

NO FURTHER ACTION REQUEST (NFAR) AND CASE CLOSURE SUMMARY

Tower Mart #182 130 Pleasant Valley Road Diamond Springs, CA 95 Placer County File #00077 RWQCB Case #090096

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EXECUTIVE SUMMARY

The original unauthorized release at this location was discovered in June 1997 when routine product inventory measurements revealed that one of the USTs had lost a significant volume of gasoline. A 4-inch well was promptly installed in the UST pit backfill material to facilitate removal of floating product by vacuum truck. A total of 3,600 gallons of gasoline and water were removed in this manner and another 220 gallons were pumped out two weeks later. A 6-inch thick floating product layer was reduced to just a sheen by pumping from this "tank well" during the first few weeks after the release was discovered.

In November 1999 a site investigation was initiated by installing three soil groundwater monitoring wells in the area surrounding the UST pit. These wells were reported to contain TPH-g at concentrations ranging up to 8,600 μ g/L and MtBE at concentrations up to 89,000 μ g/L. Soil samples collected during the installation of these wells had very low concentrations of TPH-g, BTEX compounds, and MtBE, so it was concluded that the fractured bedrock lithology prevented the accumulation of any significant contaminant mass in the vadose zone.

A sensitive receptor survey performed in December 2000 found only one domestic well and Lake Patterson within the study area. The domestic well was not in use at the time and has subsequently been removed. Lake Patterson, A man-made recreational lake, in not used as a source of potable water and has never been impacted by the release from this Site.

A total of 26 additional monitoring wells and two extraction wells were installed from 2001 to 2004. Extraction well EW-1, located along the edge of the UST pit, was found to contain 31,000 μ g/L MtBE during the initial sampling event in December 2001. A step drawdown test on this well confirmed that it was capable of producing a sustained yield of only 1-2 gallons per minute (gpm), but even at this low flow rate all 12 monitoring wells installed at the time were within its capture zone.

The groundwater remediation program initiated in 2002 began with off-haul of extracted water to a regional treatment facility and progressed to on-site treatment once a discharge permit was obtained from the El Dorado Irrigation District (EID), the agency responsible for the sanitary sewer system. The treatment system was based on ozone oxidation of the extracted groundwater due to the high concentrations of MtBE present.

A second extraction well, EW-2, was installed 200 feet downgradient from EW-1 in 2004. This well produced a sustained yield of 3-4 gpm but had lower concentrations of MtBE, so the system was modified to use aqueous carbon adsorption for groundwater treatment. The EID permit only allowed discharge of pre-approved batches of treated water, so a Report of Waste Discharge (ROWD) was submitted to the RWQCB for evaluation. This ROWD was approved, and RWQCB issued a Notice of Applicability (NOA) permitting discharge in accordance with General Order #R5-2003-0044.

A small soil vapor extraction (SVE) system was installed and operated from July 2005 to December 2008. This system removed vapor-phase COCs from smear zone soils and prevented any potential vapor intrusion into the convenience store, thereby eliminating the need to perform a soil vapor survey.

Additional testing performed during the 1st quarter of 2009 confirmed that no significant contaminant mass remained in the impacted groundwater or surrounding soil, so the remediation system was turned off and and post-remediation monitoring initiated. The USTs were replaced with new, larger double-walled tanks in July 2010. Soil removed from the UST pit to accommodate the larger USTs (actually more rock than soil) contained very low concentrations of TPH-g and MtBE, confirming that no significant contaminant mass remained in the area immediately surrounding the initial release.

The initial response effort removed nearly 4,000 gallons of free product and groundwater from the tank well. The magnitude of the release remaining after this initial response has been estimated at nearly 1,000 pounds of TPH-g and MtBE, of which only 17 pounds were in soil. The total mass of TPH-g and MtBE initially dissolved in groundwater was estimated to be 981 pounds.

Estimates of the current mass of each COC remaining in soil and groundwater are as follows:

10 pounds TPH-g in soil, negligible amounts of BTEX compounds and MtBE in soil; 0.13 pounds TPH-g in groundwater, negligible amounts of BTEX compounds in groundwater and 0.27 pounds MtBE in groundwater.

In summary, the initial release has been remediated and the Site has been determined to be a good candidate for case closure at this time. The lateral and vertical extent of groundwater contamination has been determined by installing and sampling a total of 32 groundwater monitoring and extraction wells. Groundwater remediation has been accomplished using a pump-and-treat program along with a small SVE system over a period of 6 years, reducing the average concentrations of dissolved COCs by more than 99%. A few of the wells still have TPH-g and/or MtBE at concentrations that exceed water quality objectives (WQOs). The concentrations of MtBE these wells are decreasing at a rate that should allow WQOs to be reached in less than 25 years, without any impact to potential sensitive receptors. A Tier 1 Risk Assessment has confirmed that residual soil and groundwater concentrations do not pose a threat to human health or the environment.



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1.0 INTRODUCTION

West & Associates Environmental Engineers, Inc. (W&A) prepared this No Further Action Request (NFAR) report for the Tower Mart #182 (formerly Cheaper! #182) located at 130 Pleasant Valley Road in Diamond Springs, El Dorado County, California (the Site) on behalf of Tower Energy Group and in accordance with the requirements of the El Dorado County Environmental Management Department (EDCEMD) and the Regional Water Quality Control Board, Central Valley Region (RWQCB). This NFAR presents a detailed description and history of the environmental remediation program performed at the Site as described in the Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites, Appendix A, Reports (Central Valley Regional Water Quality Control Board, 2004).

2.0 SITE DESCRIPTION

The Site is located on the southeast corner of Pleasant Valley Road (Highway 49) and Patterson Road in Diamond Springs, California (*Figure 1*). It is currently a Tower Mart gas station owned by Tower Energy Group and operating as Tower Mart #182. The three 12,000-gallon fiberglass USTs that were originally installed in 1982 were replaced in summer of 2010 with new, double-walled 12,000-gallon USTs. The Site also has two dispenser islands, a convenience store, and a large paved area on the triangular northeast section that is frequently used to park large trucks and recreational vehicles. The Site is bounded by vacant land in all directions, including an agricultural "stock pond" to the east and northeast.

Surface elevation at the Site ranges from 1,742 to 1,746 feet above mean sea level (amsl). The Site is located on a gently sloping lot with a gradient to the northeast and occupies 3 acres. *Figure 2* presents the location of the Site in relation to these surface features and the current layout of the Site showing the USTs, dispensers, and the convenience store.

3.0 SITE HISTORY

<u>June 1997</u>

A leak from one of the gasoline tanks was discovered in June 1997 during routine inventory measurement of product levels in the USTs. It is believed that the leak occurred from a small rupture created by repeated use of the dip stick to measure fuel levels, which punctured the tank bottom. The UST pit is surrounded by weathered bedrock, so a large portion of the gasoline release was confined to the UST pit.

A 4-inch diameter well was installed in the backfill material to a depth of 12 feet below ground surface (bgs). Groundwater and gasoline were pumped out of this well using a vacuum truck as soon as the well was completed. Approximately 2,200 gallons were removed from the well on June 24th and another 1,400 gallons on June 26th. The floating free product layer was reduced from 6 inches to less than ½ inch as a result of these two events. Additional pumping of smaller quantities remaining in the well during the first part of July further reduced the floating product layer, so that only a sheen remained after pumping on July 9th. This well, designated the "tank well", remained in place and has been used in assessment and remediation activities for the duration of the program.



November 1999

Parker Environmental Services installed three groundwater monitoring wells around the perimeter of the USTs to evaluate the presence of soil and groundwater contamination underlying the Site. Monitoring wells MW-1 through MW-3 and the tank well were first sampled on November 29, 1999. These wells were reported to contain TPH-g at concentrations ranging up to 9,600 μ g/L and MtBE at concentrations ranging up to 89,000 μ g/L. MW-2 was also found to contain BTEX compounds in excess of water quality objectives (WQOs). Based on this data these analytes were designated the constituents of concern (COCs) for this Site.

Two soil samples were collected from each of the three boreholes. TPH-g was not detected in any of these samples. BTEX was reported in the samples from borehole MW-3 at negligible concentrations (<0.1 mg/kg). MtBE was reported in 4 of the 6 samples at concentrations ranging up to 10 mg/kg, also very low in comparison with the groundwater results. *Table 1* contains the results of these soil samples and all other soil samples analyzed during the remediation program at this Site.

November – December 2000

H₂OGEOL performed a sensitive receptor survey (SRS) to identify all wells, surface water bodies, schools, and other sensitive receptors located within 2,000 feet of the Site's boundaries. The survey reported no water supply wells and only two domestic wells within the study area. These wells were not in use and have subsequently been removed. Surface water bodies included Lake Patterson, a man-made lake used for recreational purposes but not as a source of drinking water, and three stock ponds. No schools or other sensitive receptors were identified in the SRS.

August – December 2001

 H_2OGEOL installed monitoring wells MW-4 through MW-12 to further assess the extent of groundwater contamination surrounding the USTs, piping and dispenser islands. By the August 2001 groundwater monitoring event the concentrations of TPH-g and MtBE in MW-3 reached 86,000 µg/L and 110,000 µg/L, respectively. All of the new wells installed in 2001 had TPH-g and MtBE at concentrations greater than WQOs, with several of them having MtBE between 1,900 µg/L and 13,000 µg/L. The fact that these wells are located around three sides of the UST and dispenser area indicated that the plume was not migrating in a single direction, but rather radiating out in several directions from the source area.

Extraction well EW-1 was also installed in December 2001. This 4-inch well, located between MW-2 and MW-4, had 31,000 μ g/L of MtBE in the December 2001 sampling event.

December 2001 – January 2002

 H_2OGEOL performed a step drawdown test, constant rate test, and capture zone analysis on EW-1 to determine whether this well could provide effective plume control and to establish the optimal long-term rate for groundwater extraction. The data gathered during these tests was used to recommend a flow rate of 1-2 gallons per minute (gpm) during the dry season and 2-3 gpm during the wet season. Even at 1 gpm the potentiometric surface maps showed that all 12 monitoring wells were within the capture zone for EW-1.

February - March 2002

 H_2OGEOL installed six soil borings and four additional monitoring wells more than 100 feet further away from the source area in the primary downgradient direction (SSW to SSE). TPH-g was detected in two of the ten soil samples analyzed, at concentrations ranging up to 2.9 mg/kg. MtBE was detected in several of the soil samples, at concentrations ranging up to 0.9 mg/kg. These soil sample results are included on *Table 1*.

Well MW-23 was reported to contain 4,000 μ g/L TPH-g and 4,600 μ g/L MtBE, confirming that the groundwater plume had traveled across the vacant lot south of the Site and potentially underneath the Lake Oaks Mobile Home Community south of the vacant lot. In addition, H₂OGEOL installed one new monitoring well (MW-20) on the north side of the Site to determine whether the contamination had spread off-site in this direction.

The work plan describing installation of these wells also recommended five new wells to the east of the Site (MW-15 to MW-19) and two new wells to the west of the Site (MW-21 and MW-22), but both adjacent property owners required additional information prior to granting access to their properties. This is why the well numbering was out of sequence at the time MW-13, MW-14, MW-20 and MW-23 were installed.

May – October 2002

Interim remedial action was initiated by installing a submersible pump in EW-1 and extracting groundwater at 1-2 gpm. The extracted groundwater was initially pumped into a 6,000-gallon poly tank and transported off-site to a regional treatment facility while the permit application for discharge of treated groundwater was being processed by the El Dorado Irrigation District (EID).

In October 2002 EID issued Permit No. DC-02-183 for discharge to the sanitary sewer. This permit only allowed batch discharge of the treated groundwater, with approval of analytical results required prior to the discharge of each batch. In order to accommodate the remediation goal of pumping continuously from EW-1 to maintain a cone of depression, two 20,000-gallon holding tanks were mobilized to the site. This provided enough capacity to analyze and discharge the treated groundwater in one tank while filling the other one, thereby permitting continuous extraction while meeting the permit requirements.

The groundwater remediation system selected for this Site was based on using ozone to oxidize MtBE and other petroleum compounds dissolved in groundwater. The system included a five pound per day ozone generator, oxygen concentrator, air compressor, two 6,000-gallon poly tanks to provide enough residence time for the ozone oxidation process, two 1,000-pound carbon vessels for polishing, and associated process control instrumentation.

October – November 2002

 H_2OGEOL installed five additional monitoring wells (MW-24 to MW-28) further to the south to determine whether the groundwater plume extended into the mobile home park. Three of these wells were near the west arm of Patterson Lake, the recreational surface water body that was a potential sensitive receptor. Well MW-19 was also installed on the northeast corner of the property at this time. All of these new wells were clean except for MW-24, which contained 10,000 µg/L MtBE. This well is located nearly 100 feet south of MW-13, but is still a few hundred feet north of the west arm of Patterson Lake.



August - September 2003

After receiving an access agreement from the neighboring property owner, H_2OGEOL installed the remaining four wells in the stock pond to the east of the Site (MW-15 to MW-18). The initial groundwater sample from one of these wells (MW-16) contained 3,600 µg/L of MtBE as well as significant concentrations of TPH-g and BTEX compounds.

August 2004

 H_2OGEOL installed the final three monitoring wells, including MW-21 and MW-22 across Highway 49 to the north of the Site and MW-29 located 100 feet south of MW-23. All three of these wells proved to be clean. A second extraction well, EW-2, was also installed at this time. This well, centered between MW-13 and MW-23, is 200 feet downgradient from EW-1. A step drawdown test and capture zone analysis performed by H_2OGEOL confirmed that this well could exert hydraulic control on the downgradient portion of the groundwater plume, so it was connected to the treatment system. The sustained yield from EW-2 was estimated to be 4 gpm. The piping run from EW-2 included a section that crossed underneath Patterson Street, so an encroachment permit was required for this portion of the work.

September - October 2004

Based on the combined flow rate of 5-6 gpm from EW-1 and EW-2, it was cumbersome to operate a continuous extraction and treatment program while only being able to discharge treated water on a batch basis. The other two options, i.e. converting the EID permit to allow continuous discharge and receiving RWQCB approval for discharge to land, were explored simultaneously. In the end EID refused to modify the treated water discharge permit and insisted that only pre-approved batches could be discharged into the sanitary sewer system.

