	≤ 5.00	
	200.8	09/21/2006:A	00-ICB	ppb		ND	< 0.2	
00-CCB			ppb		ND	< 0.2		
00-ICV			ppb	120.0	91.1%	90-110		
00-CCV			ppb	100.0	98.7%	90-110		
Vanadium	200.8	09/21/2006:A204 (SP 608822-01)	MS	ug/L.	5.000	15.6%	75-125	435
			MSD	ug/L.	5.000	17.4%	75-125	435
			MSRPD	ug/L.		0.090	≤ 50.0	
	200.8	09/21/2006:A	00-ICB	ppb		ND	< 2	
00-CCB			ppb		ND	< 2		
00-ICV			ppb	120.0	92.6%	90-110		
00-CCV			ppb	100.0	101%	90-110		
Zinc	200.7	09/08/2006:B203 (SP 609032-01)	MS	ug/L.	2000	101%	75-125	
			MSD	ug/L.	2000	92.5%	75-125	
			MSRPD	ug/L.		8.4%	≤ 20.0	
	200.7	09/08/2006:B	00-ICB	ppm		ND	< 0.02	
00-CCB			ppm		ND	< 0.02		
00-ICV			ppm	1.000	99.7%	95-105		
00-CCV			ppm	1.000	95.0%	90-110		
Wet Chem Bicarbonate	2320B	09/08/2006:A202	Dup	mg/L.		0.7%	14.3	
Carbonate	2320B		Dup	mg/L.		0.00	10	
Chloride	300.0	09/07/2006:C215 (SP 608979-05)	LCS	mg/L.	25.00	97.2%	90-110	
			MS	mg/L.	500.0	104%	93-110	
			MSD	mg/L.	500.0	105%	93-110	
			MSRPD	mg/L.		1.1%	≤ 3.02	
	300.0	09/07/2006:A	00-ICB	ppm		ND	< 1	
00-CCB			ppm		ND	< 1		
00-ICV			ppm	50.00	97.2%	90-110		
00-CCV			ppm	25.00	93.7%	90-110		
Color	2120C	09/07/2006:A208	Dup	units		0.00	5.0	
	2120C	09/07/2006:A	00-CCB	units		ND	< 5	

Report continued on next page.

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Color	2120C	09/07/2006:A	00-CCV	units	10.00	100%	90-110	
Cyanide, Total	4500CNCE	09/12/2006:A210 (SP 608717-01)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	0.1000 0.05000 0.05000	ND 110% 95.9% 96.9% 1.1%	<0.005 90-110 10-155 10-155 ≤48.7	
Cyanide	4500CNCE	09/14/2006:A	00-CCB 00-CCV	mg/L mg/L	0.1000	ND 105%	<0.01 90-110	
Fluoride	300.0	09/15/2006:C215 (STK637658-03)	LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L	2.500 50.00 50.00	102% 100% 100% 0.2%	90-110 90-109 90-109 ≤4.56	
	300.0	09/15/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	5.000 2.500	ND ND 107% 109%	<0.1 <0.1 90-110 90-110	
Hydroxide	2320B	09/08/2006:A202	Dup	mg/L		0.00	10	
MBAS (foaming agents)	5540C	09/07/2006:A218 (SP 609027-01)	MS MSD MSRPD	mg/L mg/L mg/L	0.1000 0.1000	100% 100% 0.00	90-110 90-110 ≤0.100	
	5540C	09/07/2006:A	00-CCB 00-CCV	mg/L mg/L	0.1000	ND 100%	<0.1 99-101	
Nitrate	300.0	09/07/2006:C215 (SP 608979-05)	LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L	20.00 400.0 400.0	96.7% 102% 103% 1.0%	90-110 94-111 94-111 ≤2.71	
	300.0	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	40.00 20.00	ND ND 95.7% 94.0%	<0.4 <0.4 90-110 90-110	
Nitrite	300.0	09/07/2006:C215 (SP 608979-05)	LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L	15.00 300.0 300.0	96.0% 103% 104% 1.2%	90-110 94-109 94-109 ≤2.61	
	300.0	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	30.00 15.00	ND ND 96.8% 93.2%	<0.3 <0.3 90-110 90-110	
Odor	2150B	09/07/2006:A222	Dup	TON		0.00	1.0	
pH	4500-H B	09/06/2006:S346	Dup	units		0.1%	4.80	
		09/06/2006:S	00-CCV	units	8.000	100%	95-105	

Report continued on next page.

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Specific Conductance	2510B	09/08/2006:B212	Blank Dup	umhos/cm umhos/cm		ND 0.1%	<1 0.743	
	2510B	09/08/2006:A	00-ICB 00-ICV 00-CCV	umhos/cm umhos/cm umhos/cm	10000 1006	ND 99.5% 99.0%	<1 95-105 95-105	
Sulfate	300.0	09/07/2006:C215 (SP 608979-05)	LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L	50.00 1000 1000	94.9% 102% 103% 1.1%	90-110 96-113 96-113 ≤2.29	
	300.0	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	100.0 50.00	ND ND 94.6% 91.9%	<2 <2 90-110 90-110	
Total Alkalinity (as CaCO3)	2320B	09/08/2006:A202	Dup	mg/L		0.7%	9.03	
	2320B	09/08/2006:A	00-ICV 00-CCV	mg/l mg/l	234.9 234.9	92.9% 92.1%	90-110 90-110	
Total Dissolved Solids	2540C	09/11/2006:A235	Blank LCS Dup	mg/L mg/L mg/L	1000	ND 99.6% 0.4%	<40 90-110 10.0	
Turbidity	2130B	09/07/2006:A245	Dup	NTU		0.8%	3.23	
	2130B	09/07/2006:B	00-CCB 00-CCV	NTU NTU	2.000	ND 99.0%	<0.2 90-110	

Explanations

- 220 The absolute value of the CCB was greater than the DQO. However, all results were either five times greater than the CCB concentration or ND relative to the PQL.
- 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
- 408 Matrix Spike(MS) or Post Digestion Spike(PDS) has no Acceptance Range (DQO) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.
- 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Definitions

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- <¼ : High Sample Background - Spike concentration was less than one fourth of the sample concentration.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

October 04, 2006
 Kleinfelder Inc.

Lab ID : STK637600
 Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
DBCP	504.1	09/10/2006:A203 (SP 609021-01)	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.2941	95.0%	70-130	
			MS	ug/L	0.2941	98.6%	70-130	
			MSD	ug/L	0.2941	92.2%	70-130	
			MSRPD	ug/L		6.7%	≤30	
	504.1	09/10/2006:A	01-CCV	ug/L	5.000	94.0%	70-130	
			02-CCV	ug/L	10.00	108%	70-130	
1,3-Dibromopropane-Surrogate	504.1	09/10/2006:A203 (SP 609021-01)	Blank	ug/L	0.5882	111%	70-130	
			LCS	ug/L	0.5882	108%	70-130	
			MS	ug/L	0.5882	108%	70-130	
			MSD	ug/L	0.5882	107%	70-130	
	504.1	09/10/2006:A	01-CCV	ug/L	9.975	106%	70-130	
			02-CCV	ug/L	9.975	116%	70-130	
EDB	504.1	09/10/2006:A203 (SP 609021-01)	Blank	ug/L	0.2941	0.011	<0.01	
			LCS	ug/L	0.2941	101%	70-130	
			MS	ug/L	0.2941	102%	70-130	
			MSD	ug/L	0.2941	103%	70-130	
			MSRPD	ug/L		1.2%	≤30	
	504.1	09/10/2006:A	01-CCV	ug/L	5.000	99.2%	70-130	
			02-CCV	ug/L	10.00	107%	70-130	
Alachlor	505	09/11/2006:A204	Blank	ug/L		ND	<0.2	
			LCS	ug/L	1.476	135%	40-148	
			BS	ug/L	1.476	119%	43-145	
			BSD	ug/L	1.476	130%	43-145	
			BSRPD	ug/L		8.2%	≤52.4	
	505	09/18/2006:A	00-CCV	ug/L	100.0	115%	70-130	
Aldrin	505	09/11/2006:A204	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.5882	129%	48-164	
			BS	ug/L	0.5882	127%	49-155	
			BSD	ug/L	0.5882	128%	49-155	
			BSRPD	ug/L		1.1%	≤33.3	
	505	09/18/2006:A	00-CCV	ug/L	10.00	111%	70-130	
Chlordane	505	09/11/2006:A204	Blank	ug/L		ND	<0.1	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
Dieldrin	505	09/11/2006:A204	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.5882	112%	41-146	
			BS	ug/L	0.5882	112%	47-138	
			BSD	ug/L	0.5882	113%	47-138	
			BSRPD	ug/L		0.7%	≤39.6	
	505	09/18/2006:A	00-CCV	ug/L	10.00	109%	70-130	
Endrin	505	09/11/2006:A204	Blank	ug/L		ND	<0.01	

Report continued on next page...

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Endrin	505	09/11/2006:A204	LCS	ug/L	0.5882	118%	53-147	
			BS	ug/L	0.5882	116%	53-146	
BSD			ug/L	0.5882	116%	53-146		
BSRPD			ug/L		0.5%	≤46.7		
	09/18/2006:A	00-CCV	ug/L	10.00	112%	70-130		
Heptachlor	505	09/11/2006:A204	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.5882	122%	50-157	
BS			ug/L	0.5882	120%	51-150		
BSD			ug/L	0.5882	121%	51-150		
	09/18/2006:A	00-CCV	ug/L	10.00	111%	70-130		
Heptachlor Epoxide	505	09/11/2006:A204	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.5882	114%	57-145	
BS			ug/L	0.5882	113%	53-148		
BSD			ug/L	0.5882	114%	53-148		
	09/18/2006:A	00-CCV	ug/L	10.00	109%	70-130		
Hexachlorobenzene	505	09/11/2006:A204	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.2941	120%	49-156	
BS			ug/L	0.2941	118%	49-152		
BSD			ug/L	0.2941	119%	49-152		
	09/18/2006:A	00-CCV	ug/L	10.00	111%	70-130		
Hexachlorocyclopentadiene	505	09/11/2006:A204	Blank	ug/L		ND	<0.1	
			LCS	ug/L	0.5882	120%	57-151	
BS			ug/L	0.5882	114%	0-343		
BSD			ug/L	0.5882	115%	0-343		
	09/18/2006:A	00-CCV	ug/L	10.00	124%	70-130		
Lindane	505	09/11/2006:A204	Blank	ug/L		ND	<0.05	
			LCS	ug/L	0.5882	122%	34-161	
BS			ug/L	0.5882	120%	35-165		
BSD			ug/L	0.5882	121%	35-165		
	09/18/2006:A	00-CCV	ug/L	10.00	110%	70-130		
Methoxychlor	505	09/11/2006:A204	Blank	ug/L		ND	<0.1	
			LCS	ug/L	5.900	111%	48-157	
BS			ug/L	5.900	109%	55-149		
BSD			ug/L	5.900	107%	55-149		
	09/18/2006:A	00-CCV	ug/L	50.00	111%	70-130		
PCB 1016	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
PCB 1016	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1221	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1232	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1242	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1248	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1254	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1260	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
Toxaphene	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
Alachlor	507	09/10/2006:A205	Blank	ug/L		ND	<1	410
			LCS	ug/L	2.500	118%	70-130	
BS			ug/L	2.500	107%	74-218		
BSD			ug/L	2.500	152%	74-218		
	507	09/19/2006:B	01-CCV	ug/L	500.0	135%	80-120	360
			02-CCV	ug/L	1000	112%	80-120	
Atrazine	507	09/10/2006:A205	Blank	ug/L		ND	<0.5	
			LCS	ug/L	2.500	123%	70-130	
BS			ug/L	2.500	142%	82-210		
BSD			ug/L	2.500	170%	82-210		
	507	09/19/2006:B	01-CCV	ug/L	500.0	125%	80-120	360
			02-CCV	ug/L	1000	110%	80-120	
Bromacil	507	09/10/2006:A205	Blank	ug/L		ND	<2	310
			LCS	ug/L	2.500	138%	70-130	
BS			ug/L	2.500	128%	77-216		
BSD			ug/L	2.500	183%	77-216		
	507	09/19/2006:B	01-CCV	ug/L	500.0	109%	80-120	

Report continued on next page...

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Bromacil	507	09/19/2006:B	02-CCV	ug/L	1000	117%	80-120	
Butachlor	507	09/10/2006:A205	Blank	ug/L		ND	<1	310
			LCS	ug/L	2.500	144%	70-130	
Butachlor	507	09/19/2006:B	BS	ug/L	2.500	141%	58-222	360
			BSD	ug/L	2.500	164%	58-222	
Butachlor	507	09/19/2006:B	BSRPD	ug/L		0.59	≤1.00	360
			01-CCV	ug/L	500.0	142%	80-120	
Butachlor	507	09/19/2006:B	02-CCV	ug/L	1000	110%	80-120	360
Diazinon	507	09/10/2006:A205	Blank	ug/L		ND	<2	
			LCS	ug/L	2.500	109%	70-130	
Diazinon	507	09/19/2006:B	BS	ug/L	2.500	121%	52-199	360
			BSD	ug/L	2.500	162%	52-199	
Diazinon	507	09/19/2006:B	BSRPD	ug/L		1.0	≤2.00	360
			01-CCV	ug/L	500.0	134%	80-120	
Diazinon	507	09/19/2006:B	02-CCV	ug/L	1000	120%	80-120	360
Dimethoate	507	09/10/2006:A205	Blank	ug/L		ND	<2	310
			LCS	ug/L	2.500	134%	70-130	
Dimethoate	507	09/19/2006:B	BS	ug/L	2.500	149%	68-206	360
			BSD	ug/L	2.500	183%	68-206	
Dimethoate	507	09/19/2006:B	BSRPD	ug/L		0.85	≤2.00	360
			01-CCV	ug/L	500.0	134%	80-120	
Dimethoate	507	09/19/2006:B	02-CCV	ug/L	1000	127%	80-120	360
Metolachlor	507	09/10/2006:A205	Blank	ug/L		ND	<1	
			LCS	ug/L	2.500	107%	70-130	
Metolachlor	507	09/19/2006:B	BS	ug/L	2.500	138%	69-215	360
			BSD	ug/L	2.500	161%	69-215	
Metolachlor	507	09/19/2006:B	BSRPD	ug/L		0.58	≤1.00	360
			01-CCV	ug/L	500.0	123%	80-120	
Metolachlor	507	09/19/2006:B	02-CCV	ug/L	1000	107%	80-120	360
Metribuzin	507	09/10/2006:A205	Blank	ug/L		ND	<0.5	
			LCS	ug/L	2.500	130%	70-130	
Metribuzin	507	09/19/2006:B	BS	ug/L	2.500	142%	67-232	360
			BSD	ug/L	2.500	185%	67-232	
Metribuzin	507	09/19/2006:B	BSRPD	ug/L		26.7%	≤40.9	360
			01-CCV	ug/L	500.0	145%	80-120	
Metribuzin	507	09/19/2006:B	02-CCV	ug/L	1000	120%	80-120	360
Molinate	507	09/10/2006:A205	Blank	ug/L		ND	<0.5	
			LCS	ug/L	2.500	104%	70-130	
Molinate	507	09/19/2006:B	BS	ug/L	2.500	142%	62-239	410
			BSD	ug/L	2.500	181%	62-239	
Molinate	507	09/19/2006:B	BSRPD	ug/L		24.2%	≤20.4	360
			01-CCV	ug/L	500.0	125%	80-120	
Molinate	507	09/19/2006:B	02-CCV	ug/L	1000	105%	80-120	360

Report continued on next page...

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Prometryn	507	09/10/2006:A205	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L	2.500 2.500 2.500	ND 128% 137% 177% 1.0	<2 70-130 76-204 76-204 ≤2.00	
	507	09/19/2006:B	01-CCV 02-CCV	ug/L ug/L	500.0 1000	138% 121%	80-120 80-120	360 360
Propachlor	507	09/10/2006:A205	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L	2.500 2.500 2.500	ND 97.0% 138% 167% 0.72	<1 70-130 75-219 75-219 ≤1.00	
	507	09/19/2006:B	01-CCV 02-CCV	ug/L ug/L	500.0 1000	127% 103%	80-120 80-120	360
Simazine	507	09/10/2006:A205	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L	2.500 2.500 2.500	ND 133% 148% 176% 16.5%	<0.5 70-130 83-211 83-211 ≤21.1	310
	507	09/19/2006:B	01-CCV 02-CCV	ug/L ug/L	500.0 1000	128% 109%	80-120 80-120	360
Thiobencarb	507	09/10/2006:A205	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L	2.500 2.500 2.500	ND 115% 140% 170% 19.3%	<0.5 70-130 78-211 78-211 ≤23.1	
	507	09/19/2006:B	01-CCV 02-CCV	ug/L ug/L	500.0 1000	136% 125%	80-120 80-120	360 360
Triphenylphosphate-Surrogate	507	09/10/2006:A205	Blank LCS BS BSD	ug/L ug/L ug/L ug/L	12.50 12.50 12.50 12.50	ND 65.5% 68.9% 77.7%	70-130 70-130 70-130 70-130	565 565 560
	507	09/19/2006:B	01-CCV 02-CCV	ug/L ug/L	2500 7500	132% 123%	80-120 80-120	565 565
Bentazon	515.3	09/21/2006:A	00-CCV	ug/L	80.00	118%	70-130	
2,4-D	515.3		00-CCV	ug/L	80.00	122%	70-130	
2,4-DCAA-Surrogate	515.3		00-CCV	ug/L	200.0	99.1%	70-130	
Dalapon	515.3		00-CCV	ug/L	520.0	111%	70-130	
Dicamba	515.3		00-CCV	ug/L	40.00	108%	70-130	
Dinoseb	515.3		00-CCV	ug/L	80.00	123%	70-130	

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October 04, 2006
 Kleinfelder Inc.

Lab ID : STK637600
 Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Pentachlorophenol	515.3	09/21/2006:A	00-CCV	ug/L	40.00	105%	70-130	
Picloram	515.3		00-CCV	ug/L	40.00	99.6%	70-130	
2,4,5-T	515.3		00-CCV	ug/L	40.00	106%	70-130	
2,4,5-TP (Silvex)	515.3		00-CCV	ug/L	40.00	107%	70-130	
Benzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 113% 114% 0.6%	<0.5 70-129 70-129 ≤14.3	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	102%	70-130	
Bromobenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 110% 98.2% 11.0%	<0.5 64-140 64-140 ≤17.1	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	77.9%	70-130	
Bromochloromethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 87.5% 120% 31.0%	<0.5 63-153 63-153 ≤19.6	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	98.4%	70-130	
Bromodichloromethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 120% 102% 16.6%	<0.5 75-140 75-140 ≤15.6	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	88.8%	70-130	
4-Bromofluorobenzene-Surrogate	524.2	09/08/2006:A209	Blank BS BSD	ug/L ug/L ug/L	10.00 10.00 10.00	91.7% 125% 112%	70-130 70-130 70-130	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	88.4%	70-130	
Bromoform	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 115% 98.1% 15.9%	<0.5 69-140 69-140 ≤18.7	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	80.8%	70-130	
Bromomethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 117% 102% 13.8%	<0.5 53-144 53-144 ≤17.9	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	84.5%	70-130	

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October 04, 2006
 Kleinfelder Inc.

Lab ID : STK637600
 Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
tert-Butanol	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	50.00 50.00	ND 127% 121% 5.3%	<2 42-165 42-165 ≤38.8	
	524.2	09/08/2006:A	00-CCV	ug/L	50.00	105%	70-130	
n-Butylbenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 137% 112% 20.7%	<0.5 72-117 72-117 ≤17.8	426 410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	98.9%	70-130	
sec-Butylbenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 128% 101% 23.4%	<0.5 63-118 63-118 ≤18.2	426 410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	90.2%	70-130	
tert-Butylbenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 117% 97.8% 17.8%	<0.5 54-129 54-129 ≤18.7	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	84.0%	70-130	
Carbon Tetrachloride	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 110% 136% 21.5%	<0.5 51-158 51-158 ≤15.0	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	120%	70-130	
Chlorobenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 105% 89.5% 15.8%	<0.5 30-160 30-160 ≤16.1	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	74.0%	70-130	
Chloroethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 133% 111% 17.7%	<0.5 58-131 58-131 ≤18.0	426
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	93.2%	70-130	
Chloroform	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 108% 125% 14.7%	<0.5 74-137 74-137 ≤18.2	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	107%	70-130	

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October 04, 2006
 Kleinfelder Inc.