It was determined that treated groundwater could better be managed by discharging it to land under a permit to be obtained from the RWQCB. W&A prepared a Report of Waste Discharge (ROWD) in accordance with the requirements of Order No. R5-2003-0044, the Region 5 General Order for land disposal of treated groundwater from sites with petroleum fuel pollution. RWQCB issued a Notice of Applicability on September 28, 2004 approving discharge of treated groundwater at this Site. The initial plan, to re-inject this treated water into two upgradient monitoring wells, proved impractical when it was determined that the percolation rate was insufficient to handle the volume of treated water generated. A subsequent plan, involving installation of a percolation trench, was implemented as described below.

July 2005

A small soil vapor extraction (SVE) system was installed to accelerate removal of VOCs from "smear zone" soils. The system was connected to EW-1, EW-2, and the wells immediately surrounding the UST pit (MW-1, MW-2, MW-3 and the tank well). VOCs extracted at a vacuum of 3-5 inches of mercury were initially treated using a catalytic oxidizer. When the concentrations dropped significantly after the first few months of operation, the oxidizer was replaced with two 1,000-pound vapor phase activated carbon vessels.



October 2006

An infiltration gallery (i.e. percolation trench) was installed in the parking lot close to the treatment compound. Underground piping was installed from the treatment compound to the trench and hydraulic capacity testing was performed to confirm that the trench could handle up to 6 gpm on a continuous basis. No groundwater mounding was observed during the first several days of discharge, so the trench was backfilled and the overlying area resurfaced. This trench effectively received all treated groundwater generated for the remainder of the remediation program at this Site.

January 2007

H₂OGEOL responded to a request by the RWQCB for a soil vapor survey with a report that explained why this survey was unnecessary. The rationale was based on the fact that there has never been a significant contaminant mass in soil, the downgradient trailer park structures all have sealed undersides in accordance with ITRC standards, and the SVE system prevents any potential intrusion of VOCs into the convenience store building. The RWQCB reviewed and approved this report, as documented in their letter dated February 6, 2007. In fact the SVE system was kept in operation until December 2008, long after any VOCs were detected in the incoming vapor stream, to make sure that vapor intrusion into the convenience store building was not a legitimate concern.

January – March 2009

Although most of the contaminant mass had been removed by the end of 2008, a few of the groundwater monitoring wells still had significant concentrations of MtBE and/or TPH-g. A test program was performed to see whether high vacuum dual phase extraction (HVDPE) could effectively reduce these residual concentrations to acceptable levels. A mobile HVDPE system was used to test several of the monitoring wells and extraction well EW-1, collecting vapor samples as well as before and after groundwater samples from each well. It was concluded that the remaining contaminant mass in the vicinity of these wells was quite low and that HVDPE, using either a mobile or a fixed system, was not cost effective. The remediation system was turned off at this time and demobilized from the Site a few months later.

<u>July 2010</u>

The single-walled fiberglass USTs originally installed in 1982 were replaced with larger doublewalled tanks meeting all the latest requirements for secondary containment and monitoring. The leaking UST had been repaired and kept in service by the previous Site owner when the release occurred in 1997. During the expansion of the UST pit excavated backfill material and "soil" (actually removed by breaking the fractured bedrock into pieces that could be picked up with an excavator bucket and thumb attachment), was stockpiled, sampled, and found to contain very low concentrations of petroleum hydrocarbons. These results confirmed that no significant contaminant mass remained in the area immediately surrounding the USTs.

August 2010

 H_2 OGEOL destroyed seven monitoring wells, three of which were damaged when the UST pit was expanded. The other four were upgradient or have been clean every time they were sampled.



3.1 Groundwater Monitoring

Groundwater monitoring was performed once in 1999 and 2000; quarterly from the beginning of 2001 to the end of 2006; semi-annually from 2007 to 2009; and once in 2010. The current agreement with EDCEMD is that the wells will only be sampled once every other year, so the next scheduled sampling event is during the first quarter of 2012. These sampling events included sampling of all installed wells through August 2008.

A total of 29 monitoring wells, one "tank well" and two groundwater extraction wells have been installed at the Site since 1999. The sampling program was significantly reduced beginning in February 2009, with only 10 wells being sampled during the 2009 and 2010 events.

In the most recent quarterly monitoring event performed during the 1st quarter of 2010, COC concentrations ranged up to 1,070 μ g/L TPH-g and 615 μ g/L MtBE in MW-3 and MW-10, (respectively). The highest off-site concentrations reported were 138 μ g/L TPH-g and 145 μ g/L MtBE (both in MW-13).

Figure 2 shows the locations of the 29 groundwater monitoring wells, tank well, and 2 extraction wells relative to the site and nearby surface features. *Table 2* presents a summary of groundwater analytical results from all quarterly monitoring events through 2010, including samples collected from all the 32 monitoring and extraction wells described above. Well construction details for all 32 wells are shown on *Table 3*.

3.2 Technical Reports

The reports describing the above-referenced activities are listed on *Table 4*. Copies of the major reports on this list will be provided upon request or are available on GeoTracker.

4.0 SITE GEOLOGY AND HYDROGEOLOGY

4.1 Geology

Near surface soils at the Site ranged from pebbly sandy silts with rock fragments to gravelly sandy clay and clayey silt with shale fragments. Beneath these soils there are slate fractured meta tuff and/or siltstone units of the undifferentiated Jurassic-Triassic meta-volcanic or the upper Jurassic marine sedimentary/meta-sedimentary rocks. Monitoring wells installed with a hollow stem auger have encountered refusal at approximately 30 feet bgs, indicating that fractured bedrock is present this depth.

Copies of the boring logs for monitoring well and remediation well boreholes are included in *Attachment C*.

4.2 Hydrogeology

Hydrologically, the Site is situated in the upper drainage basin of Deadman Creek, upstream along the ridge line between two stream branches that have been impounded behind a dam on the main channel. This dam was installed to form Patterson Lake, a small reservoir around which the Lake Oaks Mobile Community was developed. As a result of this hydrologic setting, the direction and slope of the potentiometric surface derived from wells installed during the site assessment program has demonstrated that the Site is situated on a groundwater divide.



The shallow groundwater beneath the Site ranges from approximately 6 to 20 feet below ground surface (bgs) at elevations from 1,722 to 1,736 feet above mean sea level (amsl). *Figure 3* is a map showing the approximate potentiometric surface for the monitoring wells at the site on February 13, 2010. This map shows the northeasterly groundwater gradient directions beneath the northern portion of the property and southwesterly to southeasterly gradient directions beneath the southern portion of the property that have been observed in all potentiometric surface measurements to date. It is therefore meaningless to report the average gradient and direction of the potentiometric surface for groundwater at this Site.

5.0 SENSITIVE RECEPTOR SURVEY

 H_2OGEOL performed a Sensitive Receptor Survey in late 2000 to determine whether any surface water bodies, municipal wells, domestic (i.e. private) wells, or other sensitive receptors were present within 2,000 feet of the Site. There were two wells found within the 2,000-foot search radius at that time, the closest being cross-gradient and more than 500 feet away. This well was removed in 2006. The other well, located 1,500 feet southwest of the Site, was not in use and has also been removed.

Patterson Lake, a man-made recreational surface water body, is situated downgradient of the southwesterly directed portion of the plume that originated at the Site. The lake has functioned as a hydraulic barrier, reducing the groundwater gradient in its area and slowing the advancement of the plume. This lake is not used as a source of drinking water, but its waters could provide a source of dermal contact or incidental ingestion if impacted by the plume. The three seasonal stock ponds located within the survey area are not considered potential sources of human contact or consumption.

Groundwater as a potential source vapor emanations was addressed in a workplan dated January 26, 2007 indicating that there were no areas that could potentially be impacted to investigate. This was affirmed in the workplan approval letter from the Regional Board dated February 6, 2007.

6.0 SITE CHARACTERIZATION AND GROUNDWATER MONITORING ACTIVITIES

The Site has been fully characterized by a series of assessment activities performed from 1999 to 2010. Soil samples were collected from a total of 10 locations, including the area immediately surrounding the UST pit, at depths above and below the depth to first encountered water (6 to 20 feet bgs). Groundwater samples have been collected from 32 locations, i.e. the 29 monitoring wells, tank well, and 2 extraction wells.

6.1 Soil Sampling Results

Soil sampling was initially performed in conjunction with installation of the first three monitoring wells (MW-1 to MW-3) in November 1999. No detectable TPH-g concentrations and very low BTEX concentrations were reported in the soil samples from all three borings. MtBE was present in several of these soil samples at concentrations ranging up to 10 mg/kg.

Ten soil samples were also collected from several boreholes advanced in the vacant lot south of the Site in February 2002. TPH-g was detected in two of these samples at concentrations ranging up to 2.9 mg/kg. MtBE was reported in several of the samples at low concentrations, ranging up to 0.9 mg/kg.

No other soil samples were analyzed during the course of this site assessment and remediation program. The Site and the surrounding area are on fractured bedrock, so it was evident that this release did not result in a significant contaminant mass being present in the unsaturated zone (as is usually the case). Visual and olfactory examination of the hollow stem auger soil cuttings obtained while installing the monitoring wells confirmed that no significant soil contamination was present in the vadose zone soils.

The leaking UST was repaired (not replaced) when this release was discovered. All three USTs installed in 1982 were replaced with larger USTs in July 2010. Soil "excavated" to expand the UST pit was stockpiled on Site and sampled to determine the best option for disposal. This soil was predominately a fractured bedrock matrix, so it was prepared by breaking up the rock with a hydraulic hammer prior to removal with the excavator bucket. Six samples of the stockpiled "soil" were analyzed to determine the best option for off-site disposal. These samples were reported to contain no detectable concentrations of TPH-g, BTEX compounds or MtBE, up to 6 mg/kg of TPH-d, and up to 14 mg/kg of total lead. The total lead concentrations are typical of background levels in the area.

6.2 Groundwater Monitoring Results

Groundwater underlying and downgradient from the Site has been fully characterized by the various sampling and monitoring activities performed over the last 13 years. The highest groundwater concentrations reported for most analytes were in the August 2001 sample from MW-3, which had 86,000 μ g/L TPH-g and 110,000 μ g/L MtBE. The highest concentrations of benzene and total BTEX compounds were reported in the August 2001 sample from MW-4, at 770 μ g/L and 8,690 μ g/L, respectively.

The concentrations of all COCs in the groundwater monitoring wells were greatly reduced by the first quarter of 2010. In most wells the concentration of MtBE, the primary COC, were 2 to 3 orders of magnitude lower than they were when first sampled. The only well that did not show a declining trend was MW-17, located in the stock pond to the east of the Site. This well had 900 μ g/L MtBE when last sampled in August 2009.

Table 2 presents a summary of groundwater results from all quarterly monitoring events through the first quarter of 2010. The most recent quarterly groundwater monitoring report by H_2OGEOL is available on GeoTracker. All previous quarterly monitoring reports are incorporated by reference.

7.0 **REMEDIATION ACTIVITIES**

The combination of soil vapor extraction (SVE) and groundwater remediation from 2001 to 2009 has effectively removed the contaminant mass and reduced the concentrations of petroleum hydrocarbons remaining in groundwater to concentrations that are approaching Water Quality Objectives (WQOs). The concentrations of COCs in the monitoring wells that do not currently meet WQOs are expected to reach WQOs within 15 to 25 years, without any adverse impacts to sensitive receptors in the meantime.



7.1 Soil Remediation

Active soil remediation performed at this Site consisted primarily of the soil vapor extraction (SVE) performed from 2005 to 2009. A 5-Hp SVE blower removed vapors from the exposed soil column in EW-1 and EW-2 and the vapor stream was treated by carbon adsorption. In addition, contaminated soil in the vicinity of the USTs that were the source of this release was removed by overexcavation when the USTs were replaced during the summer of 2010. Natural attenuation probably reduced the concentrations of COCs in impacted smear zone soils over the years, particularly in areas of low TPH-g concentration that are more amenable to microbial oxidation.

7.2 Groundwater Remediation

The concentrations of COCs in groundwater were reduced between 1997 and 2008 by the initial free product removal effort, operation of the groundwater extraction and treatment system, and to some degree by natural attenuation. By the end of 2008 the SVE and groundwater treatment system operation had reduced the concentrations of COCs in monitoring and extraction wells at the Site by an average of more than 99%. The only COCs present in any well at concentrations greater than WQOs were TPH-g and MtBE.

As shown graphically on the attached *Figure MW-1 through Figure EW-2*, taken from the most recent H_2OGEOL groundwater monitoring report, the concentrations of MtBE in the wells not currently meeting WQOs show a clear declining trend in all wells except MW-17. Based on a regression analysis of the data, these wells are expected to reach WQOs within 15 to 25 years.

8.0 CONTAMINANT MASS EVALUATION

The amount of product lost from the UST as a result of this release is estimated to be a few thousand gallons. Most of this was recovered during the first few weeks after the release by vacuum truck extraction of free product from the tank well. The contaminant mass present after this initial response but prior to soil and groundwater remediation is estimated as follows:

Mass in Soil – TPH-g

The original volume of contaminated soil is estimated by assuming an affected area of 9,000 square feet, 5 feet thick.

Soil Volume = (9,000 SF x 5 ft thick) / (27 CF/CY) ≈ 1,667 CY

Soil Mass = 1,667 CY x 2,700 lb/CY = 4,500,000 lb ≈ 2,045,000 kg of soil

The 6 soil samples collected from the MW-1, MW-2 and MW-3 boreholes were all MD < 1 mg/kg TPH-g, so a "worst case" assumption is that the average TPH-g concentration in impacted soil = 1 mg/kg

Mass of TPH-g = 2,045,000 kg x 1 mg/kg x 10^{-3} = 2,045 g \approx 4.51 lb \approx 0.5 gallons

Mass in Soil – Benzene

Soil Mass = 2,045,000 kg (as calculated above)

Average Benzene concentration = (0.005 x 4 + 0.015 + 0.022) / 6 ~ 0.01 mg/kg

Mass of Benzene = 2,045,000 kg x 0.01 mg/kg x $10^{-3} \approx 20.5$ g ≈ 0.045 lb ≈ 0.007 gallons

Mass in Soil - MtBE

Soil Mass = 2,045,000 kg (as calculated above)

Average MtBE concentration = (0.05*2 + 0.23 + 0.27 + 2.3 + 10) / 6 ≈ 2.82 mg/kg

Mass of MtBE = 2,045,000 kg x 2.82 mg/kg x $10^{-3} \approx 5,760$ g ≈ 12.7 lb ≈ 1.95 gallons

Mass in Groundwater – TPH-g

The contaminant mass in groundwater prior to soil and groundwater remediation is very difficult to calculate. A "worst-case" assumption would be as follows:

Estimate the volume of groundwater in the aquifer, assuming an affected area of 50,000 SF x 8 ft thick = 400,000 CF and a porosity of 20%.