Lab ID : STK637600
 Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Chloromethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 132% 107% 21.1%	<0.5 35-131 35-131 ≤23.3	426
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	89.9%	70-130	
2-Chlorotoluene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 129% 105% 20.0%	<0.5 67-126 67-126 ≤16.3	426 410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	90.6%	70-130	
4-Chlorotoluene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 123% 103% 18.0%	<0.5 68-124 68-124 ≤17.8	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	87.8%	70-130	
Di-isopropyl ether (DIPE)	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 131% 116% 1.5	<3 52-128 52-128 ≤3.00	426
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	94.6%	70-130	
Dibromochloromethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 112% 91.3% 20.5%	<0.5 59-139 59-139 ≤22.0	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	77.8%	70-130	
Dibromomethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 117% 100% 15.5%	<0.5 79-155 79-155 ≤17.2	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	87.8%	70-130	
1,2-Dichlorobenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 124% 103% 18.6%	<0.5 59-147 59-147 ≤17.3	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	89.7%	70-130	
1,3-Dichlorobenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 122% 101% 18.4%	<0.5 63-137 63-137 ≤16.0	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	84.9%	70-130	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
1,4-Dichlorobenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 120% 102% 16.1%	<0.5 60-137 60-137 ≤17.9	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	93.0%	70-130	
1,2-Dichlorobenzene-d4-Surrogate	524.2	09/08/2006:A209	Blank BS BSD	ug/L ug/L ug/L	10.00 10.00 10.00	81.8% 126% 111%	70-130 70-130 70-130	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	90.8%	70-130	
Dichlorodifluoromethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 118% 92.7% 23.7%	<0.5 27-138 27-138 ≤43.4	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	80.4%	70-130	
1,1-Dichloroethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 130% 116% 11.0%	<0.5 56-121 56-121 ≤15.4	426
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	97.0%	70-130	
1,2-Dichloroethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 127% 131% 3.4%	<0.5 67-158 67-158 ≤14.3	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	129%	70-130	
1,1-Dichloroethylene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 140% 114% 20.1%	<0.5 62-120 62-120 ≤18.1	426 410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	97.4%	70-130	
cis-1,2-Dichloroethylene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 91.7% 107% 15.2%	<0.5 66-129 66-129 ≤16.1	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	92.7%	70-130	
trans-1,2-Dichloroethylene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 119% 101% 16.5%	<0.5 63-130 63-130 ≤16.9	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	86.0%	70-130	
Dichloromethane	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Dichloromethane	524.2	09/08/2006:A209	BS BSD BSRPD	ug/L ug/L ug/L	10.00 10.00	132% 108% 19.5%	74-123 74-123 ≤13.8	426 410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	92.4%	70-130	
1,2-Dichloropropane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 118% 106% 10.7%	<0.5 57-135 57-135 ≤13.5	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	87.2%	70-130	
1,3-Dichloropropane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 121% 102% 16.7%	<0.5 41-159 41-159 ≤26.9	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	81.4%	70-130	
2,2-Dichloropropane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 106% 121% 13.6%	<0.5 57-163 57-163 ≤16.4	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	108%	70-130	
1,1-Dichloropropene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 113% 122% 7.4%	<0.5 70-128 70-128 ≤14.5	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	106%	70-130	
cis-1,3-Dichloropropene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 113% 100% 12.4%	<0.5 61-135 61-135 ≤20.7	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	78.6%	70-130	
trans-1,3-Dichloropropene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 110% 100% 9.6%	<0.5 58-146 58-146 ≤25.8	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	79.8%	70-130	
Ethyl Benzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 118% 96.7% 19.9%	<0.5 55-136 55-136 ≤15.7	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	81.1%	70-130	
Ethyl tert-Butyl Ether (ETBE)	524.2	09/08/2006:A209	Blank	ug/L		ND	<3	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Ethyl tert-Butyl Ether (ETBE)	524.2	09/08/2006:A209	BS	ug/L	10.00	102%	58-119	
			BSD	ug/L	10.00	109%	58-119	
			BSRPD	ug/L		0.67	≤ 3.00	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	88.1%	70-130	
Hexachlorobutadiene	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	148%	62-165	
			BSD	ug/L	10.00	117%	62-165	
			BSRPD	ug/L		23.1%	≤ 20.2	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	101%	70-130	
Isopropylbenzene	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	110%	53-127	
			BSD	ug/L	10.00	92.3%	53-127	
			BSRPD	ug/L		17.2%	≤ 16.2	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	82.3%	70-130	
p-Isopropyltoluene	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	124%	57-128	
			BSD	ug/L	10.00	105%	57-128	
			BSRPD	ug/L		17.4%	≤ 19.4	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	91.1%	70-130	
Methyl tert-Butyl Ether (MTBE)	524.2	09/08/2006:A209	Blank	ug/L		ND	<1	
			BS	ug/L	10.00	127%	66-133	
			BSD	ug/L	10.00	113%	66-133	
			BSRPD	ug/L		11.8%	≤ 20.3	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	92.1%	70-130	
Naphthalene	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	137%	22-192	
			BSD	ug/L	10.00	127%	22-192	
			BSRPD	ug/L		7.8%	≤ 39.5	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	105%	70-130	
n-Propylbenzene	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	120%	69-116	426
			BSD	ug/L	10.00	105%	69-116	
			BSRPD	ug/L		13.5%	≤ 16.9	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	86.0%	70-130	
Styrene	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	114%	50-143	
			BSD	ug/L	10.00	94.8%	50-143	
			BSRPD	ug/L		18.2%	≤ 15.5	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	79.0%	70-130	
Tert-amyl-methyl Ether (TAME)	524.2	09/08/2006:A209	Blank	ug/L		ND	<3	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Tert-amyl-methyl Ether (TAME)	524.2	09/08/2006:A209	BS BSD BSRPD	ug/L ug/L ug/L	10.00 10.00	105 % 112 % 0.74	49-141 49-141 ≤3.00	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	98.1 %	70-130	
1,1,1,2-Tetrachloroethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 112 % 94.2 % 16.9 %	<0.5 52-154 52-154 ≤15.6	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	79.1 %	70-130	
1,1,2,2-Tetrachloroethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 119 % 103 % 14.3 %	<0.5 89-169 89-169 ≤27.4	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	90.7 %	70-130	
Tetrachloroethylene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 104 % 81.9 % 23.6 %	<0.5 55-143 55-143 ≤29.0	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	73.6 %	70-130	
Toluene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 112 % 94.2 % 17.7 %	<0.5 63-134 63-134 ≤16.1	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	77.4 %	70-130	
1,2,3-Trichlorobenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 135 % 123 % 9.4 %	<0.5 54-165 54-165 ≤22.6	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	99.1 %	70-130	
1,2,4-Trichlorobenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 121 % 109 % 10.5 %	<0.5 59-151 59-151 ≤21.3	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	88.8 %	70-130	
1,1,1-Trichloroethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 112 % 140 % 22.3 %	<0.5 56-171 56-171 ≤16.4	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	121 %	70-130	
1,1,2-Trichloroethane	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	

Report continued on next page...

October 04, 2006
Kleinfelder Inc.

Lab ID : STK637600
Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
1,1,2-Trichloroethane	524.2	09/08/2006:A209	BS BSD BSRPD	ug/L ug/L ug/L	10.00 10.00	119% 99.5% 17.5%	44-165 44-165 ≤24.5	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	81.1%	70-130	
Trichloroethylene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 112% 94.4% 17.4%	<0.5 69-133 69-133 ≤16.8	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	104%	70-130	
Trichlorofluoromethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 140% 116% 19.0%	<0.5 40-173 40-173 ≤19.5	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	102%	70-130	
1,2,3-Trichloropropane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 131% 121% 7.4%	<0.5 63-162 63-162 ≤19.1	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	96.2%	70-130	
1,1,2-Trichlorotrifluoroethane	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 128% 108% 17.6%	<0.5 58-150 58-150 ≤16.9	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	91.3%	70-130	
1,2,4-Trimethylbenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 125% 102% 20.8%	<0.5 65-126 65-126 ≤17.6	410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	90.8%	70-130	
1,3,5-Trimethylbenzene	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 123% 104% 16.6%	<0.5 64-125 64-125 ≤16.6	
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	91.6%	70-130	
Vinyl Chloride	524.2	09/08/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 133% 109% 20.1%	<0.5 47-124 47-124 ≤18.6	426 410
	524.2	09/08/2006:A	00-CCV	ug/L	10.00	90.0%	70-130	
Xylenes m,p	524.2	09/08/2006:A209	Blank	ug/L		ND	<0.5	

Report continued on next page ..

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Xylenes m,p	524.2	09/08/2006:A209	BS BSD BSRPD	ug/L. ug/L. ug/L.	20.00 20.00	111% 92.2% 18.2%	43-151 43-151 ≤16.1	410
	524.2	09/08/2006:A	00-CCV	ug/L.	20.00	78.0%	70-130	
Benzo(a)pyrene	525.2	09/17/2006:A210	Blank LCS BS BSD BSRPD	ug/L. ug/L. ug/L. ug/L. ug/L.	5.000 5.000 5.000	ND 105% 106% 108% 1.6%	<0.1 70-130 70-130 70-130 ≤30.0	
	525.2	09/21/2006:A	00-CCV	mg/L.	2.000	93.3%	70-130	
bis(2-Ethylhexyl)adipate	525.2	09/17/2006:A210	Blank LCS BS BSD BSRPD	ug/L. ug/L. ug/L. ug/L. ug/L.	5.000 5.000 5.000	ND 92.3% 92.4% 92.1% 0.017	<1 70-130 70-130 70-130 ≤1.00	
	525.2	09/21/2006:A	00-CCV	mg/L.	2.000	90.0%	70-130	
bis(2-Ethylhexyl)phthalate	525.2	09/17/2006:A210	Blank LCS BS BSD BSRPD	ug/L. ug/L. ug/L. ug/L. ug/L.	5.000 5.000 5.000	ND 94.2% 93.6% 92.5% 0.057	<3 70-130 70-130 70-130 ≤3.00	
	525.2	09/21/2006:A	00-CCV	mg/L.	2.000	86.9%	70-130	
Perylene-d12-Surrogate	525.2	09/17/2006:A210	Blank LCS BS BSD	ug/L. ug/L. ug/L. ug/L.	5.000 5.000 5.000 5.000	97.1% 103% 103% 107%	70-130 70-130 70-130 70-130	
	525.2	09/21/2006:A	00-CCV	mg/L.	5.000	102%	70-130	
Aldicarb	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L. ug/L. ug/L. ug/L. ug/L.	20.00 20.00 20.00	ND 84.4% 86.9% 83.2% 4.3%	<3 80-120 65-135 65-135 ≤11.2	
	531.1	09/18/2006:A	00-CCV	ug/L.	10.00	92.2%	80-120	
Aldicarb Sulfone	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L. ug/L. ug/L. ug/L. ug/L.	20.00 20.00 20.00	ND 108% 114% 112% 1.5%	<3 80-120 65-135 65-135 ≤7.28	
	531.1	09/18/2006:A	00-CCV	ug/L.	10.00	110%	80-120	
Aldicarb Sulfoxide	531.1	09/18/2006:A211	Blank LCS	ug/L. ug/L.	20.00	ND 107%	<3 80-120	

Report continued on next page...

October 04, 2006
 Kleinfelder Inc.

Lab ID : STK637600
 Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Aldicarb Sulfoxide	531.1	09/18/2006:A211 (STK637328-01)	MS MSD MSRPD	ug/L ug/L ug/L	20.00 20.00	114% 113% 1.2%	65-135 65-135 ≤11.2	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	107%	80-120	
Carbaryl	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	20.00 20.00 20.00	ND 117% 123% 122% 0.26	<5 80-120 65-135 65-135 ≤5.00	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	117%	80-120	
Carbofuran	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	20.00 20.00 20.00	ND 110% 112% 115% 0.76	<5 80-120 65-135 65-135 ≤5.00	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	107%	80-120	
3-Hydroxycarbofuran	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	20.00 20.00 20.00	ND 114% 118% 118% 0.8%	<3 80-120 65-135 65-135 ≤16.8	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	111%	80-120	
Methomyl	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	20.00 20.00 20.00	ND 98.2% 101% 100% 1.0%	<2 80-120 65-135 65-135 ≤53.1	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	99.2%	80-120	
Oxamyl	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	20.00 20.00 20.00	ND 107% 112% 112% 0.11	<5 80-120 65-135 65-135 ≤5.00	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	108%	80-120	
Glyphosate	547	09/07/2006:A212 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	200.0 200.0 200.0	ND 103% 102% 105% 2.4%	<5 49-164 57-160 57-160 ≤11.2	
	547	09/07/2006:A	00-CCV	ug/L	200.0	103%	80-120	
Endothal	548.1	09/12/2006:A213	Blank	ug/L		ND	<40	

Report continued on next page ..

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Endothall	548.1	09/12/2006:A213 (STK637600-02)	LCS	ug/L	83.33	126%	10-125	310
			MS	ug/L	83.33	73.1%	0-90	
			MSD	ug/L	83.33	79.8%	0-90	
			MSRPD	ug/L		5.6	≤40.0	
	548.1	09/13/2006:A	00-CCV	ug/L	1000	95.5%	70-130	
Diquat	549.2	09/12/2006:A214 (STK637600-03)	Blank	ug/L		ND	<2	435
			LCS	ug/L	20.00	74.9%	0-143	
			MS	ug/L	20.00	35.9%	14-130	
			MSD	ug/L	20.00	8.7%	14-130	435
			MSRPD	ug/L		5.4	≤2.00	435
	549.2	09/13/2006:A	00-CCV	ug/L	1000	99.5%	80-120	
Diuron	632	09/12/2006:A226	Blank	ug/L		ND	<0.1	
			LCS	ug/L	1.000	71.3%	33-102	
			BS	ug/L	1.000	70.3%	33-102	
			BSD	ug/L	1.000	61.2%	33-102	
			BSRPD	ug/L		14.5%	≤20.3	
	632	09/14/2006:A	00-CCV	ug/L	1000	90.3%	90-110	

Explanations

- 310 LCS above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
- 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted
- 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery.
- 426 Blank Spike (BS) not within Acceptance Range (AR). Data was accepted based on the LCS or CCV recovery.
- 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
- 560 Surrogate percent recoveries not within the Acceptance Range (AR) due to suspected matrix interferences.
- 565 Surrogate percent recoveries not within the Acceptance Range (AR). Please see Case Narrative for explanation.

Definitions

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- BS/BSD : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- <¼ : High Sample Background - Spike concentration was less than one fourth of the sample concentration.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Report continued on next page...

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Gross Alpha	900.0	09/11/2006:A207 (SP 609054-01)	Blank LCS MS MSD MSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 45.16 180.6 180.6	ND 93.5% 69.5% 76.7% 9.3%	<1 75-125 60-140 60-140 ≤30	
Alpha-α	900.0	09/13/2006:A	00-CCB 00-CCV	cpm cpm	 12240	0.060 41.1%	0781 ± 055 40.6 ± 5.0	
Gross Beta	900.0	09/11/2006:A207 (SP 609054-01)	Blank LCS MS MSD MSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 110.2 441.0 441.0	ND 110% 77.0% 75.3% 2.3%	<4 75-125 80-130 80-130 ≤30	 435 435
Beta-β	900.0	09/13/2006:A	00-CCB 00-CCV	cpm cpm	 12240	0.32 89.0%	.365 ± .13 89.8 ± 5.0	
Uranium	908.0	09/14/2006:A218	RgBlk LRS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 11.17 11.17 11.17	0.40 70.9% 90.8% 89.4% 1.5%	1 46-100 75-125 75-125 ≤20	
Alpha-α	908.0	09/16/2006:A	00-CCB 00-CCV	cpm cpm	 24350	ND 36.1%	.046 ± .08 37.5 ± 10	

Explanations

435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Definitions

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples
- RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- LRS : Laboratory Recovery Standard
- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- BS/BSD : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- < ¼ : High Sample Background - Spike concentration was less than one fourth of the sample concentration.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

WIRONMENTAL

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CHAIN OF CUSTODY
Laboratory Copy (1 of 3)

Client: Kienfelder Inc. Address: 2825 East Myrtle Street Stockton, CA 95205
Phone: (209)948-1345 x266 Fax: (209)948-0621
Contact Person: Joe Zilles
Project Name: Mariposa Lake
Purchase Order Number:
Quote Number: ST20051021_01
Sampler(s)
Sampling Fee: Pickup Fee:
Compositor Setup Date: / / Time: / /
Lab Number: **STK 637600** 3-2703

Sample Num	Location Description	Date Sampled	Time Sampled	Method of Sampling:	Type of Sample	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O)	EPA 504 1-DBCP,EDB 40ml(VOA)	EPA 524 2 40ml(VOA)-HCl	EPA 525 2 1000ml(AGT)	Coliform - Colilert 120ml(PBa)-Na2S2O3	General Mineral	pH - Analyze in STK 8oz(P), 16oz(P), 8oz(P)-H2SO4	Metals. Total-Al,Sb,As,Ba,Be,Cd,Pb,Hg,Ni,Se,Ag.Tl.V 500ml(P)-HNO3	Wet Chemistry-Color,Cyanide,Odor,Turbidity 16oz(P), 16oz(P)-NaOH	EPA 505 40ml(VOA)	EPA 507 1000ml(AGT)	EPA 515 250ml(AGT)	EPA 531 1 40ml(AGT)-Monochloroacetic Buffer	EPA 547 125ml(AGI)	EPA 548 1 1000ml(AGT)	EPA 549-Diquat 1000ml(AST)	
0	Travel Blank	9/6/06		G	LBW																		
1	MW-5	9/6/06	010	G	GW	NP																	
2	MW-12	9/5/06	1530	G	GW	NP																	
3	MW-12	9/6/06	045	G	GW	NP																	
4				G	GW																		

Remarks: Multiple Chains
STD TRF
Subsequent 34.50 for 637600 637586
Relinquished Date: 9/6/06 Time: 950
Received By: Brian Stinson
Relinquished Date: 9/6/06 Time: 1010
Received By: Carlos
Relinquished Date: 9/6/06 Time: 1700
Received By: [Signature]
Relinquished Date: 9/6/06 Time: 1700
Received By: [Signature]
Relinquished Date: 9/6/06 Time: 1700
Received By: [Signature]

Corporate Offices & Laboratory
P.O. Box 272 / 853 Corporation Street
Santa Paula, CA 93061-0272
TEL: (805) 392-2000
FAX: (805) 525-4172
Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209) 942-0182
FAX: (209) 942-0423
Field Office
Visalia, California
TEL: (559) 734-9473
Mobile: (559) 737-2399
FAX: (559) 734-8435



ENVIRONMENTAL

Special
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CHAIN OF CUSTODY
Laboratory Copy (1 of 3)

32928:09/04/2006

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling Information

Client: Kientfelder Inc.
Address: 2825 East Myrtle Street
Stockton, CA 95205

Phone: (209)948-1345 x266 Fax: (209)948-0621

Contact Person: Joe Zilles

Project Name: Mariposa Lake

Purchase Order Number:

Quote Number: ST20051021_01

Sampler(s)

Sampling Fee: Pickup Fee:

Compositor Setup Date: Time:

Lab Number: STK 637600 3-2703

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling:	Type of Sample	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O)	EPA 632 1000ml(AGT)	Radio Chemistry-Gross Alpha,Gross Beta 32oz(P)	Dioxin - HR, EPA 1613B - 2,3,7,8. TCDD 1000ml(AGT)	Relinquished	Relinquished	Relinquished	Relinquished
0	Travel Blank			G	LBW									
1	MWD-S	9/5/06	1530	G	GW									
2	MWD-12	9/6/06	845	G	NP									
3	MWD-12	9/6/06	845	G	NP									
				G	GW									

Remarks: Multiple Chains
 One Dioxin Sampled 9/5/06 (1530)
 One " " 9/6/06 (845)
 STD TAT

Relinquished By: [Signature] Date: 9/6/06 Time: 950
 Received By: [Signature] Date: 9/6/06 Time: 1110

Relinquished By: [Signature] Date: 9/6/06 Time: 1700
 Received By: [Signature] Date: 9/6/06 Time: 1700

Relinquished By: [Signature] Date: 9/6/06 Time: 1700
 Received By: [Signature] Date: 9/6/06 Time: 1700

Corporate Offices & Laboratory
 P.O. Box 272 / 853 Corporation Street
 Santa Paula, CA 93061-0272
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 FAX: (805) 525-4172

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 2500 Stagecoach Road
 Stockton, CA 95215
 TEL: (209) 942-0182
 FAX: (209) 942-0423

Field Office
 Visalia, California
 TEL: (559) 734-9473
 Mobile: (559) 737-2399
 FAX: (559) 734-8435



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586
Customer : 3002703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Laboratory Report

Introduction: This report package contains total of 53 pages divided into three sections:

- Case Narrative (5 Pages): An overview of the work performed at FGL.
Chemical Results (25 Pages): Results for each sample submitted.
Quality Control (23 Pages): Supporting Quality Control (QC) results.