Groundwater Volume = 400,000 CF x 0.2 = 80,000 CF x 7.48 gallons/CF = 598,400 gallons

Maximum TPH-g Concentration in Groundwater = $86,000 \mu g/L = 86 mg/L$

Mass of TPH-g = 598,400 gallons x 3.78 L/gallon x 86 mg/L x 10^{-3} g/mg \approx 194,528 g

194,528 g ≈ 428.9 lb ≈ 66.0 gallons

Mass in Groundwater – Benzene

Groundwater Volume = 598,400 gallons (as calculated above)

Maximum Benzene Concentration in Groundwater = 770 μ g/L = 0.77 mg/L

Mass of TPH-g = 598,400 gallons x 3.78 L/gallon x 0.77 mg/L x 10^{-3} g/mg \approx 1,742 g

1,742 g ≈ 3.84 lb ≈ 0.59 gallons

Mass in Groundwater – MtBE

Groundwater Volume = 598,400 gallons (as calculated above)

Maximum MtBE Concentration in Groundwater = 110,000 μ g/L = 110 mg/L

Mass of MtBE = 598,400 gallons x 3.78 L/gallon x 110 mg/L x 10^{-3} g/mg = 248,814 g

248,814 g ≈ 548.5 lb ≈ 84.4 gallons

The estimate of total contaminant mass released from the USTs at this Site, based on these calculations, is as follows:

Mass adsorbed in soil:	17 lb
Mass dissolved in groundwater:	981 lb

Total Mass: 998 lb ≈ 154 gallons (TPH-g + MtBE)

The contaminant mass remaining after soil and groundwater remediation is very difficult to estimate. Based on "worst case" assumptions, residual contaminant mass is estimated as follows:

Residual Mass in Soil

Soil mass = 2,045,000 kg (as calculated above)

TPH-g = (0.025 mg/kg) x 2,045,000 kg) x 10^{-3} = 51.12 g \approx 0.11 lb \approx 0.017 gallons

Benzene = $(0.005 \text{ mg/kg}) \times (2,045,000 \text{ kg}) \times 10^{-3} = 10.22 \text{ g} \approx 0.022 \text{ lb} \approx 0.003 \text{ gallons}$

MtBE = (0.5 mg/kg) x (2,045,000 kg) x 10^{-3} = 102.24 g \approx 0.22 lb \approx 0.034 gallons

Residual Mass in Groundwater

For groundwater calculations assume an 8-foot thick aquifer and 20% porosity.

Groundwater volume = $(180 \text{ Ft}) \times (120 \text{ Ft}) \times (8 \text{ Ft}) \times (0.20) = 43,200 \text{ CF}$ of water (43,200 CF) x (7.48 gallons/CF) = 323,136 gallons of groundwater

Residual TPH-g Concentration in Groundwater = $50 \mu g/L = 0.05 mg/L$

Mass of TPH-g = 323,136 gallons x 3.78 L/gallon x 0.05 mg/L x 10^{-3} g/mg \approx 61.1 g

61.1 g ≈ 0.13 lb ≈ 0.02 gallons

Mass in Groundwater – Benzene

Groundwater Volume = 323,136 gallons (as calculated above)

Residual Benzene Concentration in Groundwater = $5 \mu g/L = 0.005 mg/L$

Mass of TPH-g = 323,136 gallons x 3.78 L/gallon x 0.005 mg/L x 10^{-3} g/mg \approx 6.11 g

6.11 g \approx 0.013 lb \approx 0.002 gallons

Mass in Groundwater – MtBE

Groundwater Volume = 323,136 gallons (as calculated above)

Average Residual MtBE Concentration in Groundwater = $100 \mu g/L = 0.1 mg/L$

Mass of MtBE = 323,136 gallons x 3.78 L/gallon x 0.1 mg/L x 10^{-3} g/mg \approx 122 g

122 g \approx 0.27 lb \approx 0.04 gallons

The estimate of total residual mass remaining after soil and groundwater remediation is as follows:

Total Mass:	0.74 lb ≈ 0.11 gallons
Mass remaining in groundwater:	<u>0.40 lb</u>
Mass remaining in soil:	0.33 lb

9.0 TIER 1 RISK ASSESSMENT

A Tier 1 Risk Assessment was performed by comparing available soil and groundwater data with the Environmental Screening Levels (ESLs) published in the San Francisco Bay Area RWQCB document titled "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater" (May 2008 edition). No soil samples have been analyzed at this Site since 2002. During the installation of monitoring wells MW-1 through MW-3 in 1998 soil samples were collected from these three boreholes. Additional soil samples were analyzed in 2002 during the installation of monitoring wells MW-13, MW-20 and MW-23. The highest concentrations of COCs reported in these soil samples were 10 mg/kg (10,000 μ g/kg) of MtBE and 2.9 mg/kg (2,900 μ g/kg) of TPH-g at depths of more than 10 feet bgs.

The ESL for TPH-g in soil at a commercial site where groundwater could be used as a resource, as shown on *Table C-2* of the screening document, is 83 mg/kg (i.e. 83,000 μ g/kg). The highest concentration of TPH-g ever reported in soil is 2.9 mg/kg, substantially lower than this ESL.



Table C-2 lists the ESL for MtBE as 23 μ g/kg, the value listed in the column for Groundwater Protection (Soil Leaching). This is not a relevant concern at this Site, however, because of the extensive groundwater assessment and remediation program already completed. The column for Direct Exposure lists an ESL of 1,000mg/kg (1,000,000 μ g/kg), which is 100 times greater than the highest value reported. It is concluded that residual COC concentrations in soil, therefore, do not present a credible risk to human health in terms of potential inhalation or dermal exposure.

With regard to potential exposure pathways from residual groundwater contamination, *Table E-1* in the referenced screening document is titled "Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion Concerns". This table lists ESLs for volatile organic compounds present in gasoline (notably BTEX compounds and MtBE) that are much greater than the concentrations reported in any of the wells during the 2009 and 2010 monitoring events. In particular, the ESL of 80,000 μ g/l for MtBE is higher than any concentration reported at the Site since 2001 and at least 100 times greater than the highest concentration reported in 2010. It is logical to conclude, therefore, that the potential for direct or indoor air exposure from residual groundwater contamination is not a viable concern and that a soil vapor survey is not necessary.

10.0 CONCLUSIONS AND RECOMMENDATIONS

The Site has been fully characterized by a series of assessment activities performed from 1997 to 2010. Soil samples have been collected from a total of 10 locations at depths above and below first encountered water. Groundwater samples have been collected on multiple occasions from the 29 monitoring wells and 2 extraction wells installed during this assessment and remediation program.

Active remediation using groundwater extraction and treatment in conjunction with some soil vapor extraction (SVE) has effectively reduced the concentrations of TPH-g and MtBE to levels that are at or will attain WQOs in all of the 29 monitoring wells, the tank well, and the two extraction wells. Trend analysis shows that WQOs are likely to be reached in all wells within 15 to 25 years, before impacted groundwater would reach any nearby downgradient sensitive receptors.

A Tier 1 Risk assessment has determined that residual concentrations of COCs at this Site do not pose a threat to human health in terms of potential inhalation or dermal exposure.

Based on these facts and the documentation provided with this NFAR, W&A recommends that the RWQCB issue a No Further Action Letter for this Site.

ATTACHMENT A

Figures
















































ATTACHMENT B

Tables

TABLE 1SOIL RESULTSTower Mart #182, 130 Pleasant Valley Rd, Diamond SpringsFebruary 17, 2010

WELL ID	DATE SAMPLED	TPH (GAS)	МТВЕ	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES
MW-1/20	11/4/98	ND	0.23	ND	ND	ND	ND
MW-1/25	11/4/98	ND	ND	ND	ND	ND	ND
MW-2/20	11/4/98	ND	10	ND	ND	ND	ND
MW-2/25	11/4/98	ND	0.27	ND	ND	ND	ND
MW-3/5	11/4/98	ND	ND	0.022	0.092	0.011	0.086
MW-3/10	11/4/98	ND	2.3	0.015	0.013	0.017	0.049
MW-13 (9 ft)	2/11/02	2900	27	<5	<5	<5	<5
MW-13 (10.5 ft)	2/11/02	<1000	36	<5	<5	<5	<5
SSB4 (14.5 ft)	2/18/02	<1000	220	<5	<5	<5	7.0
SSB4 (22.5 ft)	2/18/02	<1000	200	<5	<5	<5	<5
SSB22 (10 ft)	2/18/02	<1000	170	<5	<5	<5	<5
SSB22 (12.5 ft)	2/18/02	<1000	490	<5	<5	12	24
SSB22A (10.5 ft)	2/18/02	1700	900	<5	<5	10	15
SSB22A (12.5 ft)	2/18/02	<1000	<5	<5	<5	<5	<5
SSB22B (10.5 ft)	2/18/02	<1000	<5	<5	<5	<5	<5
SSB23 (14.5 ft)	2/18/02	<1000	150	<5	<5	<5	<5

All Hydrocarbon Values in ug/l (PPB)

ABBREVIATIONS

TPH: Total Petroleum Hydrocarbons *ug/I*: Micrograms per Liter *ND*: None Detectable *MtBE*: Methyl tert butyl ether

Table 2 SUMMARY GROUNDWATER ANALYTICAL RESULTS FORMER CHEAPER! #182 130 PLEASANT VALLEY ROAD DIAMOND SPRINGS, CALIFORNIA

(water analyte concentrations in micrograms per liter)

	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
MW-1 11/29/99	~ 700	- 2	- 2	64	96	24000	~ 2500	~ 500	~ 500	~ 500			
10/10/00 02/16/01 05/17/01	< 500 3700 13000	< 0.6 < 13 < 50	3.9 < 13 < 50	< 0.4 < 0.61 < 13 < 50	5.0< 1.1110< 50	17000 21000 25000	< 2500 < 2500 < 5000 1100	< 500 < 500 <10000 < 2000	< 500 < 500 < 5000 < 1000	< 500 < 500 < 5000 < 1000			
08/13/01	22000	< 100	< 100	< 100	< 100	26000	Not ar	nalyzed d	ue to hig "	h detecti	on limits		
03/26/02	< 10000 3300	< 100	< 25	< 25	< 25	4400							
06/25/02	18000	< 130	< 130	< 130	< 130	34000			"				
09/21/02	13000	< 130	< 130	< 130	< 250	19000							
12/22/02	7900 15000	< 25	< 25	< 25	< 25	20000							
06/24/03	14000	< 130	< 130	< 130	< 130	18000			"				
09/23/03	< 10000	< 100	< 100	< 100	< 200	14000			"				
12/08/03	< 10000	< 100	< 100	< 100	< 200	10000			"				
02/16/04	10000	< 100	< 100	< 100	< 200	10000							
08/30/04	6500	< 50	< 50	< 50	< 50	7400			"				
12/03/04	< 5000	< 50	< 50	< 50	< 50	5000			"				
03/01/05	5300	< 50	< 50	< 50	< 50	5800							
05/28/05	630 91 3	< 0.5	< 0.5	0.9 1.2	1.6 1.7	4270 648							
12/08/05	< 500	< 5.0	< 5.0	< 5.0	< 10.0	53.8	876	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
03/27/06	160	1.0	1.5	7.1	16	4.3	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
05/25/06	100	0.31	0.53	2.2	7.1	20	1800	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
11/08/06	< 250 < 50	< 2.5 < 10	< 2.5 < 10	< 2.5 < 10	< 5.0 < 10	43 29	2200	< 5.0 < 10	< 2.5 < 10	< 2.5 < 10	< 2.5 < 10	< 2.5 < 10	< 1000
02/16/07	< 500	< 5	< 5	< 5	< 10	< 5	3000	< 10	< 5	< 5	< 5	< 5	
09/02/07	75	< 0.50	0.91	1.3	2.3	38	510	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/17/08	< 500	< 0.50	< 0.50	1.1	1.4	8.0	3100	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/03/08	Sample	annuali	y in Aug		-ebruary	27, 2009 let 7 4	ter. 2200	< 25	< 25	< 25	< 25	< 25	
08/22/09	< 50	< 0.60	< 1.0	< 0.60	< 1.4	5.0	804	< 1.0	< 1.0	< 1.0	< 0.60	< 0.40	
11/29/99	9600	75	33	330	360	44000	< 5000	< 1000	< 1000	< 1000			
10/10/00	2200	46	20	73	29	45000	< 2500	< 500	< 500	550			
02/16/01	6900	< 25	< 25	< 25	< 25	47000	5400	< 5000	< 2500	< 2500			
05/17/01	21000	< 50	< 50	< 50	< 50	45000	< 2500	< 5000	< 2500	< 2500	on limito		
08/13/01	38000	< 100	< 100	< 100	< 100 290	51000 19000	Not ar	nalyzed d	ue to nig "	n detecti	on limits		
03/26/02	19000	< 100	< 100	< 100	< 100	34000			"				
06/27/02	22000	< 100	< 100	< 100	< 100	39000			"				
09/21/02	14000	< 100	< 100	< 100	< 200	18000			"				
12/22/02	21000	< 100	< 100	< 100	< 100	20000							
03/30/03	24000	< 100 < 100	< 100	< 100 < 100	< 100 < 100	25000							
09/23/03	< 20000	< 200	< 200	< 200	< 400	29000			"				
12/08/03	< 20000	< 200	< 200	< 200	< 400	28000			"				
02/16/04	36000	< 250	< 250	< 250	< 500	37000			"				
05/21/04	18000	< 130	< 130	< 130	< 130	21000							
12/03/04	< 13000	< 130	< 130	< 130	< 130	13000							