This report package pertains to the following samples:

Table with 5 columns: Sample Description, Date Sampled, Date Received, FGL Lab Sample ID #, Matrix. Rows include Travel Blank, MW-5, MW-10, MW-11.

Sampling and Receipt Information: All samples were received, prepared and analyzed within the method specified holding times. The holding time for pH is listed as immediate. Logistically this is very difficult to obtain. FGL policy is to analyze all samples requiring pH on the same day of receipt at the laboratory.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

Table with 2 columns: Sample ID, Description. Contains quality control notes for samples 200.7 and 200.8 regarding preparation and analysis criteria.

Table continued on next page

STK637586: Case Narrative Page 1

September 29, 2006

Lab ID : STK637586
 Customer : 3002703

Kleinfelder Inc.

Quality Control:

Inorganic - Metals QC

200.8	09/08/2006:B204 Continued... Selenium, Thallium: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
	09/08/2006:B - IX201 All analysis quality controls are within established criteria, except: The following note applies to Antimony, Arsenic, Barium, Beryllium, Cadmium, Lead, Nickel, Selenium, Silver, Thallium, Vanadium: 355 CCV not within Acceptance Range (AR). Results were reported with client approval.
	09/13/2006:A - IX201 All analysis quality controls are within established criteria.
245.1	09/13/2006:A - HG202 All analysis quality controls are within established criteria.
7470A	09/13/2006:A212 All preparation quality controls are within established criteria.

Inorganic - Wet Chemistry QC

2120C	09/06/2006:A - LMA All analysis quality controls are within established criteria. 09/06/2006:A208 All preparation quality controls are within established criteria.
	09/06/2006:C - CHL All analysis quality controls are within established criteria.
2130B	09/06/2006:A245 All preparation quality controls are within established criteria.
	09/06/2006:A - TR203 All analysis quality controls are within established criteria.
2150B	09/06/2006:A222 All preparation quality controls are within established criteria.
2320B	09/08/2006:B202 All preparation quality controls are within established criteria.
	09/08/2006:A - TI201 All analysis quality controls are within established criteria.
2510B	09/07/2006:A212 All preparation quality controls are within established criteria.
	09/07/2006:A - EC201 All analysis quality controls are within established criteria.
2540C	09/07/2006:A235 All preparation quality controls are within established criteria.
300.0	09/06/2006:B215 All preparation quality controls are within established criteria.
	09/11/2006:B215 All preparation quality controls are within established criteria.
	09/06/2006:A - IC204 All analysis quality controls are within established criteria.

Table continued on next page...

September 29, 2006

Lab ID : STK637586

Customer : 3002703

Kleinfelder Inc.

Quality Control:

Inorganic - Wet Chemistry QC

300.0	09/11/2006:A - IC204 Continued... 09/11/2006:A - IC204 All analysis quality controls are within established criteria.
4500-H B	09/05/2006:S346 All preparation quality controls are within established criteria.
	09/05/2006:S - PH301 All analysis quality controls are within established criteria.
4500CNCE	09/14/2006:A210 All preparation quality controls are within established criteria.
	09/15/2006:A - UV203 All analysis quality controls are within established criteria.

Organic QC

504.1	09/10/2006:A203 All preparation quality controls are within established criteria.
	09/10/2006:A - GC216 All analysis quality controls are within established criteria.
505	09/11/2006:A204 All preparation quality controls are within established criteria.
	09/18/2006:A - GC215 All analysis quality controls are within established criteria.
507	09/10/2006:A205 All preparation quality controls are within established criteria, except: The following note applies to Bromacil, Butachlor, Dimethoate, Simazine: 310 LCS above Acceptance Range (AR). Samples which were non detect for this analyte were accepted. The following note applies to Alachlor, Molinate: 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery. The following note applies to Triphenylphosphate: 560 Surrogate percent recoveries not within the Acceptance Range (AR) due to suspected matrix interferences. The following note applies to Triphenylphosphate: 565 Surrogate percent recoveries not within the Acceptance Range (AR). Please see Case Narrative for explanation.
	09/19/2006:B - GC218 All analysis quality controls are within established criteria, except: The following note applies to Alachlor, Atrazine, Butachlor, Diazinon, Dimethoate, Metolachlor, Metribuzin, Molinate, Prometryn, Propachlor, Simazine, Thiobencarb: 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted. The following note applies to Triphenylphosphate: 565 Surrogate percent recoveries not within the Acceptance Range (AR). Please see Case Narrative for explanation.
515.3	09/21/2006:A - GC216 All analysis quality controls are within established criteria.

Table continued on next page...

Kleinfelder Inc.

Quality Control:

Organic QC

524.2	<p>09/11/2006:A209 All preparation quality controls are within established criteria, except: The following note applies to 1,1,1,2-Tetrachloroethane, 1,1,2-Trichlorotrifluoroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2-Dichlorobenzene, 2,2-Dichloropropane, Bromomethane, Trichlorofluoromethane, Chlorobenzene, Chloroethane, Ethyltrans-1,2-Dichloroethylene, n-Propylbenzene, Xylenes m,p, cis-1,2-Dichloroethylene, Vinyl Chloride, Styrene, Dichloromethane, Isopropylbenzene, Benzene: 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery. The following note applies to 1,1-Dichloroethane, 1,1-Dichloroethylene, 2-Chlorotoluene, 4-Chlorotoluene, Chloroethane, Ethyl tert-Butyl Ether (ETBE), Di-isopropyl ether (DIPE), Dichloromethane, Vinyl Chloride, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, p-Isopropyltoluene: 426 Blank Spike (BS) not within Acceptance Range (AR). Data was accepted based on the LCS or CCV recovery.</p>
	<p>09/11/2006:A - GM205 All analysis quality controls are within established criteria, except: The following note applies to 1,1,1-Trichloroethane, 1,2-Dichloroethane, Carbon Tetrachloride: 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.</p>
525.2	09/17/2006:A210 All preparation quality controls are within established criteria.
	09/21/2006:A - GM201 All analysis quality controls are within established criteria.
531.1	09/18/2006:A211 All preparation quality controls are within established criteria.
	09/18/2006:A - LC204 All analysis quality controls are within established criteria.
547	09/07/2006:A212 All preparation quality controls are within established criteria.
	09/07/2006:A - LC204 All analysis quality controls are within established criteria.
548.1	<p>09/12/2006:A213 All preparation quality controls are within established criteria, except: The following note applies to Endothall: 310 LCS above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.</p>
	<p>09/13/2006:A - GC207 All analysis quality controls are within established criteria, except: The following note applies to Endothall: 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.</p>
549.2	<p>09/12/2006:A214 All preparation quality controls are within established criteria, except: The following note applies to Diquat: 435 Sample matrix may be affecting this analyte. Data was accepted based on the</p>

Table continued on next page...

September 29, 2006

Lab ID : STK637586
Customer : 3002703

Kleinfelder Inc.

Quality Control:

Organic QC

549.2	09/12/2006:A214 Continued... LCS or CCV recovery.
	09/13/2006:A - LC204 All analysis quality controls are within established criteria.
632	09/12/2006:A226 All preparation quality controls are within established criteria.
	09/14/2006:A - LC204 All analysis quality controls are within established criteria.
507	All surrogate quality controls are within established criteria, except: STK63758602 for Triphenylphosphate 560 Surrogate percent recoveries not within the Acceptance Range (AR) due to suspected matrix interferences.

Radio Chemistry QC

900.0	09/09/2006:A207 All preparation quality controls are within established criteria.
	09/11/2006:A - GP217 All analysis quality controls are within established criteria.
	09/11/2006:A - GP218 All analysis quality controls are within established criteria.
	09/11/2006:A - GP219 All analysis quality controls are within established criteria.

Certification: I certify that this data package is in compliance with NELAC Standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following signature.

FGL ENVIRONMENTAL



Kelly A. Dunnahoo, B.S.
Laboratory Director

KAD:kdm



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-00

Customer ID: 3-2703

Kleinfelder Inc.

2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-00:00

Sampled By : Brian

Received : September 5, 2006-16:40 Stockton

Received : September 6, 2006-12:00

Matrix : Lab. Blank Water

Description : Travel Blank

Project : Mariposa Lake

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 504.1 VOA:1							
1,3-Dibromopropane-Surrogate	117	70-130	% Rec		504.1	09/10/06:A203	09/10/2006:A01
DBCP	ND	0.01	ug/L	0.2	504.1	09/10/06:A203	09/10/2006:A01
EDB	ND	0.02	ug/L	0.05	504.1	09/10/06:A203	09/10/2006:A01

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminant Level. ² - Secondary Standard.

Containers: (VOA) VOA Preservatives: (1) Cool 4°C



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-01

Customer ID: 3-2703

Kleinfelder Inc.

2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-09:50

Sampled By : Brian

Received : September 5, 2006-16:40 Stockton

Received : September 6, 2006-12:00

Matrix : Ground Water

Description : MW-5

Project : Mariposa Lake

Sample Results - Inorganic

Constituent	Results	PQL	Units	MCL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral P:1,4 pH	7.7	--	units		4500-H B	09/05/06:S346	4500-H B	09/05/2006:S00 17:56
General Mineral P:1,4 Total Hardness	310	2.5	mg/L		Calculation		Calculation	
Calcium	70	1	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Magnesium	33	1	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Potassium	4	1	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Sodium	59	1	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Total Cations	8.9	--	meq/L		Calculation		Calculation	
Boron	0.15	0.05	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Copper	ND	10	ug/L	1000 ²	200.7	09/07/06:A203	200.7	09/07/2006:A00
Iron	110	50	ug/L	300 ²	200.7	09/07/06:A203	200.7	09/07/2006:A00
Manganese	10	10	ug/L	50 ²	200.7	09/07/06:A203	200.7	09/07/2006:A00
Zinc	ND	20	ug/L	5000 ²	200.7	09/07/06:A203	200.7	09/07/2006:A00
Total Alkalinity (as CaCO ₃)	380	10	mg/L		2320B	09/08/06:B202	2320B	09/08/2006:A00
Hydroxide	ND	10	mg/L		2320B	09/08/06:B202	2320B	09/08/2006:A00
Carbonate	ND	10	mg/L		2320B	09/08/06:B202	2320B	09/08/2006:A00
Bicarbonate	460	10	mg/L		2320B	09/08/06:B202	2320B	09/08/2006:A00
Sulfate	20	2	mg/L	500 ²	300.0	09/06/06:B215	300.0	09/07/2006:A00
Chloride	40	1	mg/L	500 ²	300.0	09/06/06:B215	300.0	09/07/2006:A00
Nitrate	6.5	0.4	mg/L	45	300.0	09/06/06:B215 17:00	300.0	09/07/2006:A00 06:42
Nitrite as N	ND	0.1	mg/L	1	300.0	09/06/06:B215 17:00	300.0	09/07/2006:A00 06:42
Fluoride	ND	0.1	mg/L	2	300.0	09/11/06:B215	300.0	09/12/2006:A00
Total Anions	9.2	--	meq/L		Calculation		Calculation	

Table continued next page...

September 29, 2006

Kleinfelder Inc.

Lab ID : STK637586-01

Customer ID: 3-2703

Description : MW-5

Sample Results - Inorganic

Constituent	Results	PQL	Units	MCL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral P:1,4								
Specific Conductance	891	1	umhos/cm	1600 ²	2510B	09/07/06:A212	2510B	09/07/2006:A00
Total Dissolved Solids	570	40	mg/L	1000 ²	2540C	09/07/06:A235	2540 C,E	09/08/2006:A00
MBAS (foaming agents)	ND	0.1	mg/L	0.5 ²		09/06/06:A218	5540C	09/06/2006:A00
						17:14		17:31
Aggressiveness Index	12.5	1.0	mg/L		Calculation		Calculation	
Langlier Index	0.6	1.0	mg/L		Calculation		Calculation	
Metals, Total P:1,5								
Aluminum	ND	10	ug/L	1000 ²	200.8	09/08/06:B204	200.8	09/13/2006:A00
Antimony	ND	1	ug/L	6	200.8	09/08/06:B204	200.8	09/08/2006:B00
Arsenic	5	2	ug/L	10	200.8	09/08/06:B204	200.8	09/08/2006:B00
Barium	208	0.2	ug/L	1000	200.8	09/08/06:B204	200.8	09/08/2006:B00
Beryllium	ND	0.2	ug/L	4	200.8	09/08/06:B204	200.8	09/08/2006:B00
Cadmium	ND	0.2	ug/L	5	200.8	09/08/06:B204	200.8	09/08/2006:B00
Lead	ND	0.2	ug/L		200.8	09/08/06:B204	200.8	09/08/2006:B00
Mercury	ND	0.02	ug/L	2	7470A	09/13/06:A212	245.1	09/13/2006:A00
Nickel	2	1	ug/L	100	200.8	09/08/06:B204	200.8	09/08/2006:B00
Selenium	ND	2	ug/L	50	200.8	09/08/06:B204	200.8	09/08/2006:B00
Silver	ND	1	ug/L	100 ²	200.8	09/08/06:B204	200.8	09/08/2006:B00
Thallium	ND	0.2	ug/L	2	200.8	09/08/06:B204	200.8	09/08/2006:B00
Vanadium	33	2	ug/L		200.8	09/08/06:B204	200.8	09/08/2006:B00
Wet Chemistry P:1,10								
Color	ND	5	units	15 ²	2120C	09/06/06:A208	2120C	09/06/2006:C00
						16:01		16:40
Cyanide, Total	ND	0.005	mg/L	0.15	4500CNCE	09/14/06:A210	4500CNCE	09/15/2006:A00
Odor	ND	1	TON	3 ²	2150B	09/06/06:A222	2150B	09/06/2006:B00
						16:02		16:13
Turbidity	969	0.2	NTU	5 ²	2130B	09/06/06:A245	2130B	09/06/2006:A00
						16:00		17:10

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminant Level. ² - Secondary Standard.

Containers: (P) Plastic Preservatives: (1) Cool 4°C, (4) H2SO4 pH < 2, (5) HNO3 pH < 2, (10) NaOH



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-01

Customer ID: 3-2703

Kleinfelder Inc.2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-09:50

Sampled By : Brian

Received : September 5, 2006-16:40 Stockton

Received : September 6, 2006-12:00

Matrix : Ground Water

Description : MW-5

Project : Mariposa Lake

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 504.1 VOA:1							
1,3-Dibromopropane-Surrogate	117	70-130	% Rec		504.1	09/10/06:A203	09/10/2006:A02
DBCP	ND	0.01	ug/L	0.2	504.1	09/10/06:A203	09/10/2006:A02
EDB	ND	0.02	ug/L	0.05	504.1	09/10/06:A203	09/10/2006:A02
EPA 505 VOA:1							
Alachlor	ND	0.2	ug/L	2	505	09/11/06:A204	09/18/2006:A00
Aldrin	ND	0.01	ug/L		505	09/11/06:A204	09/18/2006:A00
Chlordane	ND	0.1	ug/L	0.1	505	09/11/06:A204	09/18/2006:A00
Dieldrin	ND	0.01	ug/L		505	09/11/06:A204	09/18/2006:A00
Endrin	ND	0.01	ug/L	2	505	09/11/06:A204	09/18/2006:A00
Heptachlor	ND	0.01	ug/L	0.01	505	09/11/06:A204	09/18/2006:A00
Heptachlor Epoxide	ND	0.01	ug/L	0.01	505	09/11/06:A204	09/18/2006:A00
Hexachlorobenzene	ND	0.01	ug/L	1	505	09/11/06:A204	09/18/2006:A00
Hexachlorocyclopentadiene	ND	0.1	ug/L	50	505	09/11/06:A204	09/18/2006:A00
Lindane	ND	0.05	ug/L	0.2	505	09/11/06:A204	09/18/2006:A00
Methoxychlor	ND	0.1	ug/L	30	505	09/11/06:A204	09/18/2006:A00
Toxaphene	ND	0.5	ug/L	3	505	09/11/06:A204	09/18/2006:A00
PCB 1016	ND	0.5	ug/L		505	09/11/06:A204	09/18/2006:A00
PCB 1221	ND	0.5	ug/L		505	09/11/06:A204	09/18/2006:A00
PCB 1232	ND	0.5	ug/L		505	09/11/06:A204	09/18/2006:A00
PCB 1242	ND	0.5	ug/L		505	09/11/06:A204	09/18/2006:A00
PCB 1248	ND	0.5	ug/L		505	09/11/06:A204	09/18/2006:A00
PCB 1254	ND	0.5	ug/L		505	09/11/06:A204	09/18/2006:A00
PCB 1260	ND	0.5	ug/L		505	09/11/06:A204	09/18/2006:A00

Table continued next page...

September 29, 2006

Lab ID : STK637586-01

Customer ID: 3-2703

Kleinfelder Inc.

Description : MW-5

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 507 AGT:1							
Triphenylphosphate-Surrogate	70.3	70-130	% Rec		507	09/10/06:A205	09/20/2006:B01
Alachlor	ND	1	ug/L	1	507	09/10/06:A205	09/20/2006:B01
Atrazine	ND	0.5	ug/L		507	09/10/06:A205	09/20/2006:B01
Bromacil	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Butachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Diazinon	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Dimethoate	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Metolachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Metribuzin	ND	0.5	ug/L		507	09/10/06:A205	09/20/2006:B01
Molinate	ND	0.5	ug/L	20	507	09/10/06:A205	09/20/2006:B01
Prometryn	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Propachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Simazine	ND	0.5	ug/L	4	507	09/10/06:A205	09/20/2006:B01
Thiobencarb	ND	0.5	ug/L	70 ²	507	09/10/06:A205	09/20/2006:B01
EPA 515.3 AGT:1							
2,4-DCAA-Surrogate	101	70-130	% Rec		515.3	09/18/06:A241	09/21/2006:A00
Bentazon	ND	2	ug/L	18	515.3	09/18/06:A241	09/21/2006:A00
2,4-D	ND	2	ug/L	70	515.3	09/18/06:A241	09/21/2006:A00
Dalapon	ND	10	ug/L	200	515.3	09/18/06:A241	09/21/2006:A00
Dicamba	ND	1	ug/L		515.3	09/18/06:A241	09/21/2006:A00
Dinoseb	ND	2	ug/L	7	515.3	09/18/06:A241	09/21/2006:A00
Pentachlorophenol	ND	0.2	ug/L	1	515.3	09/18/06:A241	09/21/2006:A00
Picloram	ND	1	ug/L	500	515.3	09/18/06:A241	09/21/2006:A00
2,4,5-TP (Silvex)	ND	1	ug/L	50	515.3	09/18/06:A241	09/21/2006:A00
2,4,5-T	ND	1	ug/L		515.3	09/18/06:A241	09/21/2006:A00
EPA 524.2 VOA:1,3							
4-Bromofluorobenzene-Surrogate	111	70-130	% Rec		524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichlorobenzene-d4-Surrogate	89.9	70-130	% Rec		524.2	09/11/06:A209	09/11/2006:A01
Benzene	ND	0.5	ug/L	1	524.2	09/11/06:A209	09/11/2006:A01
Bromobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromochloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromodichloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromoform	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromomethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01

Table continued next page...