MW-2, continu	д TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)		tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
03/01/05	13000	< 130	< 130	< 130	< 130	15000				"				
05/28/05	1020	< 0.5	< 0.5	3.3	4.9	14100				"				
09/07/05	284	< 0.5	< 0.5	1.3	1.8	1710		0770	. 10.0	. 10.0	04.0	. 10.0	10.0	
12/08/05	1200	< 10.0	< 10.0	< 10.0	< 20.0	1910 500		2770	< 10.0	< 10.0	24.0	< 10.0	< 10.0	< 250
05/26/06	900 720	< 2.5	2.0	< 2.5	< 5.0	1200		7400	< 0.50	< 2.5	0.0 16	< 0.50	< 0.50	< 100
08/17/06	< 1000	< 10.0	< 10.0	< 10.0	< 20.0	1200		9900	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	100
11/10/06	150	< 50	< 50	< 50	< 50	220		8300	< 50	< 50	< 50	< 50	< 50	< 5000
02/16/07	< 1000	< 10	< 10	< 10	< 20	94		9000	< 20	< 10	< 10	< 10	< 10	
09/02/07	1000	< 1.0	1.3	24	9.0	164		970	< 2.0	< 1.0	3.5	< 1.0	< 1.0	
02/17/08	530	< 1.0	< 1.0	7.8	3.5	120		2400	< 2.0	< 1.0	1.8	< 1.0	< 1.0	
08/03/08	Sample	d annuall	y in Aug	ust per F	ebruary 2	7, 2009 lette	er.	1200	< 20	< 20	< 20	< 20	- 20	
08/22/09	020 449	< 2.0	< 2.0	24	< 4.0	35.8		1200	< 20	< 20	< 20	< 2.0	< 2.0	
00/22/03		< 1.0	< 2.5	2.7	< 0.0	00.0		1000	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	
MW-3														
11/29/99	< 2600	< 10	< 10	< 10	24	89000		20000	< 2500	< 2500	< 2500			
10/10/00	2900	< 2.5	19	< 3.9	< 10	89000	<	13000	< 2500	< 2500	< 2500			
02/10/01	4000	< 50	< 50	< 50	< 50	75000		7400 5800	< 10000	< 2500	< 2500			
08/13/01	86000	< 250	< 250	< 250	< 250	110000		Not an	alvzed d	ve to hia	h detecti	on limits		
11/19/01	45000	< 250	< 250	< 250	< 250	66000				" «				
03/26/02	40000	< 250	< 250	< 250	< 250	70000				"				
06/27/02	44000	< 250	< 250	< 250	< 250	63000				"				
09/21/02	34000	< 250	< 250	< 250	< 500	42000				"				
12/22/02	47000	< 250	< 250	< 250	< 250	49000				"				
03/30/03	40000	< 250	< 250	350	750	44000				"				
06/24/03	46000	< 250	< 250	440	1200	40000								
09/23/03	27000	< 250	< 250	1500	3300	59000								
02/16/04	< 50000	< 500	< 500	< 500	< 1000	51000				"				
05/20/04	27000	< 250	< 250	< 250	< 250	29000				"				
08/30/04	29000	< 250	< 250	< 250	< 250	32000				"				
12/03/04	< 25000	< 250	< 250	< 250	< 250	25000				"				
03/01/05	28000	< 250	< 250	< 250	< 250	30000				"				
05/28/05	8600	< 10	< 10	33.2	52.5	23200				"				
09/07/05	569	< 0.5	< 0.5	< 0.5	< 1.0	13400								
12/08/05	1250	< 0.5	6.0	11.6	31.4	13400								
03/27/06	< 10000 560	< 100	< 100	< 100	< 100	0000		2000	~ 0.50	12	80	~ 0.50	< 0.50	~ 100
08/17/06	< 2500	< 25	< 25	< 25	< 50	3700		3300	< 50	< 25	< 25	< 25	< 25	< 100
11/10/06	< 100	< 50	< 50	< 50	< 50	2000		7800	< 50	< 50	< 50	< 50	< 50	< 5000
02/16/07	< 2500	< 25	< 25	< 25	< 50	1600		6800	< 50	< 25	< 25	< 25	< 25	
09/02/07	430	< 2.5	< 2.5	3.0	< 5.0	220		2900	< 5.0	< 2.5	3.8	< 2.5	< 2.5	
02/17/08	2400	< 2.5	< 2.5	14	6.1	3500		5800	< 5.0	< 2.5	41	< 2.5	< 2.5	
08/03/08	750	< 5.0	< 5.0	11	< 10	860		2800	< 50	< 50	< 50	< 5.0	< 5.0	
/ /	Sampled	annually	in Febru	ary per F	ebruary 27	7, 2009 lette	er.							
02/21/09	1810	< 6.0	< 10	< 6.0	35.6	1750		7550	< 10	< 10	< 10	< 6.0	< 4.0	
02/13/10	1070	< 3.0	< 5.0	38.1	27.2	//.6		4780	< 5.0	< 5.0	< 5.0	< 3.0	< 2.0	
MW-4														
08/28/01	30000	770	3200	820	3900	9500	<	500	< 1000	< 500	< 500	< 100	< 100	
11/19/01	20000	550	1500	830	2900	4800		Not an	alyzed d	ue to hig	h detecti	on limits		
03/26/02	16000	400	1100	550	2200	5300			-	"				
06/27/02	8400	94	340	280	1000	1800				"				

MW 4 continu	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
09/20/02	0200	82	300	270	860	1100			"				
12/22/02	4100	51	140	90	250	1300							
03/29/03	6400	71	69	160	380	2600							
06/23/03	7600	62	62	150	370	3400			"				
09/25/03	6700	72	99	210	480	1800			"				
12/08/03	11000	200	490	360	820	5100							
02/16/04	21000	220	530	690	1800	3600			"				
05/21/04	14000	190	130	500	1000	6500			"				
08/30/04	13000	370	410	650	1500	4700							
12/02/04	17000	210	110	750	1500	2900							
03/03/05	7600	89	61	320	840	980			"				
05/27/05	17900	110	72.7	636	1633	2040			"				
09/01/05	29200	138	144	1100	2893	2550	< 500	< 50.0	< 50.0	67.3			
12/08/05	27300	195	158	1060	3455	3590	< 500	< 50.0	< 50.0	95.4	< 50.0	< 50.0	
03/24/06	2500	1.0	0.72	45	180	22	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
05/24/06	2600	7.8	2.9	110	180	200	< 100	< 5.0	< 5.0	5.2	< 5.0	< 5.0	< 100
08/16/06	9100	19	< 13	260	370	330	< 130	< 25	< 13	< 13	< 13	< 13	
11/10/06	6500	28	< 10	270	370	640	180	< 10	< 10	14	< 10	< 10	< 1000
02/15/07	1500	2.0	< 1.1	19	22	63	34	< 2.0	< 1.0	2.2	< 1.0	< 1.0	
09/02/07	8300	15	10	240	310	350	180	< 2.0	< 1.0	12	< 1.0	< 1.0	
02/17/08	910 Samala	< 1.0 d annuall	< 1.0	2.7	< 2.0	1.4 7 2000 lei	< 10	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	
08/02/08	Sample	d annuali	y in Aug	ust per F	ebruary 2	7, 2009 le	tter.	. 50	. 50	. 50			
08/02/08	5900 100	< 0.0	< 0.50	150	140	190	170	< 0.50	< 0.50	< 00	< 0.20	< 0.0	
00/22/09	199	< 0.50	< 0.50	0.1	2.0	19.9	00.0	< 0.50	< 0.50	0.54	< 0.50	< 0.20	
MW-5													
12/09/01	< 2500	< 50	< 50	< 50	< 50	1900	Not an	alyzed d	ue to hig	h detecti	on limits		
03/25/02	1400	33	49	< 5.0	< 5.0	1500			"				
06/27/02	760	< 5.0	< 5.0	< 5.0	< 5.0	1100							
09/20/02	5700	64	< 25	60	95	4400							
12/22/02	4200	30	< 13	48	25	3100			"				
03/30/03	1800	< 13	< 13	< 13	< 13	1800			"				
06/24/03	1100	< 5.0	< 5.0	< 5.0	< 5.0	990							
09/25/03	< 1300	< 13	< 13	< 13	27	2700							
12/08/03	3800	< 25	31	< 25	57	5300							
02/16/04	< 2000	< 20	< 20	33	71	1800							
05/21/04	1100	< 10	< 10	< 10	< 10	1100							
08/30/04	< 1000	< 10	< 10	< 10	< 10	810							
12/02/04	1200 54	< 10	< 10	< 10	< 10	000 22							
05/03/05	< 500	< 5.0	< 5.0	- 5 0	1.0	201	~ 50.0	< 5.0	< 5.0	< 5.0			
09/01/05	< 500	< 5.0	< 5.0	< 5.0	< 10	316	< 50.0	< 5.0	< 5.0	< 5.0			
12/07/05	< 500	< 5.0	< 0.0 5 7	< 5.0	< 100	402	223	< 5.0	< 5.0	< 5.0	< 50	< 50	
03/24/06	< 50	< 0.50	0.76	< 0.50	< 10.0	62	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
05/24/06	77	< 0.50	0.28	0.25	< 1.0	100	< 10	< 0.50	< 0.50	< 0.37	< 0.50	< 0.50	< 100
08/16/06	330	< 2.5	< 2.5	< 2.5	< 5.0	360	49	< 5.0	< 2.5	7.3	< 2.5	< 2.5	
11/10/06	380	< 50	< 50	< 50	< 50	1600	730	< 50	< 50	< 50	< 50	< 50	< 5000
02/15/07	< 500	< 5.0	< 5.0	< 5.0	< 10	580	230	< 10	< 5.0	< 5.0	< 5.0	< 5.0	
09/02/07	< 500	< 5.0	< 5.0	6.5	< 10	480	160	< 10	< 5.0	11	< 5.0	< 5.0	
02/17/08	50	< 0.50	< 0.50	< 0.50	< 1.0	140	110	< 1.0	< 0.50	1.7	< 0.50	< 0.50	
	Sample	d annuall	y in Aug	ust per F	ebruary 2	7, 2009 le	tter.						
08/02/08	120	< 1.0	< 1.0	< 1.0	< 2.0	180	< 20	< 10	< 10	< 10	< 1.0	< 1.0	
08/22/09	74.9	< 0.30	< 0.50	< 0.30	< 0.70	64.9	53.2	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	

MW-6	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
12/09/01	< 25000	< 500	500	< 500	1900	13000	Not an	alyzed d	ue to hig	h detecti	on limits		
03/26/02	25000	230	810	570	2200	17000			"				
06/27/02	23000	130	1000	650	2800	9500							
12/22/02	19000	110	530 280	470	1400	5600							
03/30/03	21000	180	400	430	1300	9200 15000							
06/24/03	31000	260	530	530	1900	16000							
09/23/03	17000	150	260	460	1500	14000							
12/08/03	24000	190	470	530	1600	24000			"				
02/16/04	23000	190	330	580	1500	16000			"				
05/21/04	20000	190	230	560	1000	12000							
08/30/04	16000	< 130	< 130	300	650	5100							
12/02/04	23000	270	< 130	540 220	980 710	9500 5800							
05/28/05	9650	< 130 65.5	62.4	230	469	6370			"				
09/04/05	5350	272	91.6	594	< 100	7640							
12/08/05	14600	249	433	525	1460	12700							
03/27/06	19000	< 100	< 100	280	600	6900			"				
05/25/06	10000	55	34	170	620	4200	910	< 5.0	< 5.0	57	< 5.0	< 5.0	< 1000
08/17/06	13000	47	44	250	480	3100	1200	< 25	< 13	60	< 13	< 13	5000
02/16/07	2000 4900	< 50	< 50	68	88 110	900 1900	< 500 730	< 50	< 50 13	< 50 ~ 13	< 50 ~ 13	< 50 ~ 13	< 5000
09/02/07	7300	< 13	< 13	85	65	1200	660	< 25	< 13	31	< 13	< 13	
02/17/08	2200	16	< 13	37	36	1900	390	< 25	< 13	33	< 13	< 13	
08/03/08	4000	< 5.0	< 5.0	41	28	850	780	< 50	< 50	< 50	< 5.0	< 5.0	
	Sampled a	annually	in Febru	ary per F	ebruary 27	7, 2009 let	ter.						
02/21/09	2460	5.7	< 5.0	8.7	34.4	728	222	< 5.0	< 5.0	9.2	< 3.0	< 2.0	
02/13/10	< 20	< 0.30	< 0.50	< 0.30	< 0.70	5.9	0.9	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	
MW-7	- 250	. 5 0	. 5.0	. 5 0	. 5.0	120	Not on		uo to hig	h dataati	on limito		
03/25/02	< 230 190	< 5.0 32	< 5.0 47	< 5.0 4.6	23	29	NUL all	aiyzeu u	ue to nig	n delecti	011 11111115		
06/25/02	260	28	67	7.0	36	25			"				
09/20/02	< 50	< 0.50	0.89	< 0.50	1.7	31	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/21/02	< 500	28	49	8.3	26	660	160	< 10	< 5.0	13	< 5.0	< 5.0	
03/29/03	< 100	7.2	17	3.4	11	200	58	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/23/03	< 250	< 2.5	< 2.5	< 2.5	< 2.5	210	< 25	< 5.0	< 2.5	3.0	< 2.5	< 2.5	
09/25/03	420	< 2.5	< 2.5	4.6	10 2.6	320 87	< 25	< 5.0	< 2.5	5.3	< 2.5	< 2.5	
02/15/04	56	< 0.50	0.89	< 0.50	1.4	42	< 5.0	< 1.0	< 0.50	1.0	< 0.50	< 0.50	
05/20/04	< 50	< 0.50	0.89	< 0.50	< 1.0	5.1	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/30/04	< 50	0.74	< 0.50	1.1	3.3	26	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/02/04	150	< 0.50	1.0	5.2	14	44	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/02/05	50	< 0.50	< 0.50	0.62	1.6	6.2	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/26/05	< 50	< 0.5	< 0.5	< 0.5	< 1.5	5.0	< 5.0	< 0.5	< 0.5	< 0.5			
09/07/05	< 50	< 0.5	< 0.5	0.6	< 1.0	15.9	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
03/24/06	< 50	0.50	0.59	< 0.50	4.1	9.4 3.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
05/26/06	17	< 0.50	< 0.50	< 0.50	< 1.0	4.9	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
08/17/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	19	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
11/08/06	< 50	< 0.5	0.76	< 0.5	< 0.5	37	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
02/16/07	53	< 0.50	< 0.50	< 0.50	1.1	39	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/02/07	< 50	< 0.50	< 1.4	< 1.3	2.5	25	< 5.0	< 1.0	< 0.50	0.60	< 0.50	< 0.50	
02/17/08	< 50 Somplar	< 0.50	< 0.50	< 0.50	< 1.0	1.1 7 2000 lot	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/03/08	3ampie0 49	annuall 2 A N	y III Aug 0.53	usi per F 2 6	6 2	, ∠009 iet 35	ري. < 10	< 5.0	< 50	< 50	< 0.50	< 0.50	
08/22/09	< 25	< 0.30	< 0.50	< 0.30	< 0.70	11.2	< 5.0	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	