September 29, 2006

Kleinfelder Inc.

Lab ID : STK637586-01

Customer ID: 3-2703

Description : MW-5

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 524.2 VOA:1,3							
n-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
sec-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
tert-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Carbon Tetrachloride	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
tert-Butanol	ND	2	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chlorobenzene	ND	0.5	ug/L	70	524.2	09/11/06:A209	09/11/2006:A01
Chloroethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chloroform	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
2-Chlorotoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
4-Chlorotoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dibromochloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dibromomethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichlorobenzene	ND	0.5	ug/L	600	524.2	09/11/06:A209	09/11/2006:A01
1,3-Dichlorobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,4-Dichlorobenzene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Dichlorodifluoromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloroethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichloroethane	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloroethylene	ND	0.5	ug/L	6	524.2	09/11/06:A209	09/11/2006:A01
cis-1,2-Dichloroethylene	ND	0.5	ug/L	6	524.2	09/11/06:A209	09/11/2006:A01
trans-1,2-Dichloroethylene	ND	0.5	ug/L	10	524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichloropropane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,3-Dichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dichloromethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
2,2-Dichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
cis-1,3-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
trans-1,3-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Di-isopropyl ether (DIPE)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Ethyl Benzene	ND	0.5	ug/L	300	524.2	09/11/06:A209	09/11/2006:A01
Ethyl tert-Butyl Ether (ETBE)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Hexachlorobutadiene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Isopropylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
p-Isopropyltoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Methyl tert-Butyl Ether (MTBE)	ND	3	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Naphthalene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
n-Propylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Styrene	ND	0.5	ug/L	100	524.2	09/11/06:A209	09/11/2006:A01

Table continued next page...

September 29, 2006

Lab ID : STK637586-01

Kleinfelder Inc.

Customer ID: 3-2703

Description : MW-5

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 524.2 VOA:1,3							
Tert-amyl-methyl Ether (TAME)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	1	524.2	09/11/06:A209	09/11/2006:A01
Tetrachloroethylene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Toluene	ND	0.5	ug/L	150	524.2	09/11/06:A209	09/11/2006:A01
1,2,3-Trichlorobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,2,4-Trichlorobenzene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,1,1-Trichloroethane	ND	0.5	ug/L	200	524.2	09/11/06:A209	09/11/2006:A01
1,1,2-Trichloroethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Trichloroethylene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Trichlorofluoromethane	ND	0.5	ug/L	150	524.2	09/11/06:A209	09/11/2006:A01
1,2,3-Trichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,2-Trichlorotrifluoroethane	ND	0.5	ug/L	1200	524.2	09/11/06:A209	09/11/2006:A01
1,2,4-Trimethylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,3,5-Trimethylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Vinyl Chloride	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
Xylenes (Total)	ND	0.5	ug/L	1750	524.2	09/11/06:A209	09/11/2006:A01
Total Trihalomethanes	ND	0.5	ug/L	100	524.2	09/11/06:A209	09/11/2006:A01
EPA 525.2 AGT:1							
Perylene-d12-Surrogate	97.8	70-130	% Rec		525.2	09/17/06:A210	09/21/2006:A01
Benzo(a)pyrene	ND	0.1	ug/L	0.2	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)adipate	ND	1	ug/L	400	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)phthalate	ND	3	ug/L	4	525.2	09/17/06:A210	09/21/2006:A01
EPA 547 AGT:1							
Glyphosate	ND	20	ug/L	700	547	09/07/06:A212	09/07/2006:A00
EPA 548.1 AGT:1							
Endothall	ND	40	ug/L	100	548.1	09/12/06:A213	09/14/2006:A00
EPA 549.2 AST:1							
Diquat	ND	2	ug/L	20	549.2	09/12/06:A214	09/13/2006:A00

Table continued next page...

September 29, 2006

Kleinfelder Inc.

Lab ID : STK637586-01

Customer ID: 3-2703

Description : MW-5

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 632 AGT:1 Diuron	ND	0.1	ug/L		632	09/12/06:A226	09/15/2006:A00

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.
MCL = Maximum Contaminant Level. ² - Secondary Standard.

Containers: (VOA) VOA, (AGT) Amber Glass TFE-Cap, (AST) Amber Silanized-TFE Preservatives: (1) Cool 4°C, (3) HCl pH < 2



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-01
Customer ID: 3-2703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-09:50
Sampled By : Brian
Received : September 5, 2006-16:40 Stockton
Received : September 6, 2006-12:00
Matrix : Ground Water

Description : MW-5
Project : Mariposa Lake

Sample Results - Radio

Table with 7 columns: Constituents, Result ± Error, MDA, Units, MCL, Preparation Method Date/ID, Analysis Method Date/ID. Rows include Radio Chemistry P:1, Gross Alpha, and Gross Beta.

MCL = Maximum Contaminat Level. Containers: (P) Plastic Preservatives: (1) Cool 4°C

* Including Radium but excluding Uranium. (Ref. Title 22 sec. 64441.)

CCR Section 64442: Compliance Note: If Gross Alpha (Result + 0.84 x error) exceeds 5 pCi/L but is less than 15 pCi/L run Radium 226
If Gross Alpha (Result + 0.84 x error) exceeds 15 pCi/L run Uranium. Samples that exceed 5 pCi/L are held for 6 months at FGL.

Compliance:

- Gross Alpha - Uranium ≤ 15 pCi/L
Uranium ≤ 20 pCi/L
Radium 226 ≤ 3 pCi/L



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-02
Customer ID: 3-2703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-12:01
Sampled By : Brian
Received : September 5, 2006-16:40 Stockton
Received : September 6, 2006-12:00
Matrix : Ground Water

Description : MW-10
Project : Mariposa Lake

Sample Results - Inorganic

Table with 7 columns: Constituent, Results, PQL, Units, MCL, Sample Preparation (Method, Date/ID), Sample Analysis (Method, Date/ID). Rows include General Mineral pH, Total Hardness, Calcium, Magnesium, Potassium, Sodium, Total Cations, Boron, Copper, Iron, Manganese, Zinc, Total Alkalinity, Hydroxide, Carbonate, Bicarbonate, Sulfate, Chloride, Nitrate, Nitrite as N, Fluoride, and Total Anions.

Table continued next page...

September 29, 2006

Kleinfelder Inc.

Lab ID : STK637586-02

Customer ID: 3-2703

Description : MW-10

Sample Results - Inorganic

Constituent	Results	PQL	Units	MCL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral P:1,4								
Specific Conductance	1240	1	umhos/cm	1600 ²	2510B	09/07/06:A212	2510B	09/07/2006:A00
Total Dissolved Solids	810	40	mg/L	1000 ²	2540C	09/07/06:A235	2540 C,E	09/08/2006:A00
MBAS (foaming agents)	ND	0.1	mg/L	0.5 ²		09/06/06:A218	5540C	09/06/2006:A00
						17:14		17:32
Aggressiveness Index	12.6	1.0	mg/L		Calculation		Calculation	
Langlier Index	0.7	1.0	mg/L		Calculation		Calculation	
Metals, Total P:1,5								
Aluminum	ND	10	ug/L	1000 ²	200.8	09/08/06:B204	200.8	09/13/2006:A00
Antimony	ND	1	ug/L	6	200.8	09/08/06:B204	200.8	09/08/2006:B00
Arsenic	3	2	ug/L	10	200.8	09/08/06:B204	200.8	09/08/2006:B00
Barium	202	0.2	ug/L	1000	200.8	09/08/06:B204	200.8	09/08/2006:B00
Beryllium	ND	0.2	ug/L	4	200.8	09/08/06:B204	200.8	09/08/2006:B00
Cadmium	ND	0.2	ug/L	5	200.8	09/08/06:B204	200.8	09/08/2006:B00
Lead	ND	0.2	ug/L		200.8	09/08/06:B204	200.8	09/08/2006:B00
Mercury	ND	0.02	ug/L	2	7470A	09/13/06:A212	245.1	09/13/2006:A00
Nickel	2	1	ug/L	100	200.8	09/08/06:B204	200.8	09/08/2006:B00
Selenium	ND	2	ug/L	50	200.8	09/08/06:B204	200.8	09/08/2006:B00
Silver	ND	1	ug/L	100 ²	200.8	09/08/06:B204	200.8	09/08/2006:B00
Thallium	ND	0.2	ug/L	2	200.8	09/08/06:B204	200.8	09/08/2006:B00
Vanadium	18	2	ug/L		200.8	09/08/06:B204	200.8	09/08/2006:B00
Wet Chemistry P:1,10								
Color	5	5	units	15 ²	2120C	09/06/06:A208	2120C	09/06/2006:C00
						16:01		16:41
Cyanide, Total	ND	0.005	mg/L	0.15	4500CNCE	09/14/06:A210	4500CNCE	09/15/2006:A00
Odor	ND	1	TON	3 ²	2150B	09/06/06:A222	2150B	09/06/2006:B00
						16:02		16:14
Turbidity	1040	0.2	NTU	5 ²	2130B	09/06/06:A245	2130B	09/06/2006:A00
						16:00		17:12

ND=Non-Detect PQL=Practical Quantitation Limit ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminat Level. ² - Secondary Standard.

Containers: (P) Plastic Preservatives: (1) Cool 4°C, (4) H2SO4 pH < 2, (5) HNO3 pH < 2, (10) NaOH



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-02

Customer ID: 3-2703

Kleinfelder Inc.

2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-12:01

Sampled By : Brian

Received : September 5, 2006-16:40 Stockton

Received : September 6, 2006-12:00

Matrix : Ground Water

Description : MW-10

Project : Mariposa Lake

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 504.1 VOA:1							
1,3-Dibromopropane-Surrogate	114	70-130	% Rec		504.1	09/10/06:A203	09/10/2006:A02
DBCP	ND	0.01	ug/L	0.2	504.1	09/10/06:A203	09/10/2006:A02
EDE	ND	0.02	ug/L	0.05	504.1	09/10/06:A203	09/10/2006:A02
EPA 505 VOA:1							
Alachlor	ND	0.2	ug/L	2	505	09/11/06:A204	09/19/2006:A00
Aldrin	ND	0.01	ug/L		505	09/11/06:A204	09/19/2006:A00
Chlordane	ND	0.1	ug/L	0.1	505	09/11/06:A204	09/19/2006:A00
Dieldrin	ND	0.01	ug/L		505	09/11/06:A204	09/19/2006:A00
Endrin	ND	0.01	ug/L	2	505	09/11/06:A204	09/19/2006:A00
Heptachlor	ND	0.01	ug/L	0.01	505	09/11/06:A204	09/19/2006:A00
Heptachlor Epoxide	ND	0.01	ug/L	0.01	505	09/11/06:A204	09/19/2006:A00
Hexachlorobenzene	ND	0.01	ug/L	1	505	09/11/06:A204	09/19/2006:A00
Hexachlorocyclopentadiene	ND	0.1	ug/L	50	505	09/11/06:A204	09/19/2006:A00
Lindane	ND	0.05	ug/L	0.2	505	09/11/06:A204	09/19/2006:A00
Methoxychlor	ND	0.1	ug/L	30	505	09/11/06:A204	09/19/2006:A00
Toxaphene	ND	0.5	ug/L	3	505	09/11/06:A204	09/19/2006:A00
PCB 1016	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1221	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1232	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1242	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1248	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1254	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1260	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00

Table continued next page...

September 29, 2006

Lab ID : STK637586-02

Customer ID: 3-2703

Kleinfelder Inc.

Description : MW-10

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 507 AGT:1							
Triphenylphosphate-Surrogate	65.0	70-130	% Rec	560*	507	09/10/06:A205	09/20/2006:B01
Alachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Atrazine	ND	0.5	ug/L	1	507	09/10/06:A205	09/20/2006:B01
Bromacil	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Butachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Diazinon	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Dimethoate	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Metolachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Metribuzin	ND	0.5	ug/L		507	09/10/06:A205	09/20/2006:B01
Molinate	ND	0.5	ug/L	20	507	09/10/06:A205	09/20/2006:B01
Prometryn	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Propachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Simazine	ND	0.5	ug/L	4	507	09/10/06:A205	09/20/2006:B01
Thiobencarb	ND	0.5	ug/L	70 ²	507	09/10/06:A205	09/20/2006:B01
EPA 515.3 AGT:1							
2,4-DCAA-Surrogate	103	70-130	% Rec		515.3	09/18/06:A241	09/21/2006:A00
Bentazon	ND	2	ug/L	18	515.3	09/18/06:A241	09/21/2006:A00
2,4-D	ND	2	ug/L	70	515.3	09/18/06:A241	09/21/2006:A00
Dalapon	ND	10	ug/L	200	515.3	09/18/06:A241	09/21/2006:A00
Dicamba	ND	1	ug/L		515.3	09/18/06:A241	09/21/2006:A00
Dinoseb	ND	2	ug/L	7	515.3	09/18/06:A241	09/21/2006:A00
Pentachlorophenol	ND	0.2	ug/L	1	515.3	09/18/06:A241	09/21/2006:A00
Picloram	ND	1	ug/L	500	515.3	09/18/06:A241	09/21/2006:A00
2,4,5-TP (Silvex)	ND	1	ug/L	50	515.3	09/18/06:A241	09/21/2006:A00
2,4,5-T	ND	1	ug/L		515.3	09/18/06:A241	09/21/2006:A00
EPA 524.2 VOA:1,3							
4-Bromofluorobenzene-Surrogate	111	70-130	% Rec		524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichlorobenzene-d4-Surrogate	102	70-130	% Rec		524.2	09/11/06:A209	09/11/2006:A01
Benzene	ND	0.5	ug/L	1	524.2	09/11/06:A209	09/11/2006:A01
Bromobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromochloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromodichloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromoform	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromomethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01

Table continued next page...

September 29, 2006

Lab ID : STK637586-02

Kleinfelder Inc.

Customer ID: 3-2703

Description : MW-10

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 524.2 VOA:1,3							
n-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
sec-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
tert-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Carbon Tetrachloride	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
tert-Butanol	ND	2	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chlorobenzene	ND	0.5	ug/L	70	524.2	09/11/06:A209	09/11/2006:A01
Chloroethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chloroform	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
2-Chlorotoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
4-Chlorotoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dibromochloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dibromomethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichlorobenzene	ND	0.5	ug/L	600	524.2	09/11/06:A209	09/11/2006:A01
1,3-Dichlorobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,4-Dichlorobenzene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Dichlorodifluoromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloroethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichloroethane	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloroethylene	ND	0.5	ug/L	6	524.2	09/11/06:A209	09/11/2006:A01
cis-1,2-Dichloroethylene	ND	0.5	ug/L	6	524.2	09/11/06:A209	09/11/2006:A01
trans-1,2-Dichloroethylene	ND	0.5	ug/L	10	524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichloropropane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,3-Dichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dichloromethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
2,2-Dichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
cis-1,3-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
trans-1,3-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Di-isopropyl ether (DIPE)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Ethyl Benzene	ND	0.5	ug/L	300	524.2	09/11/06:A209	09/11/2006:A01
Ethyl tert-Butyl Ether (ETBE)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Hexachlorobutadiene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Isopropylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
p-Isopropyltoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Methyl tert-Butyl Ether (MTBE)	ND	3	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Naphthalene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
n-Propylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Styrene	ND	0.5	ug/L	100	524.2	09/11/06:A209	09/11/2006:A01

Table continued next page...

September 29, 2006

Lab ID : STK637586-02

Kleinfelder Inc.

Customer ID: 3-2703

Description : MW-10

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 524.2 VOA:1,3							
Tert-amyl-methyl Ether (TAME)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	1	524.2	09/11/06:A209	09/11/2006:A01
Tetrachloroethylene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Toluene	ND	0.5	ug/L	150	524.2	09/11/06:A209	09/11/2006:A01
1,2,3-Trichlorobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,2,4-Trichlorobenzene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,1,1-Trichloroethane	ND	0.5	ug/L	200	524.2	09/11/06:A209	09/11/2006:A01
1,1,2-Trichloroethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Trichloroethylene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Trichlorofluoromethane	ND	0.5	ug/L	150	524.2	09/11/06:A209	09/11/2006:A01
1,2,3-Trichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,2-Trichlorotrifluoroethane	ND	0.5	ug/L	1200	524.2	09/11/06:A209	09/11/2006:A01
1,2,4-Trimethylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,3,5-Trimethylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Vinyl Chloride	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
Xylenes (Total)	ND	0.5	ug/L	1750	524.2	09/11/06:A209	09/11/2006:A01
Total Trihalomethanes	ND	0.5	ug/L	100	524.2	09/11/06:A209	09/11/2006:A01
EPA 525.2 AGT:1							
Perylene-d12-Surrogate	97.5	70-130	% Rec		525.2	09/17/06:A210	09/21/2006:A01
Benzo(a)pyrene	ND	0.1	ug/L	0.2	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)adipate	ND	1	ug/L	400	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)phthalate	ND	3	ug/L	4	525.2	09/17/06:A210	09/21/2006:A01
EPA 547 AGT:1							
Glyphosate	ND	20	ug/L	700	547	09/07/06:A212	09/07/2006:A00
EPA 548.1 AGT:1							
Endothall	ND	40	ug/L	100	548.1	09/12/06:A213	09/14/2006:A00
EPA 549.2 AST:1							
Diquat	ND	2	ug/L	20	549.2	09/12/06:A214	09/13/2006:A00

Table continued next page...

September 29, 2006

Kleinfelder Inc.

Lab ID : STK637586-02

Customer ID: 3-2703

Description : MW-10

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 632 AGT:1 Diuron	ND	0.1	ug/L		632	09/12/06:A226	09/15/2006:A00
EPA 531.1 AGT:1,8 Aldicarb	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Aldicarb Sulfone	ND	3	ug/L	4	531.1	09/18/06:A211	09/19/2006:A00
Aldicarb Sulfoxide	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Carbaryl	ND	5	ug/L		531.1	09/18/06:A211	09/19/2006:A00
Carbofuran	ND	5	ug/L	18	531.1	09/18/06:A211	09/19/2006:A00
3-Hydroxycarbofuran	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Methomyl	ND	2	ug/L		531.1	09/18/06:A211	09/19/2006:A00
Oxamyl	ND	5	ug/L	50	531.1	09/18/06:A211	09/19/2006:A00

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminant Level. ² - Secondary Standard.

Containers: (VOA) VOA, (AGT) Amber Glass TFE-Cap, (AST) Amber Silanized-TFE Preservatives: (1) Cool 4°C, (3) HCl pH < 2, (8) Monochloroacetic Buffer

560 Surrogate percent recoveries not within the Acceptance Range (AR) due to suspected matrix interferences.



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-02
Customer ID: 3-2703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-12:01
Sampled By : Brian
Received : September 5, 2006-16:40 Stockton
Received : September 6, 2006-12:00
Matrix : Ground Water

Description : MW-10
Project : Mariposa Lake

Sample Results - Radio

Table with 7 columns: Constituents, Result ± Error, MDA, Units, MCL, Preparation Method Date/ID, Analysis Method Date/ID. Rows include Radio Chemistry P:1, Gross Alpha, and Gross Beta.

MCL = Maximum Contaminat Level. Containers: (P) Plastic Preservatives: (1) Cool 4°C

* Including Radium but excluding Uranium. (Ref. Title 22 sec. 64441.)