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	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
MW-8	0500					1000	NI-1						
12/09/01	< 2500	< 50	< 50	< 50	< 50	1900	Not an	halyzed d	ue to hig	h detecti	on limits		
03/25/02	620	12	22	< 2.5	< 2.5	620							
06/25/02	510	21	53	6.3	30	500							
09/20/02	1100	< 10	< 10	< 10	< 20	1500							
12/22/02	1000	< 5.0	< 5.0	< 5.0	< 5.0	1200							
03/29/03	540	< 5.0	12	< 5.0	< 5.0	490	= 0	4.0					
06/23/03	< 500	< 5.0	< 5.0	< 5.0	< 10	490	< 50	< 10	< 5.0	6.2	< 5.0	< 5.0	
09/25/03	710	< 5.0	< 5.0	< 5.0	< 10	1100	< 50	< 10	< 5.0	13	< 5.0	< 5.0	
12/07/03	2000	< 13	< 13	< 13	< 25	2400	< 130	< 25	< 13	< 13	< 13	< 13	
02/15/04	1300	< 10	< 10	< 10	24	1200	< 100	< 20	< 10	22			
05/21/04	750	< 5.0	< 5.0	8.0	19	550	< 50	< 10	< 5.0	6.2	< 5.0	< 5.0	
08/28/04	1100	< 5.0	< 5.0	< 5.0	< 10	1600	< 50	< 10	< 5.0	27	< 5.0	< 5.0	
12/03/04	1800	< 10	< 10	< 10	< 20	2700	< 100	< 20	< 10	38	< 10	< 10	
03/02/05	< 500	< 5.0	< 5.0	< 5.0	< 10	560	< 50	< 10	< 5.0	6.2	< 5.0	< 5.0	
05/27/05	< 500	< 5.0	< 5.0	< 5.0	< 15	478	< 50	< 5.0	< 5.0	5.5			
09/07/05	970	< 0.5	< 0.5	0.6	< 1.0	2600	< 5.0	< 0.5	< 0.5	25.2			
12/07/05	< 5000	< 50.0	< 50.0	< 50.0	< 100	3460	5460	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	
03/24/06	460	< 2.5	< 2.5	< 2.5	< 5.0	420	< 25	< 2.5	< 2.5	4.8	< 2.5	< 2.5	< 250
05/26/06	200	< 0.50	0.29	0.55	0.75	320	13	< 0.50	< 0.50	3.4	< 0.50	< 0.50	81
08/17/06	1200	< 10	< 10	< 10	< 20	1200	110	< 20	< 10	24	< 10	< 10	
11/08/06	< 50	< 5.0	< 5.0	< 5.0	< 5.0	440	76	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50
02/16/07	< 50	< 0.50	0.70	< 0.50	< 1.0	95	< 5.0	< 1.0	< 0.5	1.6	< 0.50	< 0.50	
09/02/07	< 50	< 0.50	1.4	1.5	2.9	35	< 5.0	< 1.0	< 0.50	0.69	< 0.50	< 0.50	
02/17/08	< 50	< 0.50	< 0.50	< 0.50	< 1.0	12	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/03/08	30	< 0.50	< 0.50	2.2	5.1	11	< 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
	Sampled	annually	in Febru	ary per F	ebruary 2	27, 2009 lett	er.						
08/21/09	< 25	< 0.30	< 0.50	< 0.30	< 0.70	11.8	< 5.0	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	
02/13/10	< 25	< 0.30	< 0.50	< 0.30	< 0.70	13.8	< 5.0	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	
MW-9													
12/09/01	< 25000	< 500	< 500	< 500	< 500	12000	Not an	nalyzed d	ue to hig	h detecti	on limits		
03/26/02	4800	< 25	33	< 25	< 25	8400							
06/25/02	8000	< 50	< 50	< 50	< 50	14000							
09/21/02	10000	< 50	< 50	< 50	< 100	14000							
12/21/02	13000	< 50	< 50	< 50	< 50	17000							
03/30/03	5900	< 50	< 50	< 50	< 50	7600							
06/24/03	10000	250	240	< 50	< 50	8800							
09/23/03	< 5000	< 50	< 50	< 50	< 100	11000							
12/08/03	< 5000	< 50	< 50	< 50	< 100	14000							
02/16/04	< 10000	< 100	100	< 100	230	11000							
05/21/04	5600	< 50	< 50	< 50	< 50	6600							
08/28/04	6500	< 50	< 50	< 50	< 50	8000							
12/03/04	8800	< 50	< 50	< 50	< 50	8600							
03/01/05	5900	< 50	< 50	< 50	< 50	6700			"				
05/28/05	657	< 0.5	1.3	7.2	11.5	4370			"				
09/07/05	290	< 0.5	< 0.5	2.8	4	2280			"				
12/07/05	462	2.0	4.6	1.6	4.7	2860			"				
03/27/06	< 2000	< 20	< 20	< 20	< 20	1100			"				
05/26/06	410	< 0.50	0.31	1.2	4.0	660	2100	< 0.50	0.44	8.9	< 0.50	< 0.50	< 100
08/17/06	550	< 5.0	< 5.0	< 5.0	< 10	540	3400	< 10	< 5.0	8.6	< 5.0	< 5.0	
11/09/06	< 50	< 10	< 10	< 10	< 10	440	420	< 10	< 10	< 10	< 10	< 10	< 1000
02/16/07	< 100	< 1.0	< 1.0	< 1.0	< 2.0	160	140	< 2.0	< 1.0	2.9	< 1.0	< 1.0	
09/02/07	< 50	< 0.50	0.78	1.1	2.6	29	41	< 1.0	< 0.50	0.70	< 0.50	< 0.50	
02/17/08	< 50	< 0.50	< 0.50	< 0.50	< 1.0	20	24	< 1.0	< 0.50	0.58	< 0.50	< 0.50	
08/02/08	< 25	< 0.50	< 0.50	0.77	< 1.0	6.8	< 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
	Sampled	annually	in Febru	ary per F	ebruary 2	27, 2009 lett	er.		_	_	_	_	
02/21/09	< 25	< 0.30	< 0.50	< 0.30	< 0.70	< 0.50	97.1	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	
02/13/10	< 25	< 0.30	< 0.50	< 0.30	< 0.70	17.1	8.1	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	

MW-10	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
12/09/01	< 10000	< 200	< 200	< 200	< 200	10000	Not an	alyzed d	ue to hig	h detecti	on limits		
03/26/02 06/27/02 09/21/02 12/21/02 03/30/03 06/24/03 09/23/03 12/08/03 02/16/04 05/21/04 08/28/04 12/03/04 03/01/05	8300 8600 13000 20000 14000 7100 < 10000 7100 < 20000 4400 5600 5200 7600	< 50 < 50 < 100 < 100 < 100 < 100 < 50 < 200 < 25 < 50 < 50 < 50 < 50	< 50 < 50 < 50 < 100 < 100 < 100 < 100 < 50 < 200 < 25 < 50 < 50 < 50 < 50	< 50 < 50 < 50 < 100 < 100 < 100 < 100 < 50 < 200 < 25 < 50 < 50 < 50 < 50	< 50 < 50 < 100 < 100 < 100 < 100 < 200 < 100 < 200 < 400 < 25 < 50 < 50 < 50	15000 16000 18000 22000 15000 15000 8100 22000 5000 6200 3200 5000							
05/28/05	417	< 0.5	< 0.5	0.9	1.4	1240			"				
09/04/05 12/07/05	< 1000	< 0.5 < 10.0	< 0.5 < 10.0	1.5 < 10.0	< 20.0	836	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
03/27/06	3100	< 0.50	0.88	< 0.50	< 1.0	< 0.50	360	< 0.50	0.69	72	< 0.50	< 0.50	< 50
05/25/06 08/17/06	420 940	< 0.50	0.27	0.49	0.66	910 1200	110 160	< 0.50	< 0.50	13 24	< 0.50	< 0.50	< 100
11/08/06	940 120	< 50	< 50	< 50	< 50	1200	< 500	< 50	< 50	< 50	< 50	< 50	< 5000
02/16/07	< 2500	< 25	< 25	< 25	< 50	5400	710	< 50	< 25	< 25	< 25	< 25	
09/02/07	1100	< 5.0	5.4	< 5.0	18	900	1100	< 10	< 5.0	18	< 5.0	< 5.0	
02/17/08	< 500	< 5.0	< 5.0	< 5.0	< 10	340 620	4800 520	< 10	< 5.0	9.2	< 5.0	< 5.0	
00/02/00	Sampled	semi-anr	v 5.0	< 5.0 Februar	y and Au	igust per Fel	520 bruary 27, 3	< 30 2009 lette	< 50 er.	< 50	< 5.0	< 5.0	
02/21/09	108	0.63	< 1.0	< 0.60	, < 1.4	165	< 10	< 1.0	< 1.0	1.4	< 0.60	< 0.40	
02/13/10	585	< 3.0	< 5.0	< 3.0	< 7.0	615	2110	< 5.0	< 5.0	9.0	< 3.0	< 2.0	
MW-11	~ 100	~ 20	~ 2 0	< 20	< 2.0	120							
03/25/02	< 100 260	< 2.0 28	< 2.0 49	< 2.0 4.9	< 2.0 25	120							
06/25/02	300	30	74	8.5	34	200	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 25
09/20/02	61	< 0.50	1.5	< 0.50	2.6	54	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/21/02	< 250	21	37	6.3	22	230	64 140	< 5.0	< 2.5	< 2.5	< 2.5	< 2.5	
06/24/03	< 200	< 0.50	< 0.50	< 2.5	< 5.0 1.8	15	< 5.0	< 5.0 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/25/03	380	0.62	1.6	8.1	24	3.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/07/03	< 50	< 0.50	< 0.50	0.53	1.3	1.1	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/15/04	58	< 0.50	< 0.50	< 0.50	< 1.0	110	7.6	< 1.0	< 0.50	0.64	0.50	0.50	
05/20/04	< 50 < 50	< 0.50	< 0.50	< 0.50	< 1.0 3.8	1.8	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/03/04	130	0.69	2.6	7.1	17	< 0.50 8.6	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/02/05	87	< 0.50	< 0.50	0.92	2.0	69	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/27/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	48.8	< 5.0	< 0.5	< 0.5	< 0.5			
09/07/05	< 50	< 0.5	< 0.5	0.9	1.1	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
12/07/05 03/24/06	0c > 88	4.4 ೧ ۹೧	5.7 0.90	1.1 0.55	ა.პ < 1 0	< 0.5 67	< 5.0 < 5.0	< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 50
05/24/06	22	< 0.50	< 0.50	0.26	< 1.0	6.7	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
08/17/06	< 50	< 0.5	< 0.50	0.78	1.7	0.99	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/08/06	< 50	< 0.5	1.0	< 0.5	< 0.9	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
02/16/07	< 50	< 0.50	1.1	< 0.50	1.5	9.4	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/02/07	< 50 < 50	< 0.50	< 0.50	< 0.50	2.7 < 1.0	< 0.50 1.1	< 5.0 < 5.0	< 1.0 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/02/08	< 25	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
		No long	er samp	led per F	ebruary	27, 2009 let	ter.						

	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
MW-12	- 170	. 20	. 2.0	. 20	. 2.0	220							
03/25/02	< 170 190	< 2.0 14	< 2.0 28	< 2.0 3.3	< 2.0 17	320 130							
06/27/02	59	< 1.0	< 1.0	< 1.0	< 2.0	320	23	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50
09/20/02	240	< 1.0	< 1.0	< 1.0	2.2	330	< 10	< 2.0	< 1.0	2.1	< 1.0	< 1.0	
12/21/02	< 250	< 2.5	< 2.5	< 2.5	< 5.0	540	160	< 5.0	< 2.5	< 2.5	< 2.5	< 2.5	
03/29/03	< 100	< 1.0	< 1.0	< 1.0	< 2.0	220	77	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	
06/23/03	600	< 5.0	< 5.0	< 5.0	< 10	670 500	< 50	< 10	< 5.0	< 5.0	< 5.0	< 5.0	
12/07/03	< 500 310	< 5.0	< 5.0	< 5.0	< 10	350	< 20	< 10	< 5.0	< 5.0	< 5.0	< 5.0	
02/15/04	110	< 0.5	< 0.5	< 0.5	< 1.0	140	12	< 1.0	< 0.5	< 0.5	< 2.5	< 2.5	
05/20/04	220	< 1.0	< 1.0	< 1.0	< 2.0	250	< 10	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	
08/29/04	150	< 1.0	< 1.0	1.3	3.7	140	11	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	
12/02/04	210	< 1.0	< 1.0	< 1.0	< 2.0	240	< 10	< 2.0	< 1.0	1.1	< 1.0	< 1.0	
03/02/05	130	< 1.0	< 1.0	< 1.0	< 2.0	130	< 10	< 2.0	< 1.0	1.1	< 1.0	< 1.0	
05/27/05	51.2	< 0.5	< 0.5	< 0.5	< 1.0	127	< 5.0	< 0.5	< 0.5	< 0.5			
09/01/05	87.3	< 0.5	< 0.5	< 0.5	< 1.0	104	< 5.0	< 0.5	< 0.5	< 0.5	0.5	0.5	
12/07/05	82.4	4.1	5.8	1.1	3.7	101	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	- 50
05/24/06	< 30 40	< 0.50	0.54	< 0.50	< 1.0	41	< 5.0 < 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
08/16/06	76	< 0.50	<.0.50	0.24	< 1.0	60	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 100
11/10/06	< 50	< 2.5	< 2.5	< 2.5	< 2.5	120	< 25	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 250
02/15/07	< 50	< 0.50	0.71	< 0.50	1.4	20	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/02/07	180	< 0.50	1.7	1.2	3.0	260	11	< 1.0	< 0.50	1.3	< 0.50	< 0.50	
02/17/08	< 50	< 0.50	< 0.50	< 0.50	< 1.0	3.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/02/08	Sample		y in Aug	ust per F	ebruary 2	7, 2009 lei 54	tter.	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
08/22/09	30 31.0	< 0.30	< 0.50	< 0.30	< 0.70	26.9	66.9	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	
MM/ 10													
03/08/02	2300	~ 10	~ 10	~ 10	~ 10	2600	Not an	h hazvler	ue to hia	h detecti	on limite		
06/25/02	2300 6400	< 50	< 50	< 50	< 50	2000 5900	NOT al	alyzeu u	ue to nig	n delecti	011 1111113		
09/20/02	6000	< 50	< 50	< 50	< 100	7500			"				
12/21/02	6300	< 25	< 25	< 25	< 25	7500			"				
03/29/03	4200	< 25	< 25	< 25	< 25	5500			"				
06/23/03	5200	< 25	< 25	< 25	< 25	5000			"				
09/25/03	< 2500	< 25	< 25	< 25	< 50	5800							
12/08/03	4100 8500	< 25	< 25	< 25	< 50	7100							
05/20/04	3200	< 25	< 25	< 25	< 25	3800			"				
08/29/04	3800	< 25	< 25	< 25	< 25	4900			"				
12/02/04	3700	< 25	< 25	< 25	34	3200			"				
03/03/05	2500	< 25	< 25	< 25	< 25	2400			"				
05/28/05	405	< 0.5	< 0.5	0.7	1.1	1510			"				
09/01/05	212	< 0.5	< 0.5	4.0	9.4	1820			"				
12/07/05	1040	< 10.0	< 10.0	< 10.0	< 20.0	2130							
03/24/06	1300	< 12	< 12	< 12	< 12	1000	100	- 0 50	< 0 E0	11	< 0 E0	- 0 50	- 100
05/26/06	520 ~ 1300	< 0.50	<.0.50	- 13	0.55 ~ 25	1300	190 360	< 0.50	< 0.50	14 - 13	< 0.50	< 0.50	< 100
11/10/06	75	< 25	< 25	< 25	< 25	880	290	< 25	< 25	< 25	< 25	< 25	< 2500
02/15/07	< 500	< 5.0	< 5.0	< 5.0	< 10	520	290	< 10	< 5.0	< 5.0	< 5.0	< 5.0	000
09/02/07	< 500	< 5.0	< 5.0	< 5.0	< 10	400	420	< 10	< 5.0	6.9	< 5.0	< 5.0	
02/17/08	< 500	< 5.0	< 5.0	< 5.0	< 10	290	110	< 10	< 5.0	8.2	< 5.0	< 5.0	
08/02/08	260	< 2.5	< 2.5	< 2.5	< 5.0	370	330	< 25	< 25	< 25	< 2.5	< 2.5	
00/0+/07	Sampled	I semi-anr	nually in	February	y and Augu	ust per Fe	bruary 27,	2009 lette	er.				
02/21/09	186	< 1.2	< 2.0	< 1.2	< 2.8	292	90.6	< 2.0	< 2.0	< 2.0	< 1.2	< 0.80	
08/23/09	200 139	< 1.2	< 2.0	< 1.2	< 2.8 ~ 1.4	∠03 145	443 226	< 2.0	< 2.0	< 2.0	< 1.2	< 0.80	
02/13/10	100	~ 0.0	< 1.0	~ 0.0	N 1.H	140	550	< 1.0	< 1.0	< 1.0	~ 0.0	< 0.40	

						•	•	,					
	TPH-gasoline	3enzene	Toluene	thylbenzene	otal Xylene isomers	/lethyl tert-butyl ether (MtBE)	ert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	ert-Amyl methyl ether (TAME	,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	ethanol
M\//-14				-		-	4	-	-	Ŧ	,	-	-
03/08/02	~ 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5							
05/00/02	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		. 1 0	. 0.5	. O F	. 0 5	. 0.5	. 05
06/27/02	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.68	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 25
09/20/02	< 2500	33	< 25	< 25	53	1900	< 250	< 50	< 25	41	< 25	< 25	
12/22/02	< 50	< 0.5	< 0.5	< 0.5	< 1.0	160	39	< 1.0	< 0.5	2.3	< 0.5	< 0.5	
03/29/03	< 50	< 0.5	< 0.5	< 0.5	< 1.0	4.9	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
06/23/03	100	< 0.5	< 0.5	< 0.5	1.4	3.2	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
09/25/03	< 50	< 0.5	< 0.5	0.75	2.4	1.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
12/07/03	< 50	< 0.5	< 0.5	< 0.5	< 1.0	1.6	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
02/15/04	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5			
05/20/04	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
08/28/04	61	11	< 0.50	1.8	4.3	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/01/04	< 50	< 0.5	< 0.5	< 0.5	- 1.0	< 0.50	< 5.0	< 1.0	< 0.00	< 0.00	< 0.00	< 0.00	
02/28/05	< 50	< 0.5	< 0.5	< 0.5 0.70	< 1.0 1 4	< 0.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/20/05	< 50	< 0.50	< 0.50	0.70	1.4	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/24/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
09/01/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
12/06/05	< 50	3.1	4.4	0.9	2.9	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
03/23/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
05/24/06	14	< 0.50	< 0.50	0.29	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
08/15/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/07/06	< 50	0.53	1.7	< 0.5	1.2	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
02/14/07	< 50	< 0.50	0.68	< 0.50	< 1.0	17	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/31/07		Sample	d annual	ly in Feb	oruary pe	er ltr 6 Feb 2	2007						
02/17/08	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
		No lona	er samp	led per F	ebruarv	, 27. 2009 le	etter.						
					,								
MW-15													
08/19/03	< 50	< 0.5	< 0.5	< 0.5	< 10	49	< 5.0	< 10	< 0.5	< 0.5	< 0.5	< 0.5	
00/25/03	< 50	< 0.5	< 0.5	< 0.5	< 1.0	4.0	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
12/07/02	< 50	< 0.5	< 0.5	< 0.5	< 1.0	0.90	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
12/07/03	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
02/15/04	54	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	0.5	0.5	
05/19/04	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
08/28/04	< 50	< 0.50	< 0.50	0.81	2.3	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/01/04	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/28/05	< 50	< 0.50	< 0.50	0.57	1.1	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/24/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
09/01/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
12/06/05	< 50	2.9	4.0	0.8	2.8	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
03/23/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
05/24/06	15	< 0.50	0.28	0.34	0.41	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
08/16/06	82	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/07/06	< 50	< 0.5	0.84	< 0.5	< 0.5	< 0.50	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
02/14/07	< 50	< 0.5	0.04	< 0.5	< 1.0	< 0.50	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 50
02/14/07	< 50	Compled	0.01	< 0.00		< 0.00	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
00/31/07	. 50	Sampleu			uary per	10 19 Dec 2	.000	. 1 0	. 0.50	. 0 50	. 0.50	. 0 50	
02/17/08	< 50	< 0.50	< 0.50	0.50 >	< 1.0	06.0 >	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
		ino long	er samp	iea per F	-ebruary	/ 27, 2009 le	etter.						
10100-10	0500		400		0.00	0000	050	F 2	07		65	07	
09/27/03	< 2500	59	180	68	360	3600	< 250	< 50	< 25	82	< 25	< 25	
12/08/03	7200	85	< 50	140	200	6200	Not ar	nalyzed d	ue to hig	n detecti	on limits		
02/15/04	540	< 5.0	< 5.0	< 5.0	< 10	520							
05/19/04	3100	< 25	< 25	< 25	< 25	3400			"				
08/28/04	3900	< 25	< 25	< 25	< 25	4900			"				
12/02/04	< 2500	< 25	< 25	< 25	< 25	1500			"				
03/03/05	3700	< 25	< 25	< 25	< 25	2700			"				
05/26/05	5450	< 50	61.8	124	191	3110			"				
09/04/05	655	51.2	< 0.5	42.5	5.8	2620			"				
12/05/05	2990	80.2	10.3	80.9	49.7	7100							
03/22/06	5200	< 50	< 50	< 50	< 50	2400			"				

MW/16 contin	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
05/25/06	2600	11	68	80	160	2500	360	< 5.0	< 5.0	60	< 5.0	< 5.0	~ 1000
08/16/06	2000	30	51	52	130	2300	850	< 25	< 13	< 13	< 13	< 13	< 1000
11/09/06	260	< 10	< 10	< 10	< 10	2400 490	1700	< 10	< 10	< 10	< 10	< 10	< 1000
02/15/07	< 100	< 1.0	< 1.0	1.8	4.1		1200	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1000
09/01/07	6100	< 1.0	49	180	540	1300	480	< 2.0	< 1.0	49	< 1.0	< 1.0	
02/16/08	2700	26	9.0	53	47	400	1300	< 2.0	< 1.0	16	< 1.0	< 1.0	
	Sample	d annuall	y in Aug	ust per F	ebruary 2	7, 2009 let	tter.						
08/03/08	9100	120	64	300	770	1900	1300	< 100	< 100	< 100	< 10	< 10	
08/23/09	614	5.9	3.3	17.3	44.1	94.3	1530	< 2.5	< 2.5	3.4	< 1.5	< 1.0	
MW-17													
09/27/03	< 25	< 2.5	< 2.5	< 2.5	< 5.0	450	< 25	< 5.0	< 2.5	6.8	< 2.5	< 2.5	
12/07/03	350	< 2.5	< 2.5	< 2.5	< 5.0	370	< 25	< 5.0	< 2.5	< 2.5	< 2.5	< 2.5	
02/15/04	200	< 2.5	< 2.5	< 2.0	< 0.0 5 9	210 420	< 20	< 5.0	< 2.5	< 2.5	< 25	< 25	
03/19/04	400	2.5	< 2.5	- 2.5	5.0 - 5.0	420 350	< 25	< 5.0	< 2.5	< 2.5	< 2.5	< 2.5	
12/02/04	280	< 2.5	< 2.5	3.9	< 3.0 9.4	200	< 25	< 5.0	< 2.5	< 2.5	< 2.5	< 2.5	
03/03/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	14	< 5.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	
05/26/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	72.5	< 5.0	< 0.5	< 0.5	0.8			
09/04/05	60.3	< 0.5	< 0.5	0.6	< 1.0	49.7	< 5.0	< 0.5	< 0.5	0.5			
12/05/05	119	1.5	2.2	0.8	2.7	189	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
03/22/06	84	1.3	1.8	0.76	< 1.0	84	< 5.0	< 0.50	< 0.50	0.91	< 0.50	< 0.50	< 50
05/25/06	370	< 0.50	< 0.50	0.78	1.0	720	11	< 0.50	< 0.50	6.6	< 0.50	< 0.50	< 100
08/16/06	< 1000	< 10	< 10	< 10	< 20	700	< 100	< 20	< 10	< 10	< 10	< 10	
11/09/06	< 50	< 17	< 17	< 17	< 17	470	< 170	< 17	< 17	< 17	< 17	< 17	< 1700
02/15/07	< 250	< 2.5	< 2.5	< 2.5	< 5.0	470	< 25	< 5.0	< 2.5	< 2.5	< 2.5	< 2.5	
09/01/07	520	1.1	2.8	7.1	17	450	6.8	< 1.0	< 0.50	8.6	< 0.50	< 0.50	
02/16/08	< 50	< 0.50	< 0.50	< 0.50	< 1.0	110	16	< 1.0	< 0.50	0.91	< 0.50	< 0.50	
00/02/00	Sample	d annuali	y in Aug		ebruary 2	7, 2009 lei	ater.	. 50	- 50	< F0	- 5 0	. 5 0	
08/03/08	440	< 3.0	< 5.0	< 3.0	< 10	440 006	< 100	< 50	< 50	< 50	< 3.0	< 3.0	
00/23/09	924	< 5.0	< 0.5	< 5.0	< 0.0	900	155	< 0.5	< 0.5	11.5	< 5.0	< 2.5	
MW-18													
09/27/03	< 250	< 2.5	< 2.5	< 2.5	< 5.0	300	< 25	< 5.0	< 2.5	3.4	< 2.5	< 2.5	
12/07/03	500	< 5.0	< 5.0	< 5.0	< 10	540	< 50	< 10	< 5.0	< 5.0	< 5.0	< 5.0	
02/15/04	320	< 2.5	< 2.5	< 2.5	< 5.0	300	28	< 5.0	< 2.5	3.7			
05/19/04	310	< 2.5	< 2.5	< 2.5	< 5.0	230	< 25	< 5.0	< 2.5	< 2.5	< 2.5	< 2.5	
08/28/04	250	1.5	< 1.0	2.3	5.6	220	< 10	< 2.0	< 1.0	2.4	< 1.0	< 1.0	
12/03/04	310	< 1.0	1.2	3.6	8.7	340	< 10	< 2.0	< 1.0	1.1	< 1.0	< 1.0	
03/03/05	150	< 1.0	< 1.0	< 1.0	< 2.0	170	< 10	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	
05/26/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	117	< 5.0	< 0.5	< 0.5	1.0			
09/04/05	62.8	< 0.5	< 0.5	0.6	1.1	52.4	< 5.0	< 0.5	< 0.5	< 0.5			
12/05/05	87.1	2.0	2.7	0.9	3.0	125	< 5.0	< 0.5	< 0.5	0.9	< 0.5	< 0.5	=0
03/22/06	/5 47	< 0.50	< 0.50	< 0.50	< 1.0	75 55	< 5.0	< 0.50	< 0.50	0.51	< 0.50	< 0.50	< 50
05/25/06	47	< 0.50	< 0.50	0.78	1.0	20	< 10	< 0.50	< 0.50	0.33	< 0.50	< 0.50	< 100
11/00/06	79 ~ 50	< 0.50	< 0.50	< 0.50	< 1.0	30 160	< 5.U	< 0.50	< 0.50	0.51	< 0.50	< 0.50	~ 500
02/15/07	< 30 110	< 0.50	< 0.50	< 0.50	< 0.0 < 1.0	150	< 30 Q 1	< 1.0	< 0.50	< 0.0 1 A	< 0.50	< 0.50	~ 500
09/01/07	120	< 0.50	2.0	3.0	7.7	72	< 5.0	< 1.0	< 0.50	1.2	< 0.50	< 0.50	
02/16/08	< 50	< 0.50	< 0.50	< 0.50	< 1.0	42	7.8	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/03/08	< 25	< 0.50	< 0.50	< 0.50	< 1.0	18	< 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
	Sampled	semi-anr	nually in	Februar	and Aug	ust per Fel	bruary 27, 2	2009 lette	er.	-			
02/21/09	< 25	< 0.30	< 0.50	< 0.50	< 0.70	10.3	< 5.0	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	
08/23/09	< 25	< 0.30	< 0.50	< 0.30	< 0.70	16.0	< 5.0	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	
02/13/10	< 25	< 0.30	< 0.50	< 0.30	< 0.70	9.2	< 5.0	< 0.50	< 0.50	< 0.50	< 0.30	< 0.20	