CCR Section 64442: Compliance Note: If Gross Alpha (Result + 0.84 x error) exceeds 5 pCi/L. but is less than 15 pCi/L run Radium 226.
If Gross Alpha (Result + 0.84 x error) exceeds 15 pCi/L run Uranium. Samples that exceed 5 pCi/L are held for 6 months at FGL.

Compliance:

- Gross Alpha - Uranium ≤ 15 pCi/L.
Uranium ≤ 20 pCi/L.
Radium 226 ≤ 3 pCi/L.



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-03

Customer ID: 3-2703

Kleinfelder Inc.

2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-13:00

Sampled By : Brian

Received : September 5, 2006-16:40 Stockton

Received : September 6, 2006-12:00

Matrix : Ground Water

Description : MW-11

Project : Mariposa Lake

Sample Results - Inorganic

Constituent	Results	PQL	Units	MCL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral P:1,4 pH	7.8	--	units		4500-H B	09/05/06:S346	4500-H B	09/05/2006:S00 17:58
General Mineral P:1,4 Total Hardness	350	2.5	mg/L		Calculation		Calculation	
Calcium	76	1	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Magnesium	39	1	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Potassium	4	1	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Sodium	38	1	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Total Cations	8.8	--	meq/L		Calculation		Calculation	
Boron	0.05	0.05	mg/L		200.7	09/07/06:A203	200.7	09/07/2006:A00
Copper	ND	10	ug/L	1000 ²	200.7	09/07/06:A203	200.7	09/07/2006:A00
Iron	ND	50	ug/L	300 ²	200.7	09/07/06:A203	200.7	09/07/2006:A00
Manganese	ND	10	ug/L	50 ²	200.7	09/07/06:A203	200.7	09/07/2006:A00
Zinc	ND	20	ug/L	5000 ²	200.7	09/07/06:A203	200.7	09/07/2006:A00
Total Alkalinity (as CaCO3)	280	10	mg/L		2320B	09/08/06:B202	2320B	09/08/2006:A00
Hydroxide	ND	10	mg/L		2320B	09/08/06:B202	2320B	09/08/2006:A00
Carbonate	ND	10	mg/L		2320B	09/08/06:B202	2320B	09/08/2006:A00
Bicarbonate	330	10	mg/L		2320B	09/08/06:B202	2320B	09/08/2006:A00
Sulfate	31	2	mg/L	500 ²	300.0	09/06/06:B215	300.0	09/07/2006:A00
Chloride	48	1	mg/L	500 ²	300.0	09/06/06:B215	300.0	09/07/2006:A00
Nitrate	90.5	0.8 ⁺	mg/L	45	300.0	09/06/06:B215 17:00	300.0	09/07/2006:A00 11:06
Nitrite as N	ND	0.1	mg/L	1	300.0	09/06/06:B215 17:00	300.0	09/07/2006:A00 10:50
Fluoride	ND	0.1	mg/L	2	300.0	09/11/06:B215	300.0	09/12/2006:A00
Total Anions	8.9	--	meq/L		Calculation		Calculation	

Table continued next page...

September 29, 2006

Kleinfelder Inc.

Lab ID : STK637586-03

Customer ID: 3-2703

Description : MW-11

Sample Results - Inorganic

Constituent	Results	PQL	Units	MCL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
General Mineral P:1,4								
Specific Conductance	940	1	umhos/cm	1600 ²	2510B	09/07/06:A212	2510B	09/07/2006:A00
Total Dissolved Solids	610	40	mg/L	1000 ²	2540C	09/07/06:A235	2540 C,E	09/08/2006:A00
MBAS (foaming agents)	ND	0.1	mg/L	0.5 ²		09/06/06:A218 17:14	5540C	09/06/2006:A00 17:33
Aggressiveness Index	12.5	1.0	mg/L		Calculation		Calculation	
Langlier Index	0.6	1.0	mg/L		Calculation		Calculation	
Metals, Total P:1,5								
Aluminum	ND	10	ug/L	1000 ²	200.8	09/08/06:B204	200.8	09/13/2006:A00
Antimony	ND	1	ug/L	6	200.8	09/08/06:B204	200.8	09/08/2006:B00
Arsenic	3	2	ug/L	10	200.8	09/08/06:B204	200.8	09/08/2006:B00
Barium	232	0.2	ug/L	1000	200.8	09/08/06:B204	200.8	09/08/2006:B00
Beryllium	ND	0.2	ug/L	4	200.8	09/08/06:B204	200.8	09/08/2006:B00
Cadmium	ND	0.2	ug/L	5	200.8	09/08/06:B204	200.8	09/08/2006:B00
Lead	ND	0.2	ug/L		200.8	09/08/06:B204	200.8	09/08/2006:B00
Mercury	ND	0.02	ug/L	2	7470A	09/13/06:A212	245.1	09/13/2006:A00
Nickel	ND	1	ug/L	100	200.8	09/08/06:B204	200.8	09/08/2006:B00
Selenium	ND	2	ug/L	50	200.8	09/08/06:B204	200.8	09/08/2006:B00
Silver	ND	1	ug/L	100 ²	200.8	09/08/06:B204	200.8	09/08/2006:B00
Thallium	ND	0.2	ug/L	2	200.8	09/08/06:B204	200.8	09/08/2006:B00
Vanadium	23	2	ug/L		200.8	09/08/06:B204	200.8	09/08/2006:B00
Wet Chemistry P:1,10								
Color	5	5	units	15 ²	2120C	09/06/06:A208 16:01	2120C	09/06/2006:C00 16:42
Cyanide, Total	ND	0.005	mg/L	0.15	4500CNCE	09/14/06:A210	4500CNCE	09/15/2006:A00
Odor	ND	1	TON	3 ²	2150B	09/06/06:A222 16:02	2150B	09/06/2006:B00 16:15
Turbidity	452	0.2	NTU	5 ²	2130B	09/06/06:A245 16:00	2130B	09/06/2006:A00 17:14

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminat Level. ² - Secondary Standard.

Containers: (P) Plastic Preservatives: (1) Cool 4°C, (4) H2SO4 pH < 2, (5) HNO3 pH < 2, (10) NaOH



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-03
Customer ID: 3-2703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-13:00
Sampled By : Brian
Received : September 5, 2006-16:40 Stockton
Received : September 6, 2006-12:00
Matrix : Ground Water

Description : MW-11
Project : Mariposa Lake

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 504.1 VOA:1							
1,3-Dibromopropane-Surrogate	114	70-130	% Rec		504.1	09/10/06:A203	09/10/2006:A02
DBCP	ND	0.01	ug/L	0.2	504.1	09/10/06:A203	09/10/2006:A02
EDB	ND	0.02	ug/L	0.05	504.1	09/10/06:A203	09/10/2006:A02
EPA 505 VOA:1							
Alachlor	ND	0.2	ug/L	2	505	09/11/06:A204	09/19/2006:A00
Aldrin	ND	0.01	ug/L		505	09/11/06:A204	09/19/2006:A00
Chlordane	ND	0.1	ug/L	0.1	505	09/11/06:A204	09/19/2006:A00
Dieldrin	ND	0.01	ug/L		505	09/11/06:A204	09/19/2006:A00
Endrin	ND	0.01	ug/L	2	505	09/11/06:A204	09/19/2006:A00
Heptachlor	ND	0.01	ug/L	0.01	505	09/11/06:A204	09/19/2006:A00
Heptachlor Epoxide	ND	0.01	ug/L	0.01	505	09/11/06:A204	09/19/2006:A00
Hexachlorobenzene	ND	0.01	ug/L	1	505	09/11/06:A204	09/19/2006:A00
Hexachlorocyclopentadiene	ND	0.1	ug/L	50	505	09/11/06:A204	09/19/2006:A00
Lindane	ND	0.05	ug/L	0.2	505	09/11/06:A204	09/19/2006:A00
Methoxychlor	ND	0.1	ug/L	30	505	09/11/06:A204	09/19/2006:A00
Toxaphene	ND	0.5	ug/L	3	505	09/11/06:A204	09/19/2006:A00
PCB 1016	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1221	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1232	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1242	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1248	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1254	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00
PCB 1260	ND	0.5	ug/L		505	09/11/06:A204	09/19/2006:A00

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September 29, 2006

Lab ID : STK637586-03

Customer ID: 3-2703

Kleinfelder Inc.

Description : MW-11

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 507 AGT:1							
Triphenylphosphate-Surrogate	73.5	70-130	% Rec		507	09/10/06:A205	09/20/2006:B01
Alachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Atrazine	ND	0.5	ug/L	1	507	09/10/06:A205	09/20/2006:B01
Bromacil	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Butachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Diazinon	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Dimethoate	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Metolachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Metribuzin	ND	0.5	ug/L		507	09/10/06:A205	09/20/2006:B01
Molinate	ND	0.5	ug/L	20	507	09/10/06:A205	09/20/2006:B01
Prometryn	ND	2	ug/L		507	09/10/06:A205	09/20/2006:B01
Propachlor	ND	1	ug/L		507	09/10/06:A205	09/20/2006:B01
Simazine	ND	0.5	ug/L	4	507	09/10/06:A205	09/20/2006:B01
Thiobencarb	ND	0.5	ug/L	70 ²	507	09/10/06:A205	09/20/2006:B01
EPA 515.3 AGT:1							
2,4-DCAA-Surrogate	101	70-130	% Rec		515.3	09/18/06:A241	09/22/2006:A00
Bentazon	ND	2	ug/L	18	515.3	09/18/06:A241	09/22/2006:A00
2,4-D	ND	2	ug/L	70	515.3	09/18/06:A241	09/22/2006:A00
Dalapon	ND	10	ug/L	200	515.3	09/18/06:A241	09/22/2006:A00
Dicamba	ND	1	ug/L		515.3	09/18/06:A241	09/22/2006:A00
Dinoseb	ND	2	ug/L	7	515.3	09/18/06:A241	09/22/2006:A00
Pentachlorophenol	ND	0.2	ug/L	1	515.3	09/18/06:A241	09/22/2006:A00
Picloram	ND	1	ug/L	500	515.3	09/18/06:A241	09/22/2006:A00
2,4,5-TP (Silvex)	ND	1	ug/L	50	515.3	09/18/06:A241	09/22/2006:A00
2,4,5-T	ND	1	ug/L		515.3	09/18/06:A241	09/22/2006:A00
EPA 524.2 VOA:1,3							
4-Bromofluorobenzene-Surrogate	108	70-130	% Rec		524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichlorobenzene-d4-Surrogate	93.3	70-130	% Rec		524.2	09/11/06:A209	09/11/2006:A01
Benzene	ND	0.5	ug/L	1	524.2	09/11/06:A209	09/11/2006:A01
Bromobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromochloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromodichloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromoform	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Bromomethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01

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September 29, 2006

Kleinfelder Inc.

Lab ID : STK637586-03

Customer ID: 3-2703

Description : MW-11

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 524.2 VOA:1,3							
n-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
sec-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
tert-Butylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Carbon Tetrachloride	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
tert-Butanol	ND	2	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chlorobenzene	ND	0.5	ug/L	70	524.2	09/11/06:A209	09/11/2006:A01
Chloroethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chloroform	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Chloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
2-Chlorotoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
4-Chlorotoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dibromochloromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dibromomethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichlorobenzene	ND	0.5	ug/L	600	524.2	09/11/06:A209	09/11/2006:A01
1,3-Dichlorobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,4-Dichlorobenzene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Dichlorodifluoromethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloroethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichloroethane	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloroethylene	ND	0.5	ug/L	6	524.2	09/11/06:A209	09/11/2006:A01
cis-1,2-Dichloroethylene	ND	0.5	ug/L	6	524.2	09/11/06:A209	09/11/2006:A01
trans-1,2-Dichloroethylene	ND	0.5	ug/L	10	524.2	09/11/06:A209	09/11/2006:A01
1,2-Dichloropropane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,3-Dichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Dichloromethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
2,2-Dichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
cis-1,3-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
trans-1,3-Dichloropropene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Di-isopropyl ether (DIPE)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Ethyl Benzene	ND	0.5	ug/L	300	524.2	09/11/06:A209	09/11/2006:A01
Ethyl tert-Butyl Ether (ETBE)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Hexachlorobutadiene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Isopropylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
p-Isopropyltoluene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Methyl tert-Butyl Ether (MTBE)	ND	3	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Naphthalene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
n-Propylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Styrene	ND	0.5	ug/L	100	524.2	09/11/06:A209	09/11/2006:A01

Table continued next page...

September 29, 2006

Lab ID : STK637586-03

Kleinfelder Inc.

Customer ID: 3-2703

Description : MW-11

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 524.2 VOA:1,3							
Tert-amyl-methyl Ether (TAME)	ND	3	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	1	524.2	09/11/06:A209	09/11/2006:A01
Tetrachloroethylene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Toluene	ND	0.5	ug/L	150	524.2	09/11/06:A209	09/11/2006:A01
1,2,3-Trichlorobenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,2,4-Trichlorobenzene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
1,1,1-Trichloroethane	ND	0.5	ug/L	200	524.2	09/11/06:A209	09/11/2006:A01
1,1,2-Trichloroethane	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Trichloroethylene	ND	0.5	ug/L	5	524.2	09/11/06:A209	09/11/2006:A01
Trichlorofluoromethane	ND	0.5	ug/L	150	524.2	09/11/06:A209	09/11/2006:A01
1,2,3-Trichloropropane	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,1,2-Trichlorotrifluoroethane	ND	0.5	ug/L	1200	524.2	09/11/06:A209	09/11/2006:A01
1,2,4-Trimethylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
1,3,5-Trimethylbenzene	ND	0.5	ug/L		524.2	09/11/06:A209	09/11/2006:A01
Vinyl Chloride	ND	0.5	ug/L	0.5	524.2	09/11/06:A209	09/11/2006:A01
Xylenes (Total)	ND	0.5	ug/L	1750	524.2	09/11/06:A209	09/11/2006:A01
Total Trihalomethanes	ND	0.5	ug/L	100	524.2	09/11/06:A209	09/11/2006:A01
EPA 525.2 AGT:1							
Perylene-d12-Surrogate	101	70-130	% Rec		525.2	09/17/06:A210	09/21/2006:A01
Benzo(a)pyrene	ND	0.1	ug/L	0.2	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)adipate	ND	1	ug/L	400	525.2	09/17/06:A210	09/21/2006:A01
bis(2-Ethylhexyl)phthalate	ND	3	ug/L	4	525.2	09/17/06:A210	09/21/2006:A01
EPA 547 AGT:1							
Glyphosate	ND	20	ug/L	700	547	09/07/06:A212	09/07/2006:A00
EPA 548.1 AGT:1							
Endothall	ND	40	ug/L	100	548.1	09/12/06:A213	09/14/2006:A00
EPA 549.2 AST:1							
Diquat	ND	2	ug/L	20	549.2	09/12/06:A214	09/13/2006:A00

Table continued next page...

September 29, 2006

Lab ID : STK637586-03

Kleinfelder Inc.

Customer ID: 3-2703

Description : MW-11

Sample Results - Organic

Constituents	Results	PQL	Units	MCL	Preparation		Analysis Date/ID
					Method	Date/ID	
EPA 632 AGT:1 Diuron	ND	0.1	ug/L		632	09/12/06:A226	09/15/2006:A00
EPA 531.1 AGT:1.8 Aldicarb	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Aldicarb Sulfone	ND	3	ug/L	4	531.1	09/18/06:A211	09/19/2006:A00
Aldicarb Sulfoxide	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Carbaryl	ND	5	ug/L		531.1	09/18/06:A211	09/19/2006:A00
Carbofuran	ND	5	ug/L	18	531.1	09/18/06:A211	09/19/2006:A00
3-Hydroxycarbofuran	ND	3	ug/L	3	531.1	09/18/06:A211	09/19/2006:A00
Methomyl	ND	2	ug/L		531.1	09/18/06:A211	09/19/2006:A00
Oxamyl	ND	5	ug/L	50	531.1	09/18/06:A211	09/19/2006:A00

ND=Non-Detect PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

MCL = Maximum Contaminant Level ² - Secondary Standard.

Containers: (VOA) VOA, (AGT) Amber Glass TFE-Cap, (AST) Amber Silanized-TFE Preservatives: (1) Cool 4°C, (3) HCl pH < 2, (8) Monochloroacetic Buffer



ANALYTICAL CHEMISTS

September 29, 2006

Lab ID : STK637586-03
Customer ID: 3-2703

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Sampled On : September 5, 2006-13:00
Sampled By : Brian
Received : September 5, 2006-16:40 Stockton
Received : September 6, 2006-12:00
Matrix : Ground Water

Description : MW-11
Project : Mariposa Lake

Sample Results - Radio

Table with 7 columns: Constituents, Result ± Error, MDA, Units, MCL, Preparation Method Date/ID, Analysis Method Date/ID. Rows include Radio Chemistry P:1, Gross Alpha, and Gross Beta.

MCL = Maximum Contaminat Level. Containers: (P) Plastic Preservatives: (1) Cool 4°C

* Including Radium but excluding Uranium. (Ref. Title 22 sec. 64441.)

CCR Section 64442: Compliance Note: If Gross Alpha (Result + 0.84 x error) exceeds 5 pCi/L. but is less than 15 pCi/L. run Radium 226
If Gross Alpha (Result + 0.84 x error) exceeds 15 pCi/L. run Uranium. Samples that exceed 5 pCi/L are held for 6 months at FGL.

Compliance:

- Gross Alpha - Uranium ≤ 15 pCi/L
Uranium ≤ 20 pCi/L
Radium 226 ≤ 3 pCi/L



ENVIRONMENTAL

Analytical Chemists
September 19, 2006

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

STK0637586:2-4 COLIFORM BACTERIA ANALYSIS
Customer ID : 3-2703

System Number :
Project Name : Mariposa Lake

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	STK0637586-002	MW-10	Source-Other	Brian		09/05/2006 12:01	09/05/2006 16:52 JK	2006-09-08 JK
2	STK0637586-003	MW-11	Source-Other	Brian		09/05/2006 13:00	09/05/2006 16:54 JK	2006-09-09 JK
3	STK0637586-004	MW-5	Source-Other	Brian		09/05/2006 15:00	09/05/2006 16:50 JK	2006-09-08 JK

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Total	Fecal	Person	Date	Time	Foot Note
1	MW-10	---	---	SM 9221B	MPN/100ml	>23.0 PRESENT	<1.1 ABSENT	N/R			
2	MW-11	---	---	SM 9221B	MPN/100ml	6.9 PRESENT	<1.1 ABSENT	N/R			
3	MW-5	---	---	SM 9221B	MPN/100ml	>23.0 PRESENT	<1.1 ABSENT	N/R			

N/R Not Required.

MPN Most Probable Number

A/P Absence/Presence

September 19, 2006

STK0637586:2-4 COLIFORM BACTERIA ANALYSIS
Customer ID : 3-2703

Kleinfelder Inc.

The samples listed below had failures for Total and/or Fecal Coliform as listed:

MW-10 Total Coliform - Failure.

MW-11 Total Coliform - Failure.

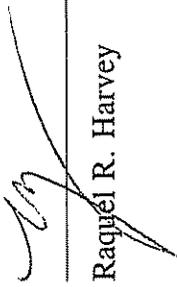
MW-5 Total Coliform - Failure.

Treatment: Guidance on well cleanup will be faxed upon requested. Alternatively, we suggest that you contact a qualified well service company

Analyses were performed using Standard Methods 20th edition. If you have any questions regarding your results, please call.

RRH:SMH

FGL ENVIRONMENTAL



Raquel R. Harvey



ANALYTICAL CHEMISTS

September 29, 2006

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

Subject: Dioxin Analysis - FGL Lab. No. STK 637586

Enclosed are the results of dioxin analysis for your sample received September 6, 2006.

Please note that the analyses were performed by Severn Trent Laboratories, Inc..

Thank you for using FGL Environmental.

Sincerely,
FGL Environmental

Kelly A. Dunnahoo
Laboratory Director

KAD:kdm

Enclosure



STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

September 20, 2006

STL SACRAMENTO PROJECT NUMBER: G61070284
PO/CONTRACT:

Vickie Taylor
FGL Environmental
853 Corporation Street
P.O. Box 272
Santa Paula, CA 93060-0272

Dear Ms. Taylor,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on September 7, 2006. These samples are associated with your 637586-(3-2703) project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

Karen Dahl
Project Manager

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6I070284

General Comments

Samples were received at 0 degrees C., but did not appear to be frozen.

Sample 3 was labeled with a sampling time of 14:00. The sampling time listed on the COC was used in the report.

There were no other anomalies associated with this project.

Sample Summary

G6I070284

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JDWQ0	1	MW-5	9/5/2006 03:00 PM	9/7/2006 09:05 AM
JDWQ6	2	MW-10	9/5/2006 12:01 PM	9/7/2006 09:05 AM
JDWQ9	3	MW-11	9/5/2006 01:00 PM	9/7/2006 09:05 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California	01119CA	Texas	TX 270-2004A
Colorado	NA	Utah*	QUANI
Connecticut	PH0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C-334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NHESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		

*NELAP accredited. A more detailed parameter list is available upon request Update 1/27/05

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.



ENVIRONMENTAL

Special Subcontract to
STL Sacramento

CHAIN OF CUSTODY
 Laboratory Copy (1 of 3)

52928:09/04/2006

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

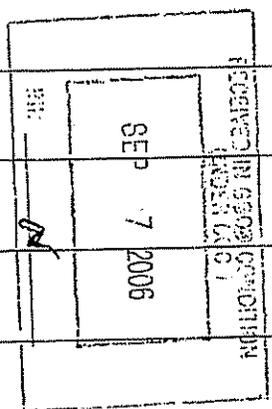
Client: Fruit Growers Laboratory, Inc.
 Address: FGL Environmental
 853 Corporation Street
 P.O. Box 272
 Santa Paula, CA 93061-0272
 Phone: (805)392-2000 Fax: (805)525-4172

Contact Person:
 Project Name: **637586 - (3-2703)**
 Purchase Order Number:
 Quote Number: ST20051021.01

Sampler(s): **Parlan**
 Sampling Fee: _____ Pickup Fee: _____

Lab Number:	Location Description	Date Sampled	Time Sampled
1	MU-5	9/5/06	1500
2	MU-10	9/5/06	1201
3	MU-11	9/5/06	1300
4			

Method of Sampling:	Type of Sample	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O)	Dioxin - HR, EPA 1613B - 2,3,7,8, TCDD 1000ml(AGT)	Received By:	Date:	Time:	Relinquished	Date:	Time:	Received By:	Date:	Time:	Relinquished	Date:	Time:
Composite(C) Grab(G)	**SEE REVERSE SIDE**				Dr	9/6/06	1700	Relinquished			Received By:			Relinquished		
G	GW			2	Calvey	9/6/06	1700				Dr	9/6/06	1700			
G	GW			2												
G	GW			2												
G	GW			2												



Remarks:
**Muhleberg 1100 or 9-7-06*



STL

LOT RECEIPT CHECKLIST STL Sacramento

CLIENT FG L PM CD LOG # 40924
 LOT# (QUANTIMS ID) G6J070284 QUOTE# 30647 LOCATION WISA

DATE RECEIVED 9-7-06 TIME RECEIVED 905 Initials CA Date 9-7-06

- DELIVERED BY
- FEDEX
 - CA OVERNIGHT
 - CLIENT
 - AIRBORNE
 - GOLDENSTATE
 - DHL
 - UPS
 - BAX GLOBAL
 - GO-GETTERS
 - STL COURIER
 - COURIERS ON DEMAND
 - OTHER

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) _____

SHIPPING CONTAINER(S) STL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 1 3 OTHER _____

COC #(S) _____

TEMPERATURE BLANK Observed: NA Corrected: _____

SAMPLE TEMPERATURE

Observed: 0 0 0 Average: 0 Corrected Average: 0

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY _____

LABELS CHECKED BY _____

PEER REVIEW _____ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM N/A

VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

Clouseau TEMPERATURE EXCEEDED (2 °C - 6 °C)*1 N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED

PM NOTIFIED

Notes: MW-11 @ 1300 labeled @ 1400

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.



STL

Bottle Lot Inventory

Lot ID: G6F070284

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB	2	7	7																	
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

FGL Environmental

Client Sample ID: MW-5

Trace Level Organic Compounds

Lot-Sample #...: G6I070284-001 Work Order #...: JDWQ01AA Matrix.....: WATER
Date Sampled...: 09/05/06 Date Received...: 09/07/06
Prep Date.....: 09/11/06 Analysis Date...: 09/13/06
Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra
	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
<u>INTERNAL STANDARDS</u>				
13C-2,3,7,8-TCDD	65	(25 - 141)		

FGL Environmental

Client Sample ID: MW-10

Trace Level Organic Compounds

Lot-Sample #...: G6I070284-002 Work Order #...: JDWQ61AA Matrix.....: WATER
Date Sampled...: 09/05/06 Date Received...: 09/07/06
Prep Date.....: 09/11/06 Analysis Date...: 09/13/06
Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	82	{25 - 141}

FGL Environmental

Client Sample ID: MW-11

Trace Level Organic Compounds

Lot-Sample #...: G6I070284-003 Work Order #...: JDWQ91AA Matrix.....: WATER
Date Sampled...: 09/05/06 Date Received...: 09/07/06
Prep Date.....: 09/11/06 Analysis Date...: 09/13/06
Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra
	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
<u>INTERNAL STANDARDS</u>				
13C-2,3,7,8-TCDD	82	(25 - 141)		

QC DATA ASSOCIATION SUMMARY

G6I070284

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B-Tetra		6254298	
002	WATER	EPA-5 1613B-Tetra		6254298	
003	WATER	EPA-5 1613B-Tetra		6254298	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G6I070284 Work Order #...: JD3NL1AA Matrix.....: WATER
MB Lot-Sample #: G6I110000-298
Prep Date.....: 09/11/06
Analysis Date..: 09/12/06 Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	ND	5.0	pg/L	EPA-5 1613B-Tetra

<u>INTERNAL STANDARDS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
13C-2,3,7,8-TCDD	77	(25 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G6I070284 Work Order #...: JD3NL1AC Matrix.....: WATER
 LCS Lot-Sample#: G6I110000-298
 Prep Date.....: 09/11/06 Analysis Date..: 09/12/06
 Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
2,3,7,8-TCDD	200	222	pg/L	111	EPA-5 1613B-T

<u>INTERNAL STANDARD</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
13C-2,3,7,8-TCDD	86	(25 - 141)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G6I070284 Work Order #...: JD3NL1AC Matrix.....: WATER
LCS Lot-Sample#: G6I110000-298
Prep Date.....: 09/11/06 Analysis Date...: 09/12/06
Prep Batch #...: 6254298

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	111	(73 - 146)	EPA-5 1613B-Tetras

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	86	(25 - 141)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



September 29, 2006
ANALYTICAL CHEMISTS
Kleinfelder Inc.

Lab ID : STK637586
 Customer : 3-2703

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Aluminum	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000		0.3%	≤20
	200.8	09/13/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	100.0 100.0	ND ND 101% 100%	<10 <10 90-110 90-110	
Antimony	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	-1.4% 0.0% 0.066	75-125 75-125 ≤1.00	435 435
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 105% 100%	<1 <1 90-110 90-110	
Arsenic	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	-48.0% -50.0% 0.1%	<¼ <¼ ≤20	408 408
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 96.5% 98.9%	<2 <2 90-110 90-110	
Barium	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	-3.4% -0.6% 0.5%	<¼ <¼ ≤20	408 408
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 101% 107%	<0.2 <0.2 90-110 90-110	
Beryllium	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	0.0% 0.0% 0.0010	75-125 75-125 ≤0.200	435 435
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 90.5% 94.4%	<0.2 <0.2 90-110 90-110	
Boron	200.7	09/07/2006:A203 (SP 608928-03)	MS MSD MSRPD	mg/L mg/L mg/L	4.000 4.000	102% 104% 1.5%	75-125 75-125 ≤20.0	
	200.7	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	5.000 5.000	ND ND 100% 101%	<0.1 <0.1 95-105 90-110	
Cadmium	200.8	09/08/2006:B204	MS	ug/L	5.000	0.1%	75-125	435

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September 29, 2006
Kleinfelder Inc.

Lab ID : STK637586
Customer : 3-2703

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Cadmium	200.8	09/08/2006:B204	MSD MSRPD	ug/L. ug/L.	5.000	0.2% 0.0090	75-125 ≤0.200	435
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 97.4% 99.6%	<0.2 <0.2 90-110 90-110	
Calcium	200.7	09/07/2006:A203 (SP 608928-03)	MS MSD MSRPD	mg/L. mg/L. mg/L.	12.50 12.50	107% 103% 3.4%	75-125 75-125 ≤20.0	
	200.7	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	25.00 25.00	ND ND 98.2% 97.8%	<1 <1 95-105 90-110	
Copper	200.7	09/07/2006:A203 (SP 608928-03)	MS MSD MSRPD	ug/L. ug/L. ug/L.	800.0 800.0	102% 103% 1.0%	75-125 75-125 ≤20.0	
	200.7	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	1.000 1.000	ND ND 97.7% 98.5%	<0.01 <0.01 95-105 90-110	
Iron	200.7	09/07/2006:A203 (SP 608928-03)	MS MSD MSRPD	ug/L. ug/L. ug/L.	4000 4000	103% 103% 0.7%	75-125 75-125 ≤20.0	
	200.7	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	5.000 5.000	ND ND 99.6% 100%	<0.05 <0.05 95-105 90-110	
Lead	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L. ug/L. ug/L.	5.000 5.000	0.4% 0.6% 0.0070	75-125 75-125 ≤0.200	435 435
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 96.0% 99.3%	<0.2 <0.2 90-110 90-110	
Magnesium	200.7	09/07/2006:A203 (SP 608928-03)	MS MSD MSRPD	mg/L. mg/L. mg/L.	12.50 12.50	100% 101% 0.3%	75-125 75-125 ≤20.0	
	200.7	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	25.00 25.00	ND ND 96.8% 96.9%	<1 <1 95-105 90-110	
Manganese	200.7	09/07/2006:A203	MS	ug/L.	800.0	101%	75-125	

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Manganese	200.7	09/07/2006:A203	MSD MSRPD	ug/L ug/L	800.0	101% 0.2%	75-125 ≤20.0	
	200.7	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	1.000 1.000	ND ND 98.3% 97.9%	<0.01 <0.01 95-105 90-110	
Mercury	7470A	09/13/2006:A212 (SP 608915-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L	0.2000 0.2000 0.2000	ND 99.0% 91.3% 97.8% 6.5%	<0.02 85-115 75-125 75-125 ≤20	
	245.1	09/13/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	PPT PPT PPT PPT	200.0 200.0	ND ND 101% 100%	<20 <20 90-110 90-110	
Nickel	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	1.4% 0.6% 0.039	75-125 75-125 ≤1.00	435 435
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 96.2% 97.4%	<1 <1 90-110 90-110	
Potassium	200.7	09/07/2006:A203 (SP 608928-03)	MS MSD MSRPD	mg/L mg/L mg/L	12.50 12.50	112% 112% 0.5%	75-125 75-125 ≤20.0	
	200.7	09/07/2006:A	00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	25.00 25.00	ND ND 96.3% 97.2%	<1 <1 95-105 90-110	
Selenium	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	4.8% 5.4% 0.029	75-125 75-125 ≤2.00	435 435
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 99.5% 99.9%	<2 <2 90-110 90-110	
Silver	200.8	09/08/2006:B204 (SP 608930-04)	MS MSD MSRPD	ug/L ug/L ug/L	5.000 5.000	0.0% -0.1% 0.0050	75-125 75-125 ≤1.00	435 435
	200.8	09/08/2006:B	00-ICB 00-CCB 00-ICV 00-CCV	ppb ppb ppb ppb	120.0 100.0	ND ND 96.5% 101%	<1 <1 90-110 90-110	

Report continued on next page ..

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Sodium	200.7	09/07/2006:A203 (SP 608928-03)	MS	mg/L	12.50	82.6%	< ¼	408
			MSD	mg/L	12.50	82.1%	< ¼	408
			MSRPD	mg/L		0.0%	≤20.0	
	200.7	09/07/2006:A	00-ICB	ppm		ND	<1	
			00-CCB	ppm		ND	<1	
			00-ICV	ppm	25.00	95.6%	95-105	
			00-CCV	ppm	25.00	93.7%	90-110	
Thallium	200.8	09/08/2006:B204 (SP 608930-04)	MS	ug/L	5.000	0.0%	75-125	435
			MSD	ug/L	5.000	0.1%	75-125	435
			MSRPD	ug/L		0.0030	≤0.200	
	200.8	09/08/2006:B	00-ICB	ppb		ND	<0.2	
			00-CCB	ppb		ND	<0.2	
			00-ICV	ppb	120.0	97.7%	90-110	
			00-CCV	ppb	100.0	100%	90-110	
Vanadium	200.8	09/08/2006:B204 (SP 608930-04)	MS	ug/L	5.000	-132%	< ¼	408
			MSD	ug/L	5.000	-194%	< ¼	408
			MSRPD	ug/L		1.8%	≤20	
	200.8	09/08/2006:B	00-ICB	ppb		ND	<2	
			00-CCB	ppb		ND	<2	
			00-ICV	ppb	120.0	105%	90-110	
			00-CCV	ppb	100.0	107%	90-110	
Zinc	200.7	09/07/2006:A203 (SP 608928-03)	MS	ug/L	2000	104%	75-125	
			MSD	ug/L	2000	105%	75-125	
			MSRPD	ug/L		0.9%	≤20.0	
	200.7	09/07/2006:A	00-ICB	ppm		ND	<0.02	
			00-CCB	ppm		ND	<0.02	
			00-ICV	ppm	1.000	99.9%	95-105	
			00-CCV	ppm	1.000	98.8%	90-110	
Wet Chem Bicarbonate	2320B	09/08/2006:B202	Dup	mg/L		3.8%	14.3	
Carbonate	2320B		Dup	mg/L		5.4%	13.4	
Chloride	300.0	09/06/2006:B215 (SP 608938-01)	LCS	mg/L	25.00	97.0%	90-110	
			MS	mg/L	500.0	97.9%	93-110	
			MSD	mg/L	500.0	98.5%	93-110	
			MSRPD	mg/L		0.5%	≤3.02	
	300.0	09/06/2006:A	00-ICB	ppm		ND	<1	
			00-CCB	ppm		ND	<1	
			00-ICV	ppm	50.00	92.9%	90-110	
			00-CCV	ppm	25.00	91.9%	90-110	
Color	2120C	09/06/2006:A208	Dup	units		0.00	5.0	
	2120C	09/06/2006:C	00-CCB	units		ND	<5	

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Color	2120C	09/06/2006:C	00-CCV	units	10.00	100%	90-110	
Cyanide, Total	4500CNCE	09/14/2006:A210 (SP 608929-01)	Blank LCS MS MSD MSRPD	mg/L. mg/L. mg/L. mg/L. mg/L.	0.1000 0.05000 0.05000	ND 108% 90.9% 94.1% 3.4%	<0.005 90-110 10-155 10-155 ≤48.7	
Cyanide	4500CNCE	09/15/2006:A	00-CCB 00-CCV	mg/L. mg/L.	0.1000	ND 110%	<0.01 90-110	
Fluoride	300.0	09/11/2006:B215 (SP 608938-01)	LCS MS MSD MSRPD	mg/L. mg/L. mg/L. mg/L.	2.500 50.00 50.00	105% 109% 108% 0.5%	90-110 90-109 90-109 ≤4.56	
			00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	5.000 2.500	ND ND 102% 93.0%	<0.1 <0.1 90-110 90-110	
Hydroxide	2320B	09/08/2006:B202	Dup	mg/L.		0.00	10	
MBAS (foaming agents)	5540C	09/06/2006:A	00-CCB 00-CCV	mg/L. mg/L.	0.1000	ND 100%	<0.1 99-101	
Nitrate	300.0	09/06/2006:B215 (SP 608938-01)	LCS MS MSD MSRPD	mg/L. mg/L. mg/L. mg/L.	20.00 400.0 400.0	97.1% 96.8% 97.0% 0.2%	90-110 94-111 94-111 ≤2.71	
			00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	40.00 20.00	ND ND 91.7% 92.0%	<0.4 <0.4 90-110 90-110	
Nitrite	300.0	09/06/2006:B215 (SP 608938-01)	LCS MS MSD MSRPD	mg/L. mg/L. mg/L. mg/L.	15.00 300.0 300.0	96.2% 98.3% 98.6% 0.3%	90-110 94-109 94-109 ≤2.61	
			00-ICB 00-CCB 00-ICV 00-CCV	ppm ppm ppm ppm	30.00 15.00	ND ND 94.0% 90.7%	<0.3 <0.3 90-110 90-110	
Odor	2150B	09/06/2006:A222	Dup	TON		0.00	1.0	
pH	4500-H B	09/05/2006:S346	Dup	units		0.3%	4.80	
	4500-H B	09/05/2006:S	00-CCV	units	8.000	100%	95-105	
Specific Conductance	2510B	09/07/2006:A212	Blank Dup	umhos/cm umhos/cm		ND 0.1%	<1 0.743	

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Specific Conductance	2510B	09/07/2006:A	00-ICB	umhos/cm		ND	<1	
			00-ICV	umhos/cm	10000	99.8%	95-105	
			00-CCV	umhos/cm	1006	99.3%	95-105	
Sulfate	300.0	09/06/2006:B215 (SP 608938-01)	LCS	mg/L	50.00	95.4%	90-110	
			MS	mg/L	1000	96.2%	96-113	
			MSD	mg/L	1000	96.6%	96-113	
	MSRPD	mg/L		0.4%	≤2.29			
	300.0	09/06/2006:A	00-ICB	ppm		ND	<2	
			00-CCB	ppm		ND	<2	
00-ICV			ppm	100.0	90.5%	90-110		
			00-CCV	ppm	50.00	90.1%	90-110	
Total Alkalinity (as CaCO3)	2320B	09/08/2006:B202	Dup	mg/L		0.3%	9.03	
	2320B	09/08/2006:A	00-ICV	mg/l	234.9	92.9%	90-110	
			00-CCV	mg/l	234.9	92.1%	90-110	
Total Dissolved Solids	2540C	09/07/2006:A235	Blank	mg/L		ND	<40	
			LCS	mg/L	1000	101%	90-110	
			Dup	mg/L		0.3%	10.0	
Turbidity	2130B	09/06/2006:A245	Dup	NTU		0.00	0.20	
	2130B	09/06/2006:A	00-CCB	NTU		ND	<0.2	
			00-CCV	NTU	2.000	97.5%	90-110	

Explanations

- 355 CCV not within Acceptance Range (AR). Results were reported with client approval.
- 408 Matrix Spike(MS) or Post Digestion Spike(PDS) has no Acceptance Range (DQO) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.
- 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Definitions

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- < ¼ : High Sample Background - Spike concentration was less than one fourth of the sample concentration.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

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September 29, 2006
Kleinfelder Inc.