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MW 40	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
10/12/02	< 50	< 0.50	< 0.50	< 0.50	- 10	< 0.50	< 5.0	- 10	< 0.50	< 0.50	< 0.50	< 0.50	
12/21/02	< 50	< 0.50	< 0.50	2.9	< 1.0 7.6	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/29/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
06/23/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/22/03	< 50	< 0.50	< 0.50	< 0.50	1.9	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/07/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/15/04	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/28/04	< 50 51	0.53	< 0.50	0.81	2.4	< 0.50 1.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/01/04	< 50	< 0.50	< 0.50	< 0.5	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/03/05	< 50	< 0.50	< 0.50	1.4	3.1	0.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/26/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
09/04/05	< 50	< 0.5 2 7	< 0.5 3 3	0.8	1.4	< 0.5 4 Q	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
03/22/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
05/25/06 06/20/06	15	< 0.50	< 0.50	0.60	0.78	3.6	64	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
15 gal purge	< 50	< 0.50	< 0.50	< 0.50	< 1.0	2.4	15	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
60 gal purge	58	< 0.50	< 0.50	< 0.50	< 1.0	3.0	18	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
120 gal purge 08/16/06	e < 50	< 0.50	< 0.50	< 0.50	< 1.0	1.9	15 ~ 5 0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/09/06	< 50 < 50	< 0.50	0.95	< 0.50	0.92	< 0.50 0.53	< 5.0 < 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
02/15/07	< 50	< 0.50	0.81	< 0.50	< 1.0	6.9	57.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/01/07	< 50	< 0.50	1.2	1.9	5.4	1.8	150	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/16/08	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/03/08	< 25	< 0.50 No long	< 0.50 er samp	0.50 > Ied per F	< 1.0 February	< 1.0 27, 2009 le	< 10 tter.	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
		i to long	or oump		cordary	21,2000 10							
MW-20													
03/08/02	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5							
06/25/02	250	37	85	9.2	37	0.90	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 25
09/20/02	< 50 240	0.73	2.6 40	< 0.50 5 9	3.1	0.81	< 5.0 5 1	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/29/03	< 50	5.7	14	2.7	9.2	1.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
06/23/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/22/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/07/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/15/04	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/28/04	< 50 56	< 0.50 0.85	< 0.50	< 0.50 1.3	3.3	< 0.50	< 5.0 < 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/01/04	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/02/05	< 50	< 0.50	< 0.50	1.0	2.4	0.76	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/26/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
09/04/05	< 50	< 0.5	< 0.5	0.6	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	0.5	0.5	
12/06/05 03/24/06	< 50	3.8	5.4 0.50	1.1	3.8 - 1 0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	~ 50
05/25/06	20	< 0.50	< 0.50	< 0.50 1.1	1.4	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
08/16/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/08/06	< 50	< 0.5	0.72	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
02/14/07	< 50	< 0.50	0.97	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/01/07	74	< 0.50	1.7	1.5	3.9	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/17/08	< 50 67	< 0.50 2 N	< 0.50 1.4	< 0.50 4.5	< 1.0 7.5	< 0.50 2.2	< 5.0 < 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
30,00,00	<u>.</u> .	0						- 0.0	- 0.0			- 0.00	

No longer sampled per February 27, 2009 letter.

MW-21	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
08/29/04	54	0.62	< 0.50	1.0	3.0	0.76	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/01/04	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/26/05	< 50 < 50	< 0.50	< 0.5	< 0.50	< 1.0	< 0.50 < 0.5	< 5.0	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	
09/04/05	< 50	< 0.5	< 0.5	0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	o =	<u> </u>	
12/07/05 03/24/06	< 50 < 50	3.9 0.88	5.0 0.86	1.0 0.57	2.5 < 1.0	< 0.5 0.58	< 5.0 < 5.0	< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 50
05/25/06	13	< 0.50	0.24	0.49	0.66	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
08/16/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	50
02/14/07	< 50 < 50	< 0.5 < 0.50	1.1 0.57	< 0.5 < 0.50	0.9 < 1.0	< 0.5 < 0.50	< 5.0 < 5.0	< 0.5 < 1.0	< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 50
09/01/07	< 50	< 0.50	1.7	1.7	3.7	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/16/08	< 50	< 0.50	< 0.50	0.64	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
06/03/08	< 20	< 0.50 No long	< 0.50 er samp	< 0.50 led per F	< 1.0 February	< 1.0 27, 2009 let	< 10 ter.	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
MW-22		0	•	•	,	,							
08/29/04	60	< 0.50	0.56	0.85	1.2	2.4	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/01/04	< 50	< 0.50	< 0.50	< 0.50	< 1.0	0.56	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/26/05	< 50 < 50	< 0.50	< 0.50	< 0.52	< 1.0	< 0.5 < 0.5	< 5.0 < 5.0	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	
09/04/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
12/07/05	< 50	3.2	3.6	0.7	1.4	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
05/25/06	20	0.26	0.57	1.3	1.6	< 0.50 0.94	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
08/16/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
11/07/06 02/14/07	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
09/01/07	< 50 < 50	< 0.50	1.8	< 0.50 1.7	3.1	< 0.50 < 0.50	< 5.0 < 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/16/08	< 50	< 0.50	< 0.50	0.79	1.1	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/03/08	< 25	< 0.50	< 0.50 er samp	< 0.50 led per F	< 1.0 February	< 1.0 27 2009 lett	< 10 ter	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
M\\/-23		i to long	or oump		cordary	27, 2000 101							
03/08/02	4000	32	< 13	< 13	25	4600	Not an	alyzed d	ue to hig	h detecti	on limits		
06/27/02	12000	< 100	< 100	< 100	< 100	11000			"				
09/20/02	< 10000 7100	< 100 < 50	< 100	< 100 < 50	< 200	12000 7300							
03/29/03	5500	< 50	< 50	< 50	< 50	6000			"				
06/23/03	8900	< 50	< 50	< 50	< 50	8600			"				
09/25/03 12/08/03	< 10000 7100	< 100 < 50	< 100 < 50	< 100 < 50	< 200 < 100	14000 9800			"				
02/15/04	< 5000	< 50	< 50	< 50	< 100	4400			"				
05/20/04	5400	< 50	< 50	< 50	< 50	6300			"				
08/29/04 12/02/04	6200 < 5200	< 50 < 50	< 50 < 50	< 50 < 50	< 50 < 50	7900 3200			"				
03/01/05	2300	< 10	< 10	< 10	< 10	1400			"				
05/28/05	383	< 0.5	< 0.5	0.8	1.1	1450			"				
12/06/05	< 500	< 5.0	1.3 < 5.0	< 5.0	< 10.9	930 132	< 50.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
03/27/06	170	< 0.50	0.72	< 0.50	< 1.0	150	130	< 0.50	< 0.50	1.5	< 0.50	< 0.50	< 50
05/26/06	340 1100	< 0.50	< 0.50	0.37	0.37	670 670	870 410	< 0.50	0.24	11 16	< 0.50	< 0.50	< 100
11/10/06	93	< 5.0 < 10	< 10	< 5.0 < 10	< 10	800	1600	< 10	< 10	< 10	< 10	< 10	< 1000
02/15/07	< 100	< 1.0	< 1.0	< 1.0	< 2.0	190	58	< 2.0	< 1.0	3.4	< 1.0	< 1.0	
09/01/07 02/17/08	380 < 50	< 0.50	2.5	1.8	4.3	440 11	54 9 0	< 1.0	< 0.50	9.4	< 0.50	< 0.50	
02/11/00	Sampleo	d annuall	y in Aug	ust per F	ebruary	27, 2009 lett	ter.	< 1.0	× 0.00	< 0.00	< 0.50	× 0.00	
08/02/08	340	< 5.0	< 5.0	< 5.0	< 10	480	< 100	< 50	< 50	< 50	< 5.0	< 5.0	
08/22/09	131	< 0.75	< 1.3	< 0.75	< 1.8	87.0	831 ™	< 1.3	< 1.3 ຊີຊາດາ	1.8	< 0.75	< 0.50	CONCU
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 $\mathbb{H}_2 \mathrm{OGEOL}$ a ground $_{\mathrm{WATER}}$ consultancy

| | TPH-gasoline | Benzene | Toluene | Ethylbenzene

 | Total Xylene isomers | Methyl tert-butyl ether (MtBE)
 | tert-Butyl alcohol (TBA) | Di-isopropyl Ether (DIPE) | Ethyl tert-butyl ether (EtBE) | tert-Amyl methyl ether (TAME) | 1,2-Dichloroethane (1,2-DCA)
 | Ethylene dibromide (EDB) | Ethanol |
|--|---|--|--
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| MW-24
10/12/02 | < 5000 | < 50 | < 50 | < 50

 | < 100 | 10000
 | < 500 | < 100 | < 50 | 160 | < 50
 | < 50 | |
| 12/22/02
03/29/03
06/23/03
09/25/03
12/08/03
02/15/04
05/20/04
08/29/04
12/02/04
03/01/05
05/24/05
09/01/05
12/06/05
03/27/06
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08/15/06 | 9400
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8000
610
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2600
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580 | < 50 < 50 < 25 < 50 < 50 < 50 < 50 < 50 < 50 < 50 < 0.5 < 5.0 < 10 < 0.5 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5. | < 50
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< 10.0
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7500
8100
7000
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2000 | < 5.0
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31
17
7.3 | < 5.0
< 10
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< 5.0
 | < 5.0
< 10
< 0.50
< 5.0 | < 1000
< 100 |
| 11/09/06 | < 50 | < 5.0 | < 5.0 | < 5.0

 | < 5.0 | 92
 | 1500 | < 5.0 | < 5.0 | < 5.0 | < 5.0
 | < 5.0 | < 500 |
| 02/15/07
09/01/07 | 960
< 100 | < 5.0
< 1.0 | < 5.0
1.0 | < 5.0
1.1

 | < 10
2.6 | 1300
20
 | 1800
770 | < 10
< 2.0 | < 5.0
< 1.0 | 18.0
1.0 | < 5.0
< 1.0
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| 02/17/08 | < 100 | < 1.0 | 1.0 | < 1.0

 | < 2.0 | 44
 | 1100 | < 2.0 | < 1.0 | 1.7 | < 1.0
 | < 1.0 | |
| 08/02/08 | 28 | < 0.50 | < 0.50 | < 0.50

 | < 1.0 | 26
 | 260 | < 5.0 | < 5.0 | < 5.0 | < 0.50
 | < 0.50 | |
| 02/21/09 | Sampled
32.4 | < 0.30 | < 0.50 | < 0.30

 | y and Au
< 0.70 | igust per ⊢er
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 | 246 pruary 27, 2 | < 0.50 | er.
< 0.50 | < 0.50 | < 0.30
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| 08/22/09 | < 250 | < 3.0 | < 5.0 | < 3.0

 | < 7.0 | 18.4
 | 2620 | < 5.0 | < 5.0 | < 5.0 | < 3.0
 | < 2.0 | |
| 02/13/10 | < 130 | < 1.5 | < 2.5 | < 1.5

 | < 3.5 | 26.5
 | 2460 | < 2.5 | < 2.5 | < 2.5 | < 1.5
 | < 1.0 | |
| MW-25 | | | |

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| 11/19/02
12/22/02
03/29/03
06/23/03
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08/27/04
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< | < 0.50
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| MW-26 | | | |

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| 11/19/02
12/22/02
03/29/03
06/23/03
09/25/03 | < 50
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	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
12/07/03 02/15/04	< 50 < 50	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50	< 1.0 < 1.0	7.9 2.6	< 5.0 < 5.0	< 1.0 < 1.0	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50	< 0.50 < 0.50	
05/20/04	< 50	< 0.50	< 0.50	1.3	2.4	3.7	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
11/30/04	< 50 53	< 0.50 < 0.50	< 0.50	< 0.50 > 0.86	< 1.0 3.7	6.0 4.1	< 5.0 < 5.0	< 1.0 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/02/05	< 50	< 0.50	< 0.50	0.55	1.0	2.3	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/24/05 08/31/05	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 1.0 < 1.0	2.1 2.6	< 5.0 < 5.0	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5			
12/06/05	< 50	2.5	3.8	0.8	2.6	1.7	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
03/23/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	1.5	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
03/24/06	< 50	< 0.50 < 0.50	< 0.50	0.22 < 0.50	< 1.0 < 1.0	1.0	< 10 < 5.0	< 0.50 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 100
11/09/06	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
02/14/07	< 50	< 0.50	0.56	< 0.50	1.0 2.6	0.9	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/16/08	< 50 < 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/02/08	< 25	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
		No long	er samp	led per F	ebruary	/ 27, 2009 le	etter.						
MW-27													
11/19/02	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/29/03	< 50 < 50	< 0.50	< 0.50	0.60	< 1.0	< 0.50 < 0.50	< 5.0 < 5.0	< 1.0 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
06/23/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/25/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50 0.64	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/15/04	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.5	< 0.5	< 0.00	< 0.00	
05/20/04	66	< 0.50	< 0.50	1.0	1.7	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/27/04 11/30/04	< 50 < 50	< 0.50 < 0.50	< 0.50	< 0.50	< 1.0 2.0	< 0.50 < 0.50	< 5.0 < 5.0	< 1.0 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
03/02/05	< 50	< 0.50	< 0.50	0.58	1.3	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/24/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5			
12/06/05	< 50 < 50	< 0.5 2.2	< 0.5 3.1	0.5 0.7	< 1.0 2.8	< 0.5 < 0.5	< 5.0 < 5.0	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5	< 0.5	
03/27/06	< 50	< 0.50	0.68	< 0.50	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50
05/24/06	19 < 50	< 0.50	< 0.50	0.21	< 1.0	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100
11/09/06	< 50 < 50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.50 < 0.5	< 5.0 < 5.0	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 50
02/14/07	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/02/07 02/16/08	< 50	< 0.50	1.3	1.7	2.9	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/02/08	< 25	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
		No long	er samp	led per F	ebruary	∕ 27, 2009 le	etter.						
MW-28													
11/19/02	< 50	< 0.50	< 0.50	< 0.50	< 1.0	4.3	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/22/02	< 50	< 0.50	< 0.50	< 0.50	< 1.0	3.3	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/29/03	< 50 < 50	< 0.50 < 0.50	< 0.50	< 0.50	< 1.0	0.80	< 5.0 < 5.0	< 1.0 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
09/25/03	< 50	< 0.50	< 0.50	0.86	2.2	< 0.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
12/07/03	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/15/04	< 50	< 0.50 < 0.50	< 0.50	1.3	< 1.0 2.3	< 0.5 < 0.5	< 5.0 < 5.0	< 1.0 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/27/04	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
11/30/04	57 52	< 0.50	< 0.50	0.66	2.9	12	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
05/02/05	- 50	< 0.50 < 0.5	< 0.50	1.1 < 0.5	ە.∠ 1.0 >	9.9	< 5.0 < 5.0	< 1.0 < 0.5	< 0.50	< 0.50 < 0.5	< 0.50	< 0.50	
08/31/05	< 50	< 0.5	< 0.5	< 0.5	< 1.0	12.1	< 5.0	< 0.5	< 0.5	< 0.5			