Lab ID : STK637586
Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
DBCP	504.1	09/10/2006:A203 (SP 609021-01)	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.2941	95.0%	70-130	
			MS	ug/L	0.2941	98.6%	70-130	
			MSD	ug/L	0.2941	92.2%	70-130	
			MSRPD	ug/L		6.7%	≤30	
	504.1	09/10/2006:A	00-CCV	ug/L	5.000	89.0%	70-130	
			01-CCV	ug/L	5.000	94.0%	70-130	
			02-CCV	ug/L	10.00	108%	70-130	
1,3-Dibromopropane-Surrogate	504.1	09/10/2006:A203 (SP 609021-01)	Blank	ug/L	0.5882	111%	70-130	
			LCS	ug/L	0.5882	108%	70-130	
			MS	ug/L	0.5882	108%	70-130	
			MSD	ug/L	0.5882	107%	70-130	
	504.1	09/10/2006:A	00-CCV	ug/L	9.975	108%	70-130	
			01-CCV	ug/L	9.975	106%	70-130	
			02-CCV	ug/L	9.975	116%	70-130	
EDB	504.1	09/10/2006:A203 (SP 609021-01)	Blank	ug/L		0.011	<0.01	
			LCS	ug/L	0.2941	101%	70-130	
			MS	ug/L	0.2941	102%	70-130	
			MSD	ug/L	0.2941	103%	70-130	
			MSRPD	ug/L		1.2%	≤30	
	504.1	09/10/2006:A	00-CCV	ug/L	5.000	101%	70-130	
			01-CCV	ug/L	5.000	99.2%	70-130	
			02-CCV	ug/L	10.00	107%	70-130	
Alachlor	505	09/11/2006:A204	Blank	ug/L		ND	<0.2	
			LCS	ug/L	1.476	135%	40-148	
			BS	ug/L	1.476	119%	43-145	
			BSD	ug/L	1.476	130%	43-145	
			BSRPD	ug/L		8.2%	≤52.4	
	505	09/18/2006:A	00-CCV	ug/L	100.0	115%	70-130	
Aldrin	505	09/11/2006:A204	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.5882	129%	48-164	
			BS	ug/L	0.5882	127%	49-155	
			BSD	ug/L	0.5882	128%	49-155	
			BSRPD	ug/L		1.1%	≤33.3	
	505	09/18/2006:A	00-CCV	ug/L	10.00	111%	70-130	
Chlordane	505	09/11/2006:A204	Blank	ug/L		ND	<0.1	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
Dieldrin	505	09/11/2006:A204	Blank	ug/L		ND	<0.01	
			LCS	ug/L	0.5882	112%	41-146	
			BS	ug/L	0.5882	112%	47-138	
			BSD	ug/L	0.5882	113%	47-138	
			BSRPD	ug/L		0.7%	≤39.6	
	505	09/18/2006:A	00-CCV	ug/L	10.00	109%	70-130	

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September 29, 2006
 Kleinfelder Inc.

Lab ID : STK637586
 Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Endrin	505	09/11/2006:A204	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	 0.5882 0.5882 0.5882	ND 118% 116% 116% 0.5%	<0.01 53-147 53-146 53-146 ≤46.7	
	505	09/18/2006:A	00-CCV	ug/L	10.00	112%	70-130	
Heptachlor	505	09/11/2006:A204	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	 0.5882 0.5882 0.5882	ND 122% 120% 121% 0.7%	<0.01 50-157 51-150 51-150 ≤42.3	
	505	09/18/2006:A	00-CCV	ug/L	10.00	111%	70-130	
Heptachlor Epoxide	505	09/11/2006:A204	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	 0.5882 0.5882 0.5882	ND 114% 113% 114% 1.1%	<0.01 57-145 53-148 53-148 ≤43.3	
	505	09/18/2006:A	00-CCV	ug/L	10.00	109%	70-130	
Hexachlorobenzene	505	09/11/2006:A204	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	 0.2941 0.2941 0.2941	ND 120% 118% 119% 1.0%	<0.01 49-156 49-152 49-152 ≤35.0	
	505	09/18/2006:A	00-CCV	ug/L	10.00	111%	70-130	
Hexachlorocyclopentadiene	505	09/11/2006:A204	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	 0.5882 0.5882 0.5882	ND 120% 114% 115% 0.2%	<0.1 57-151 0-343 0-343 ≤33.9	
	505	09/18/2006:A	00-CCV	ug/L	10.00	124%	70-130	
Lindane	505	09/11/2006:A204	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	 0.5882 0.5882 0.5882	ND 122% 120% 121% 1.0%	<0.05 34-161 35-165 35-165 ≤62.1	
	505	09/18/2006:A	00-CCV	ug/L	10.00	110%	70-130	
Methoxychlor	505	09/11/2006:A204	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	 5.900 5.900 5.900	ND 111% 109% 107% 1.2%	<0.1 48-157 55-149 55-149 ≤44.5	
	505	09/18/2006:A	00-CCV	ug/L	50.00	111%	70-130	

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September 29, 2006
Kleinfelder Inc.

Lab ID : STK637586
Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
PCB 1016	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1221	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1232	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1242	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1248	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1254	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
PCB 1260	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
Toxaphene	505	09/11/2006:A204	Blank	ug/L		ND	<0.5	
	505	09/18/2006:A	00-CCV	ug/L	0.000	N/A	70-130	
Alachlor	507	09/10/2006:A205	Blank	ug/L		ND	<1	410
			LCS	ug/L	2.500	118%	70-130	
Atrazine	507	09/10/2006:A205	BS	ug/L	2.500	107%	74-218	360
			BSD	ug/L	2.500	152%	74-218	
Bromacil	507	09/10/2006:A205	BSRPD	ug/L		1.1	≤1.00	310
			00-CCV	ug/L	1000	106%	80-120	
Atrazine	507	09/19/2006:B	01-CCV	ug/L	500.0	135%	80-120	360
			Blank	ug/L		ND	<0.5	
Atrazine	507	09/10/2006:A205	LCS	ug/L	2.500	123%	70-130	360
			BS	ug/L	2.500	142%	82-210	
Atrazine	507	09/19/2006:B	BSD	ug/L	2.500	170%	82-210	360
			BSRPD	ug/L		18.0%	≤25.5	
Bromacil	507	09/10/2006:A205	00-CCV	ug/L	1000	106%	80-120	310
			01-CCV	ug/L	500.0	125%	80-120	
Bromacil	507	09/10/2006:A205	Blank	ug/L		ND	<2	310
			LCS	ug/L	2.500	138%	70-130	
Bromacil	507	09/10/2006:A205	BS	ug/L	2.500	128%	77-216	310
			BSD	ug/L	2.500	183%	77-216	
Bromacil	507	09/10/2006:A205	BSRPD	ug/L		1.4	≤2.00	310
			00-CCV	ug/L	1000	106%	80-120	
Bromacil	507	09/10/2006:A205	01-CCV	ug/L	500.0	125%	80-120	310
			Blank	ug/L		ND	<2	

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September 29, 2006
 Kleinfelder Inc.

Lab ID : STK637586
 Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Bromacil	507	09/19/2006:B	00-CCV	ug/L	1000	106%	80-120	
			01-CCV	ug/L	500.0	109%	80-120	
Butachlor	507	09/10/2006:A205	Blank	ug/L		ND	<1	310
			LCS	ug/L	2.500	144%	70-130	
			BS	ug/L	2.500	141%	58-222	
			BSD	ug/L	2.500	164%	58-222	
	BSRPD	ug/L		0.59	≤1.00			
507	09/19/2006:B	00-CCV	ug/L	1000	118%	80-120	360	
01-CCV	ug/L	500.0	142%	80-120				
Diazinon	507	09/10/2006:A205	Blank	ug/L		ND	<2	
			LCS	ug/L	2.500	109%	70-130	
			BS	ug/L	2.500	121%	52-199	
			BSD	ug/L	2.500	162%	52-199	
	BSRPD	ug/L		1.0	≤2.00			
507	09/19/2006:B	00-CCV	ug/L	1000	104%	80-120	360	
01-CCV	ug/L	500.0	134%	80-120				
Dimethoate	507	09/10/2006:A205	Blank	ug/L		ND	<2	310
			LCS	ug/L	2.500	134%	70-130	
			BS	ug/L	2.500	149%	68-206	
			BSD	ug/L	2.500	183%	68-206	
	BSRPD	ug/L		0.85	≤2.00			
507	09/19/2006:B	00-CCV	ug/L	1000	105%	80-120	360	
01-CCV	ug/L	500.0	134%	80-120				
Metolachlor	507	09/10/2006:A205	Blank	ug/L		ND	<1	
			LCS	ug/L	2.500	107%	70-130	
			BS	ug/L	2.500	138%	69-215	
			BSD	ug/L	2.500	161%	69-215	
	BSRPD	ug/L		0.58	≤1.00			
507	09/19/2006:B	00-CCV	ug/L	1000	97.3%	80-120	360	
01-CCV	ug/L	500.0	123%	80-120				
Metribuzin	507	09/10/2006:A205	Blank	ug/L		ND	<0.5	
			LCS	ug/L	2.500	130%	70-130	
			BS	ug/L	2.500	142%	67-232	
			BSD	ug/L	2.500	185%	67-232	
	BSRPD	ug/L		26.7%	≤40.9			
507	09/19/2006:B	00-CCV	ug/L	1000	105%	80-120	360	
01-CCV	ug/L	500.0	145%	80-120				
Molinate	507	09/10/2006:A205	Blank	ug/L		ND	<0.5	410
			LCS	ug/L	2.500	104%	70-130	
			BS	ug/L	2.500	142%	62-239	
			BSD	ug/L	2.500	181%	62-239	
	BSRPD	ug/L		24.2%	≤20.4			
507	09/19/2006:B	00-CCV	ug/L	1000	105%	80-120		

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Molinate	507	09/19/2006:B	01-CCV	ug/L	500.0	125%	80-120	360
Prometryn	507	09/10/2006:A205	Blank	ug/L		ND	<2	
			LCS	ug/L	2.500	128%	70-130	
			BS	ug/L	2.500	137%	76-204	
			BSD	ug/L	2.500	177%	76-204	
			BSRPD	ug/L		1.0	≤2.00	
	507	09/19/2006:B	00-CCV	ug/L	1000	107%	80-120	
			01-CCV	ug/L	500.0	138%	80-120	360
Propachlor	507	09/10/2006:A205	Blank	ug/L		ND	<1	
			LCS	ug/L	2.500	97.0%	70-130	
			BS	ug/L	2.500	138%	75-219	
			BSD	ug/L	2.500	167%	75-219	
			BSRPD	ug/L		0.72	≤1.00	
	507	09/19/2006:B	00-CCV	ug/L	1000	99.1%	80-120	
			01-CCV	ug/L	500.0	127%	80-120	360
Simazine	507	09/10/2006:A205	Blank	ug/L		ND	<0.5	
			LCS	ug/L	2.500	133%	70-130	310
			BS	ug/L	2.500	148%	83-211	
			BSD	ug/L	2.500	176%	83-211	
			BSRPD	ug/L		16.5%	≤21.1	
	507	09/19/2006:B	00-CCV	ug/L	1000	106%	80-120	
			01-CCV	ug/L	500.0	128%	80-120	360
Thiobencarb	507	09/10/2006:A205	Blank	ug/L		ND	<0.5	
			LCS	ug/L	2.500	115%	70-130	
			BS	ug/L	2.500	140%	78-211	
			BSD	ug/L	2.500	170%	78-211	
			BSRPD	ug/L		19.3%	≤23.1	
	507	09/19/2006:B	00-CCV	ug/L	1000	107%	80-120	
			01-CCV	ug/L	500.0	136%	80-120	360
Triphenylphosphate-Surrogate	507	09/10/2006:A205	Blank	ug/L	12.50	ND	70-130	565
			LCS	ug/L	12.50	65.5%	70-130	565
			BS	ug/L	12.50	68.9%	70-130	560
			BSD	ug/L	12.50	77.7%	70-130	
	507	09/19/2006:B	00-CCV	ug/L	7500	110%	80-120	
			01-CCV	ug/L	2500	132%	80-120	565
Bentazon	515.3	09/21/2006:A	00-CCV	ug/L	80.00	118%	70-130	
2,4-D	515.3		00-CCV	ug/L	80.00	122%	70-130	
2,4-DCAA-Surrogate	515.3		00-CCV	ug/L	200.0	99.1%	70-130	
Dalapon	515.3		00-CCV	ug/L	520.0	111%	70-130	
Dicamba	515.3		00-CCV	ug/L	40.00	108%	70-130	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Dinoseb	515.3	09/21/2006:A	00-CCV	ug/L	80.00	123%	70-130	
Pentachlorophenol	515.3		00-CCV	ug/L	40.00	105%	70-130	
Picloram	515.3		00-CCV	ug/L	40.00	99.6%	70-130	
2,4,5-T	515.3		00-CCV	ug/L	40.00	106%	70-130	
2,4,5-TP (Silvex)	515.3		00-CCV	ug/L	40.00	107%	70-130	
Benzene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	115%	70-129	
			BSD	ug/L	10.00	111%	70-129	
			BSRPD	ug/L		4.0%	≤14.3	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	104%	70-130	
Bromobenzene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	108%	64-140	
			BSD	ug/L	10.00	93.9%	64-140	
			BSRPD	ug/L		13.6%	≤17.1	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	79.6%	70-130	
Bromochloromethane	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	102%	63-153	
			BSD	ug/L	10.00	119%	63-153	
			BSRPD	ug/L		15.1%	≤19.6	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	104%	70-130	
Bromodichloromethane	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	125%	75-140	
			BSD	ug/L	10.00	109%	75-140	
			BSRPD	ug/L		13.5%	≤15.6	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	110%	70-130	
4-Bromofluorobenzene-Surrogate	524.2	09/11/2006:A209	Blank	ug/L	10.00	87.8%	70-130	
			BS	ug/L	10.00	126%	70-130	
			BSD	ug/L	10.00	102%	70-130	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	89.9%	70-130	
Bromoform	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	116%	69-140	
			BSD	ug/L	10.00	104%	69-140	
			BSRPD	ug/L		10.6%	≤18.7	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	88.2%	70-130	
Bromomethane	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	129%	53-144	
			BSD	ug/L	10.00	105%	53-144	
			BSRPD	ug/L		20.5%	≤17.9	
								410

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September 29, 2006
 Kleinfelder Inc.

Lab ID : STK637586
 Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Bromomethane	524.2	09/11/2006:A	00-CCV	ug/L	10.00	86.0%	70-130	
tert-Butanol	524.2	09/11/2006:A209	Blank	ug/L		ND	<2	
			BS	ug/L	50.00	136%	42-165	
			BSD	ug/L	50.00	128%	42-165	
			BSRPD	ug/L		6.0%	≤38.8	
	524.2	09/11/2006:A	00-CCV	ug/L	50.00	118%	70-130	
n-Butylbenzene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	138%	72-117	426
			BSD	ug/L	10.00	118%	72-117	426
			BSRPD	ug/L		15.6%	≤17.8	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	107%	70-130	
sec-Butylbenzene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	129%	63-118	426
			BSD	ug/L	10.00	108%	63-118	
			BSRPD	ug/L		17.9%	≤18.2	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	94.9%	70-130	
tert-Butylbenzene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	115%	54-129	
			BSD	ug/L	10.00	100%	54-129	
			BSRPD	ug/L		13.7%	≤18.7	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	86.3%	70-130	
Carbon Tetrachloride	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	122%	51-158	
			BSD	ug/L	10.00	129%	51-158	
			BSRPD	ug/L		5.2%	≤15.0	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	133%	70-130	360
Chlorobenzene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	105%	30-160	
			BSD	ug/L	10.00	87.0%	30-160	
			BSRPD	ug/L		18.3%	≤16.1	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	74.8%	70-130	
Chloroethane	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	134%	58-131	426
			BSD	ug/L	10.00	109%	58-131	
			BSRPD	ug/L		21.3%	≤18.0	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	98.9%	70-130	
Chloroform	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	120%	74-137	
			BSD	ug/L	10.00	130%	74-137	
			BSRPD	ug/L		8.1%	≤18.2	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Chloroform	524.2	09/11/2006:A	00-CCV	ug/L	10.00	113%	70-130	
Chloromethane	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	123%	35-131	
			BSD	ug/L	10.00	107%	35-131	
			BSRPD	ug/L		13.6%	≤23.3	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	92.5%	70-130	
2-Chlorotoluene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	130%	67-126	
			BSD	ug/L	10.00	111%	67-126	426
			BSRPD	ug/L		15.7%	≤16.3	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	96.6%	70-130	
4-Chlorotoluene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	126%	68-124	
			BSD	ug/L	10.00	106%	68-124	426
			BSRPD	ug/L		17.6%	≤17.8	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	94.9%	70-130	
Di-isopropyl ether (DIPE)	524.2	09/11/2006:A209	Blank	ug/L		ND	<3	
			BS	ug/L	10.00	132%	52-128	
			BSD	ug/L	10.00	120%	52-128	426
			BSRPD	ug/L		1.3	≤3.00	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	105%	70-130	
Dibromochloromethane	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	115%	59-139	
			BSD	ug/L	10.00	98.6%	59-139	
			BSRPD	ug/L		15.7%	≤22.0	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	84.0%	70-130	
Dibromomethane	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	119%	79-155	
			BSD	ug/L	10.00	109%	79-155	
			BSRPD	ug/L		8.6%	≤17.2	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	117%	70-130	
1,2-Dichlorobenzene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	128%	59-147	
			BSD	ug/L	10.00	107%	59-147	
			BSRPD	ug/L		17.5%	≤17.3	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	92.4%	70-130	
1,3-Dichlorobenzene	524.2	09/11/2006:A209	Blank	ug/L		ND	<0.5	
			BS	ug/L	10.00	120%	63-137	
			BSD	ug/L	10.00	106%	63-137	
			BSRPD	ug/L		12.5%	≤16.0	

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Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
1,3-Dichlorobenzene	524.2	09/11/2006:A	00-CCV	ug/L	10.00	89.2%	70-130	
1,4-Dichlorobenzene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 127% 108% 16.3%	<0.5 60-137 60-137 ≤17.9	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	93.8%	70-130	
1,2-Dichlorobenzene-d4-Surrogate	524.2	09/11/2006:A209	Blank BS BSD	ug/L ug/L ug/L	10.00 10.00 10.00	73.8% 123% 102%	70-130 70-130 70-130	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	89.7%	70-130	
Dichlorodifluoromethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 121% 99.8% 19.2%	<0.5 27-138 27-138 ≤43.4	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	87.9%	70-130	
1,1-Dichloroethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 137% 115% 17.7%	<0.5 56-121 56-121 ≤15.4	426 410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	105%	70-130	
1,2-Dichloroethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 135% 138% 2.8%	<0.5 67-158 67-158 ≤14.3	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	133%	70-130	360
1,1-Dichloroethylene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 149% 120% 21.5%	<0.5 62-120 62-120 ≤18.1	426 410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	104%	70-130	
cis-1,2-Dichloroethylene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 125% 105% 17.2%	<0.5 66-129 66-129 ≤16.1	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	91.2%	70-130	
trans-1,2-Dichloroethylene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 122% 103% 17.4%	<0.5 63-130 63-130 ≤16.9	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	90.3%	70-130	

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September 29, 2006
Kleinfelder Inc.

Lab ID : STK637586
Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Dichloromethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 130% 109% 17.2%	<0.5 74-123 74-123 ≤13.8	426 410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	100%	70-130	
1,2-Dichloropropane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 124% 114% 8.1%	<0.5 57-135 57-135 ≤13.5	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	106%	70-130	
1,3-Dichloropropane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 115% 100% 13.6%	<0.5 41-159 41-159 ≤26.9	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	87.0%	70-130	
2,2-Dichloropropane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 151% 124% 20.0%	<0.5 57-163 57-163 ≤16.4	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	114%	70-130	
1,1-Dichloropropene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 121% 118% 2.1%	<0.5 70-128 70-128 ≤14.5	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	113%	70-130	
cis-1,3-Dichloropropene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 110% 97.9% 12.1%	<0.5 61-135 61-135 ≤20.7	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	86.0%	70-130	
trans-1,3-Dichloropropene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 114% 101% 12.6%	<0.5 58-146 58-146 ≤25.8	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	88.6%	70-130	
Ethyl Benzene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 115% 97.8% 15.9%	<0.5 55-136 55-136 ≤15.7	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	85.0%	70-130	

Report continued on next page...

September 29, 2006
Kleinfelder Inc.

Lab ID : STK637586
Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Ethyl tert-Butyl Ether (ETBE)	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 126% 116% 0.97	<3 58-119 58-119 ≤3.00	426
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	101%	70-130	
Hexachlorobutadiene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 149% 128% 15.1%	<0.5 62-165 62-165 ≤20.2	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	117%	70-130	
Isopropylbenzene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 119% 95.9% 21.6%	<0.5 53-127 53-127 ≤16.2	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	83.5%	70-130	
p-Isopropyltoluene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 130% 110% 17.2%	<0.5 57-128 57-128 ≤19.4	426
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	103%	70-130	
Methyl tert-Butyl Ether (MTBE)	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 132% 118% 11.2%	<1 66-133 66-133 ≤20.3	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	102%	70-130	
Naphthalene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 149% 132% 12.2%	<0.5 22-192 22-192 ≤39.5	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	115%	70-130	
n-Propylbenzene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 122% 103% 17.6%	<0.5 69-116 69-116 ≤16.9	426 410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	91.2%	70-130	
Styrene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 110% 92.6% 17.6%	<0.5 50-143 50-143 ≤15.5	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	82.1%	70-130	

Report continued on next page...

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Tert-amyl-methyl Ether (TAME)	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 112% 117% 0.50	<3 49-141 49-141 ≤3.00	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	106%	70-130	
1,1,1,2-Tetrachloroethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 111% 92.0% 18.7%	<0.5 52-154 52-154 ≤15.6	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	83.5%	70-130	
1,1,1,2-Tetrachloroethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 123% 105% 15.5%	<0.5 89-169 89-169 ≤27.4	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	92.0%	70-130	
Tetrachloroethylene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 101% 85.0% 17.1%	<0.5 55-143 55-143 ≤29.0	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	76.1%	70-130	
Toluene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 107% 91.0% 15.9%	<0.5 63-134 63-134 ≤16.1	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	80.3%	70-130	
1,2,3-Trichlorobenzene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 142% 126% 12.3%	<0.5 54-165 54-165 ≤22.6	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	109%	70-130	
1,2,4-Trichlorobenzene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 127% 114% 10.7%	<0.5 59-151 59-151 ≤21.3	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	99.2%	70-130	
1,1,1-Trichloroethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 121% 132% 8.5%	<0.5 56-171 56-171 ≤16.4	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	131%	70-130	360

Report continued on next page.

September 29, 2006
Kleinfelder Inc.

Lab ID : STK637586
Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
1,1,2-Trichloroethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 112% 96.4% 14.6%	<0.5 44-165 44-165 ≤24.5	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	83.3%	70-130	
Trichloroethylene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 113% 121% 6.4%	<0.5 69-133 69-133 ≤16.8	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	121%	70-130	
Trichlorofluoromethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 154% 126% 20.4%	<0.5 40-173 40-173 ≤19.5	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	117%	70-130	
1,2,3-Trichloropropane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 136% 120% 11.8%	<0.5 63-162 63-162 ≤19.1	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	103%	70-130	
1,1,2-Trichlorotrifluoroethane	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 134% 108% 21.8%	<0.5 58-150 58-150 ≤16.9	410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	103%	70-130	
1,2,4-Trimethylbenzene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 126% 106% 16.9%	<0.5 65-126 65-126 ≤17.6	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	97.2%	70-130	
1,3,5-Trimethylbenzene	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 124% 110% 12.0%	<0.5 64-125 64-125 ≤16.6	
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	93.1%	70-130	
Vinyl Chloride	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	10.00 10.00	ND 135% 109% 20.7%	<0.5 47-124 47-124 ≤18.6	426 410
	524.2	09/11/2006:A	00-CCV	ug/L	10.00	94.3%	70-130	

Report continued on next page...

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Xylenes m,p	524.2	09/11/2006:A209	Blank BS BSD BSRPD	ug/L ug/L ug/L ug/L	20.00 20.00	ND 108% 90.9% 17.3%	<0.5 43-151 43-151 ≤16.1	410
	524.2	09/11/2006:A	00-CCV	ug/L	20.00	81.5%	70-130	
Benzo(a)pyrene	525.2	09/17/2006:A210	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	5.000 5.000 5.000	ND 105% 106% 108% 1.6%	<0.1 70-130 70-130 70-130 ≤30.0	
	525.2	09/21/2006:A	00-CCV	mg/L	2.000	93.3%	70-130	
bis(2-Ethylhexyl)adipate	525.2	09/17/2006:A210	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	5.000 5.000 5.000	ND 92.3% 92.4% 92.1% 0.017	<1 70-130 70-130 70-130 ≤1.00	
	525.2	09/21/2006:A	00-CCV	mg/L	2.000	90.0%	70-130	
bis(2-Ethylhexyl)phthalate	525.2	09/17/2006:A210	Blank LCS BS BSD BSRPD	ug/L ug/L ug/L ug/L ug/L	5.000 5.000 5.000	ND 94.2% 93.6% 92.5% 0.057	<3 70-130 70-130 70-130 ≤3.00	
	525.2	09/21/2006:A	00-CCV	mg/L	2.000	86.9%	70-130	
Perylene-d12-Surrogate	525.2	09/17/2006:A210	Blank LCS BS BSD	ug/L ug/L ug/L ug/L	5.000 5.000 5.000 5.000	97.1% 103% 103% 107%	70-130 70-130 70-130 70-130	
	525.2	09/21/2006:A	00-CCV	mg/L	5.000	102%	70-130	
Aldicarb	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	20.00 20.00 20.00	ND 84.4% 86.9% 83.2% 4.3%	<3 80-120 65-135 65-135 ≤11.2	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	92.2%	80-120	
Aldicarb Sulfone	531.1	09/18/2006:A211 (STK637328-01)	Blank LCS MS MSD MSRPD	ug/L ug/L ug/L ug/L ug/L	20.00 20.00 20.00	ND 108% 114% 112% 1.5%	<3 80-120 65-135 65-135 ≤7.28	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	110%	80-120	
Aldicarb Sulfoxide	531.1	09/18/2006:A211	Blank	ug/L		ND	<3	

Report continued on next page...

September 29, 2006
Kleinfelder Inc.

Lab ID : STK637586
Customer : 3-2703

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Aldicarb Sulfoxide	531.1	09/18/2006:A211 (STK637328-01)	LCS	ug/L	20.00	107%	80-120	
			MS	ug/L	20.00	114%	65-135	
			MSD	ug/L	20.00	113%	65-135	
			MSRPD	ug/L		1.2%	≤11.2	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	107%	80-120	
Carbaryl	531.1	09/18/2006:A211 (STK637328-01)	Blank	ug/L		ND	<5	
			LCS	ug/L	20.00	117%	80-120	
			MS	ug/L	20.00	123%	65-135	
			MSD	ug/L	20.00	122%	65-135	
			MSRPD	ug/L		0.26	≤5.00	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	117%	80-120	
Carbofuran	531.1	09/18/2006:A211 (STK637328-01)	Blank	ug/L		ND	<5	
			LCS	ug/L	20.00	110%	80-120	
			MS	ug/L	20.00	112%	65-135	
			MSD	ug/L	20.00	115%	65-135	
			MSRPD	ug/L		0.76	≤5.00	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	107%	80-120	
3-Hydroxycarbofuran	531.1	09/18/2006:A211 (STK637328-01)	Blank	ug/L		ND	<3	
			LCS	ug/L	20.00	114%	80-120	
			MS	ug/L	20.00	118%	65-135	
			MSD	ug/L	20.00	118%	65-135	
			MSRPD	ug/L		0.8%	≤16.8	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	111%	80-120	
Methomyl	531.1	09/18/2006:A211 (STK637328-01)	Blank	ug/L		ND	<2	
			LCS	ug/L	20.00	98.2%	80-120	
			MS	ug/L	20.00	101%	65-135	
			MSD	ug/L	20.00	100%	65-135	
			MSRPD	ug/L		1.0%	≤53.1	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	99.2%	80-120	
Oxamyl	531.1	09/18/2006:A211 (STK637328-01)	Blank	ug/L		ND	<5	
			LCS	ug/L	20.00	107%	80-120	
			MS	ug/L	20.00	112%	65-135	
			MSD	ug/L	20.00	112%	65-135	
			MSRPD	ug/L		0.11	≤5.00	
	531.1	09/18/2006:A	00-CCV	ug/L	10.00	108%	80-120	
Glyphosate	547	09/07/2006:A212 (STK637328-01)	Blank	ug/L		ND	<5	
			LCS	ug/L	200.0	103%	49-164	
			MS	ug/L	200.0	102%	57-160	
			MSD	ug/L	200.0	105%	57-160	
			MSRPD	ug/L		2.4%	≤11.2	
	547	09/07/2006:A	00-CCV	ug/L	200.0	103%	80-120	
Endothall	548.1	09/12/2006:A213	Blank	ug/L		ND	<40	

Report continued on next page...

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Endothall	548.1	09/12/2006:A213 (STK637600-02)	LCS	ug/L	83.33	126%	10-125	310
			MS	ug/L	83.33	73.1%	0- 90	
			MSD	ug/L	83.33	79.8%	0- 90	
			MSRPD	ug/L		5.6	≤40.0	
	548.1	09/13/2006:A	00-CCV	ug/L	1000	95.5%	70-130	
Diquat	549.2	09/12/2006:A214 (STK637600-03)	Blank	ug/L		ND	<2	435
			LCS	ug/L	20.00	74.9%	0-143	
			MS	ug/L	20.00	35.9%	14-130	
			MSD	ug/L	20.00	8.7%	14-130	
			MSRPD	ug/L		5.4	≤2.00	
	549.2	09/13/2006:A	00-CCV	ug/L	1000	99.5%	80-120	
Diuron	632	09/12/2006:A226	Blank	ug/L		ND	<0.1	
			LCS	ug/L	1.000	71.3%	33-102	
			BS	ug/L	1.000	70.3%	33- 102	
			BSD	ug/L	1.000	61.2%	33- 102	
			BSRPD	ug/L		14.5%	≤20.3	
	632	09/14/2006:A	00-CCV	ug/L	1000	90.3%	90-110	

Explanations

- 310 LCS above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
- 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
- 410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery.
- 426 Blank Spike (BS) not within Acceptance Range (AR). Data was accepted based on the LCS or CCV recovery.
- 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
- 560 Surrogate percent recoveries not within the Acceptance Range (AR) due to suspected matrix interferences.
- 565 Surrogate percent recoveries not within the Acceptance Range (AR). Please see Case Narrative for explanation.

Definitions

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- BS/BSD : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- < ¼ : High Sample Background - Spike concentration was less than one fourth of the sample concentration
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Report continued on next page.

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Gross Alpha	900.0	09/09/2006:A207	Blank LCS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 45.16 45.16 45.16	ND 106% 125% 121% 3.5%	<1 75-125 60-140 60-140 ≤30	
Alpha-α	900.0	09/11/2006:A	00-CCB 00-CCV	cpm cpm	 12240	0.10 40.3%	0759±.051 41.2±5.0	
Gross Beta	900.0	09/09/2006:A207	Blank LCS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 110.3 110.3 110.3	ND 105% 107% 107% 0.3%	<4 75-125 80-130 80-130 ≤30	
Beta-β	900.0	09/11/2006:A	00-CCB 00-CCV	cpm cpm	 12240	0.44 87.1%	.376±.097 88.6±5.0	

Definitions

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- BS/BSD : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- <¼ : High Sample Background - Spike concentration was less than one fourth of the sample concentration
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.



32928:09/04/2006 TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Client: Klemfelder Inc.

Address: 2825 East Myrtle Street
Stockton, CA 95205

Phone: (209)948-1345 x266 Fax: (209)948-0621

Contact Person: Joe Zilles

Project Name: Mariposa Lake

Purchase Order Number:

Quote Number: ST20051021_01

Sampler(s)
Brian

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: / / Time: /

Lab Number: **STK 637086** 3-2703

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bact: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O)	EPA 504 I-DBCP,EDB 40ml(VOA)	EPA 524 2 40ml(VOA)-HCl	EPA 525 2 1000ml(AGT)	Coliform - Collet P/A 120ml(PBa)-Na2S2O3 <i>10 TUBE CR</i>	General Mineral pH - Analyze in STK 8oz(P), 16oz(P)-H2SO4	Metals, Total-Al,Sb,As,Ba,Be,Cd,Pb,Hg,NI,Se,Ag,Tl,V 500ml(P)-HNO3	Wet Chemistry-Color,Cyanide,Odor,Turbidity 16oz(P), 16oz(P)-NaOH	EPA 505 40ml(VOA)	EPA 507 1000ml(AGT)	EPA 515 250ml(AGT)	EPA 531 I 40ml(AGT)-Monochloroacetic Buffer	EPA 547 125ml(AGT)	EPA 548 I 1000ml(AGT)	EPA 549-Diquat 1000ml(AGT)	
0	Travel Blank			G	LBW																	
1	MW-5	9/5/06	0950	G	GW NP	0	0	2	2	1	1	1.1	1	1.1	1	1	1	1	1	1	1	1
2	MW-10	9/5/06	1201	G	GW NP	0	0	2	2	1	1	1.1	1	1.1	1	1	1	1	1	1	1	1
3	MW-11	9/5/06	1300	G	GW NP	0	0	2	2	1	1	1.1	1	1.1	1	1	1	1	1	1	1	1
4	MW-12	9/5/06	1500	G	GW NP	0	0	2	2	1	1	1.1	1	1.1	1	1	1	1	1	1	1	1

Remarks: Multiple Chams
MW-5 Coliform resampled @ 1500 9/5/06

Relinquished By: *Brian Zilles* Date: 9/5/06 1640
Relinquished Date: 9/5/06 1700
Received By: *Caloney* Date: 9/5/06 1700



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CHAIN OF CUSTODY
Laboratory Copy (1 of 3)

32928:09/04/2006 TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling Information

Client: **Kreinfelder Inc.**
Address: 2825 East Myrtle Street
Stockton, CA 95205

Phone: (209)948-1345 x266 Fax: (209)948-0621

Contact Person: **Joe Zilles**

Project Name: **Mariposa Lake**

Purchase Order Number:

Quote Number: **ST20051021_01**

Sampler(s)

PRVIA M

Sampling Fee: _____ Pickup Fee: _____

Compositor Setup Date: _____ Time: _____

Lab Number: **STK 637596** 3-2703

Sample Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O)	EPA 632 1000ml(AGI)	Radio Chemistry-Gross Alpha,Gross Beta 32oz(P)	Dioxin - HR, EPA 1613B - 2,3,7,8, TCDD 1000ml(AGI)
0	Travel Blank			G	LBW					
1	MW-5	7/5/06	1500	G	GW	NP	O	1	1	Sub-2
2	MW-10	7/5/06	1201	G	GW	NP	O	1	1	Sub-2
3	MW-11	7/5/06	1300	G	GW	NP	D	1	1	Sub-2
				G	GW			1	1	Sub-2

Remarks: Multiple Chains

Relinquished	Received By: <i>Brian Strigani</i>	Date: 9/5/06	Time: 1640	Relinquished	Received By: <i>Dr. Calore</i>	Date: 9/5/06	Time: 1700	Relinquished	Received By: <i>[Signature]</i>	Date: 9/10/06	Time: 1000
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Corporate Offices & Laboratory
P.O. Box 272 / 853 Corporation Street
Santa Paula, CA 93061-0272
TEL: (805) 392-2000

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209) 942-0182

Field Office
Visalia, California
TEL: (559) 734-9473
Mobile: (559) 737-2399
FAX: (559) 734-5402

Stockton - Condition Upon Receipt (Attach to COC)

Sample Receipt at STK:

1. Number of ice chests/packages received: 1
2. Were samples received in a chilled condition? Temps: 26.0°C / _____ / _____ / _____
Acceptable is above freezing to 6° C. Also acceptable is received on ice (ROI) for the same day of sampling or received at room temperature (RRT) if sampled within one hour of receipt. Client contact for temperature failures must be documented below. If many packages are received at one time check for tests/H.T.'s/rushes/Bacti's to prioritize further review. Please notify Microbiology personnel immediately of bacti samples received.
3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
5. Were sample custody seals intact? N/A Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): [Signature]

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 6 / _____ / _____ / _____ / _____
Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/Bacti's to prioritize further review. Please notify Microbiology personnel immediately of bacti samples received.
2. Do the number of bottles received agree with the COC? Yes No N/A
3. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
4. Were sample custody seals intact? N/A Yes No

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
4. Were all analyses within holding times at time of receipt? Yes No
5. Have rush or project due dates been checked and accepted? N/A Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): [Signature]

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved

1. Person Contacted: _____

Initiated By: _____

Problem:

Resolution:

(3-2703)

Kleinfeider Inc.

STK0637586

IV-09/06/2005-11:32:48

Analytical Chemists
 September 19, 2006

Kleinfelder Inc.
 2825 East Myrtle Street
 Stockton, CA 95205
 System Number :
 Project Name : Mariposa Lake
 Customer ID : 3-2703
 STRK0637586:2-4 COLIFORM BACTERIA ANALYSIS

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	STRK0637586-002	MW-10	Source-Other	Brian		09/05/2006 12:01	09/05/2006 16:52 JK	2006-09-08 JK
2	STRK0637586-003	MW-11	Source-Other	Brian		09/05/2006 13:00	09/05/2006 16:54 JK	2006-09-09 JK
3	STRK0637586-004	MW-5	Source-Other	Brian		09/05/2006 15:00	09/05/2006 16:50 JK	2006-09-08 JK

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Total	Fecal	Person	Date	Time	Foot Note
1	MW-10	--	--	SM 9221B	MPN/100ml	> 23.0 PRESENT	< 1.1 ABSENT	N/R			
2	MW-11	--	--	SM 9221B	MPN/100ml	6.9 PRESENT	< 1.1 ABSENT	N/R			
3	MW-5	--	--	SM 9221B	MPN/100ml	> 23.0 PRESENT	< 1.1 ABSENT	N/R			

 N/R Not Required
 MPN Most Probable Number
 A/P Absence/Presence

RECEIVED
 SEP 25 2006

KLEINFELDER, INC.

 Field Office
 Visalia, California
 TEL: (559) 734-9473
 Mobile: (559) 737-2399
 FAX: (559) 734-8435

Bacteriological Results Page: 1

 Office & Laboratory
 2500 Stagecoach Road
 Stockton, CA 95215
 TEL: (209) 942-0181
 FAX: (209) 942-0423
 CA ELAP Certification No: 1563

 Corporate Offices & Laboratory
 P.O. Box 272 / 853 Corporation Street
 Santa Paula, CA 93061-0272
 TEL: (805) 392-2000
 FAX: (805) 525-4172
 CA NELAP Certification No. 01110CA

September 19, 2006

STK0637586:2-4 COLIFORM BACTERIA ANALYSIS
Customer ID : 3-2703

Kleinfelder Inc.

The samples listed below had failures for Total and/or Fecal Coliform as listed:

MW-10 Total Coliform - Failure.

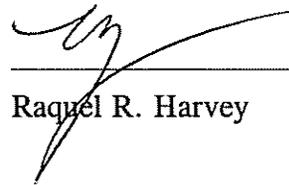
MW-11 Total Coliform - Failure.

MW-5 Total Coliform - Failure.

Treatment: Guidance on well cleanup will be faxed upon requested. Alternatively, we suggest that you contact a qualified well service company

Analyses were performed using Standard Methods 20th edition. If you have any questions regarding your results, please call.

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Raquel R. Harvey

RRH:SMH



ENVIRONMENTAL

Analytical Chemists
September 19, 2006

Kleinfelder Inc.
2825 East Myrtle Street
Stockton, CA 95205

STK0637600:3 COLIFORM BACTERIA ANALYSIS
Customer ID : 3-2703

System Number :
Project Name : Mariposa Lake

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	STK0637600-003	MW-12	Source-Other	Not Available		09/06/2006 08:45	09/06/2006 10:30 CTH	2006-09-09 CTH

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Total	Fecal	Person	Date	Time	Foot Note
1	MW-12	---	---	SM 9221B	MPN/100ml	>23.0 PRESENT	<1.1 ABSENT	N/R			

N/R Not Required. MPN Most Probable Number A/P Absence/Presence

**The samples listed below had failures for Total and/or Fecal Coliform as listed:
MW-12 Total Coliform - Failure.**

Treatment: Guidance on well cleanup will be faxed upon requested. Alternatively, we suggest that you contact a qualified well service company

Analyses were performed using Standard Methods 20th edition. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Raquel R. Harvey

RRH:SMH