MW-28 contin	TPH-gasoline	Benzene	Toluene	Ethylbenzene	Total Xylene isomers	Methyl tert-butyl ether (MtBE)	tert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	tert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
12/06/05 03/23/06 05/24/06 08/15/06 11/09/06 02/14/07 09/02/07 02/16/08 08/02/08	< 50 < 50 21 < 50 < 50 < 50 < 50 < 50 < 50 < 25	2.4 < 0.50 < 0.5 < 0.5 < 0.50 < 0.50 < 0.50 < 0.50 No long	3.4 < 0.50 < 0.50 < 0.5 < 0.5 < 0.50 1.4 < 0.50 < 0.50 er sample	0.7 < 0.50 0.24 < 0.5 < 0.5 < 0.50 2.0 < 0.50 < 0.50 ed per F	2.2 < 1.0 < 1.0 < 0.5 < 1.0 3.2 < 1.0 < 1.0 Sebruary 2	8.0 6.2 6.4 6.1 5.5 3.4 4.6 3.3 4.0 27, 2009 let	< 5.0 < 5.0 < 10 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 10 ter.	< 0.5 < 0.50 < 0.50 < 1.0 < 0.5 < 1.0 < 1.0 < 1.0 < 5.0	< 0.5 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 5.0	< 0.5 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 5.0	< 0.5 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50	< 0.5 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50 < 0.50	< 50 < 100 < 50
MW-29													
08/28/04 12/01/04 03/01/05 05/24/05	64 < 50 98 < 50	1.2 0.62 < 0.50 < 0.5	< 0.50 5.6 < 0.50 < 0.5	2.1 < 0.50 0.78 < 0.5	5.1 2.7 1.5 < 1.0	< 0.50 < 0.50 < 0.50 < 0.5	< 5.0 < 5.0 < 5.0 < 5.0	< 1.0 < 1.0 < 1.0 < 0.5	< 0.50 < 0.50 < 0.50 < 0.5	< 0.50 < 0.50 < 0.50 < 0.5	< 0.50 < 0.50 < 0.50	< 0.50 < 0.50 < 0.50	
09/01/05 12/06/05 03/23/06	< 50 < 50 < 50	< 0.5 3.3 < 0.50	< 0.5 3.0 0.63	< 0.5 0.6 < 0.50	< 1.0 < 1.0 < 1.0	< 0.5 < 0.5 < 0.50	< 5.0 < 5.0 < 5.0	< 0.5 < 0.5 < 0.50	< 0.5 < 0.5 < 0.50	< 0.5 < 0.5 < 0.50	< 0.5 < 0.50	< 0.5 < 0.50	< 50
05/24/06	16	< 0.50	< 0.50	0.32	< 1.0	< 0.50	< 10	< 0.50	< 0.50	0.36	0.18	< 0.50	< 100
08/15/06	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/07/06	< 50	< 0.5	1.2	< 0.5	0.96	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50
02/14/07	< 50 50	< 0.50	0.88 1.4	1.3	3.3	< 0.50	< 5.0	< 1.0 < 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
02/17/08	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
08/02/08	< 25	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
		No long	er sample	ed per F	ebruary 2	27, 2009 let	ter.						
11/29/99	8600	41	160	250	1500	3600	~ 500	~ 100	~ 100	~ 100			
11/03/00	26000	270	4600	920	6900	14000	< 1000	< 2000	< 100	< 1000	< 200	< 200	
02/16/01	11000	24	250	160	2100	3800	440	< 500	< 250	< 250			
05/17/01	6000	28	78	79	1400	1100	270	< 100	< 50	< 50			
08/13/01	110000 The Ter	280	7100	930	2800	83000		4°					
03/26/02	Ine Ian 6500	K VVell tha	at extend	IS ONLY TO 64		om of the ta	Not an	tion was alvzed d	ary. ue to hia	h detecti	on limits		
06/25/02	6800	< 25	130	130	690	1200	Not an	alyzea a	ue to riig "	in deteou			
09/21/02	8200	20	100	120	410	270			"				
12/21/02	1300	15	28	18	77	75	130	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	
03/30/03	6000	51	200	240	1900	11000	4700	< 100	< 50	< 50	< 50	< 50	
06/23/03	4400 6500	30 30	76 96	37 68	280 380	2100	Not an	alyzed d	ue to nig "	n detecti	on limits		
12/08/03	3300	87	71	60	190	3900							
02/16/04	3100	100	140	68	260	590			"				
05/20/04	830	17	41	26	80	160			"				
08/30/04	5400	160	1100	120	1600	260							
12/03/04	2200 140	8.5 < 0.50	14	/3	270	01 12							
05/26/05	539	15.0	48.8	24.3	69.9	91.3			"				
09/07/05	377	11.8	17.3	20.4	57.3	34.4			"				
12/08/05	210	5.0	6.7	5.5	27.1	10.5			"				
03/24/06	110	0.77	1.1	1.2	3.7	3.7	. 10	. 0.50	. 0.50	0.0	. 0.50		05
US/20/U0 03/24/06	∠50 110	0.7 0.77	∠ı 11	13 12	37 37	43 37	< 10	< 0.50	< 0.50 "	2.3	< 0.50	< 0.50	82
05/26/06	250	6.7	21	13	37	43	< 10	< 0.50	< 0.50	2.3	< 0.50	< 0.50	85
08/17/06	280	4.5	9.1	11	21	21	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
11/10/06	550	8.7	28	19	60	41	< 10	< 1.0	< 1.0	1.8	< 1.0	< 1.0	< 100
02/13/07	< 50	< 0.50	1.9	2.2	4.5	1.5	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	

	FPH-gasoline	Benzene	Toluene	Ethylbenzene	Fotal Xylene isomers	Methyl tert-butyl ether (MtBE)	ert-Butyl alcohol (TBA)	Di-isopropyl Ether (DIPE)	Ethyl tert-butyl ether (EtBE)	ert-Amyl methyl ether (TAME)	1,2-Dichloroethane (1,2-DCA)	Ethylene dibromide (EDB)	Ethanol
Tank Well, co	ntinued.	_	•	_		_	-	_	_	-	-	_	_
09/02/07	300	2.3	12	13	44	7.9	< 5.0	< 1.0	< 0.50	< 0.75	< 0.50	< 0.50	
02/17/08	< 50	< 0.50	< 0.50	0.81	1.3	0.66	< 5.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	
	Sample	d annuall	y in Aug	ust per F	ebruary	27, 2009 let	ter.						
08/03/08	80	1.7	2.3	4.9	10	6.5	< 10	< 5.0	< 5.0	< 5.0	< 0.50	< 0.50	
08/22/09	536	8.0	8.5	25.2	65.8	32.0	57.5	< 0.50	< 0.50	2.0	< 0.30	< 0.20	
EW-1 12/09/01 03/26/02 06/25/02	< 25000 13000 13000	< 500 < 100 < 100	31000 23000 18000	Not an	alyzed c	lue to hig "	ıh detect	tion limits					
09/20/02	12000	< 100	< 100	< 100	< 200	15000							
12/22/02	19000	< 100	< 100	< 100	< 100	22000			"				
03/29/03	18000	< 100	< 100	< 100	< 100	19000							
06/23/03	23000	510	530	< 100	< 100	31000							
12/08/03	12000	< 100	< 100	< 100	< 200	27000			"				
02/16/04	12000	< 50	< 50	< 50	< 100	18000			"				
04/21/04	13000	< 100	< 100	< 100	< 100	15000			"				
05/20/04	12000	< 100	< 100	< 100	< 100	15000			"				
08/28/04	12000	< 100	< 100	< 100	< 100	14000			"				
12/02/04	15000	< 100	< 100	< 100	< 100	15000			"				
03/03/05	11000	< 100	< 100	< 100	< 100	11000			"				
05/26/05	867	< 0.5	< 0.5	< 0.5	< 1.0	10700			"				
08/31/05	299	< 0.5	< 0.5	< 0.5	< 1.0	4030			"				
08/31/05	< 5000	< 50	< 50	< 50	< 50	5600	Duplicate	e analysy	/s by alte	rnate la	boratory.		
12/08/05	367	< 0.5	< 0.5	< 0.5	< 1.0	1600	Not an	alyzed c	lue to hig	h detect	tion limits		
03/24/06	2700	18	< 10	120	77	130			"				
05/24/06	360	0.16	< 0.50	0.14	< 0.50	* 320	* 9100	< 0.50	0.82	2.4	< 0.50	< 0.50	< 100
00/44/00				* = H	ligher of I	reported cor	ncentration	s. MtBE	also repo	orted at	290 and	TBA at 7	200
08/14/06	< 5000	< 50	< 50	< 50	< 100	< 50	9500	< 100	< 50	< 50	< 50	< 50	
11/10/06	< 50	< 50	< 50	< 50	< 50	< 50	11000	< 50	< 50	< 50	< 50	< 50	< 5000
02/16/07	< 1000	< 10	< 10	< 10	< 20	< 10 130	8800	< 20	< 10	< 10 5.8	< 10	< 10	
02/17/08	< 500	< 5.0	< 5.0	< 5.0	< 10	56	7900	< 10	< 5.0	< 5.0	< 5.0	< 5.0	
02/11/00	Sample	d annuall	v in Aua	ust per F	February	27, 2009 let	ter.		< 0.0	< 0.0	< 0.0	< 0.0	
08/03/08	< 250	< 5.0		< 5.0	< 10	15	3400	< 50	< 50	< 50	< 5.0	< 5.0	
08/23/09	960	< 0.75	< 1.3	4.2	1.8	81.7	701	< 1.3	< 1.3	< 1.3	< 0.75	< 0.50	
EW-2t	23000	230	- 100	800	980	13000	~ 1000	~ 200	~ 100	270	~ 100	~ 100	
EW-2	23000	250	< 100	000	300	13000	< 1000	< 200	< 100	210	< 100	< 100	
08/28/04	13000	< 100	< 100	130	190	12000	Not an	alyzed c	lue to hig	h detect	tion limits		
12/02/04	10000	99	300	230	900	5700							
03/03/05	12000	86	95	240	1400	4500							
09/26/05	904 2250	13.5	6.0	29.8	96.Z	1930			"				
08/31/05	2300	< 0.5	< 0.5	17.5	31.0 42	2100	Duplicate	analve	is by alte	rnata la	boratory		
12/07/05	2000	< 0.5	< 0.5	24	34	673	Not an	alvzed c	lue to hio	in detect	tion limits		
03/24/06	< 500	< 5.0	< 5.0	< 5.0	< 5.0	78	100 011		"				
05/26/06	1700	14	2.5	63	49	800	2200	< 5.0	< 5.0	14	< 5.0	< 5.0	< 1000
08/14/06	3300	< 25	< 25	< 25	130	1800	2000	< 50	< 25	< 25	< 25	< 25	
11/09/06	490	< 25	< 25	< 25	< 25	790	1100	< 25	< 25	< 25	< 25	< 25	< 2500
02/13/07	1800	6.0	< 2.5	51	66	100	1600	< 5.0	< 2.5	< 2.5	< 2.5	< 2.5	
08/31/07	160	0.81	< 0.50	2.9	< 1.0	73	1700	< 1.0	< 0.50	< 1.2	< 0.50	< 0.50	
02/17/08	920	1.9	< 1.0	20	11	38	1300	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	
c = /=	Sample	d annuall	y in Aug	ust per F	ebruary	27, 2009 let	ter.				- -	- -	
08/03/08	< 100	< 2.0	< 2.0	< 2.0	< 4.0	25	1000	< 20	< 20	< 20	< 2.0	< 2.0	
08/23/09	1460	1.6	< 2.5	11.0	3.5	125	1440	< 2.5	< 2.5	2.9	< 1.5	< 1.0	

Table 3Well Construction DataTower Mart #182130 Pleasant Valley RoadDiamond Springs, CA

Well ID	Date Installed	Borehole Diameter (inches)	Well Diameter (inches)	T.O.C to Screen (feet)	Screened Interval (feet)	Total Depth (feet)	Notes
1	11/4/98	8	2	20	11.5	31.5	Destroyed
2	11/4/98	8	2	20	13.2	33.2	Destroyed
3	11/4/98	8	2	20	9.6	29.6	Destroyed
4	8/17/01	9.25	2	10	20	30.4	
5	12/3/01	9.25	2	15	14.5	29.8	
6	12/4/01	9.25	2	15	15	30.4	
7	12/4/01	9.25	2	20	24.5	44.9	
8	12/3/01	9.25	2	20	24.5	44.9	
9	12/4/01	9.25	2	15	15	30.5	
10	12/4/01	9.25	2	15	15	30.4	
11	12/4/01	9.25	2	15	15	30.5	
12	12/4/01	9.25	2	15	15	30.2	
13	2/11/02	9.25	2	15.5	15	31.0	
14	2/18/02	9.25	2	15.5	25	30.8	
15	8/16/03	6	2	18	9.5	43.2	
16	9/25/03	6	2	12	30	21.8	
17	9/23/03	6	2	9	20.5	39.5	
18	9/23/03	6	2	9	13	30.0	
19	10/4/02	8	2	16.5	15.5	30.0	Destroyed
20	2/11/02	9.25	2	23.5	20	39.6	Destroyed
21	8/24/04	8	2	13	20	33.5	Destroyed
22	8/24/04	8	2	20	20	40.5	Destroyed
23	2/18/02	9.25	2	15.5	14.5	30.5	
24	10/4/02	8	2	19.5	20	40.0	
25	11/13/02	8.5	2	14	15	29.5	
26	11/13/02	8.5	2	14.5	14.5	29.5	
27	11/15/02	8.5	2	14	15	29.4	
28	11/14/02	8.5	2	18.5	15	33.9	
29	7/23/04	8	2	20	29	49.4	
EW-1	12/3/01	15	8	20	14.5	35.0	
EW-2	7/8/04	12	6	10	39.5	50.0	
Tank Well	6/24/97	10	4	2	10	12.0	

TABLE 4 LIST OF REPORTS Tower Mart #182 130 Pleasant Valley Road Diamond Springs

Date	Company	Title
August 2000	Parker Environmental	Environmental Site Investigation
November 2000	H ₂ OGEOL	Preliminary Sensitive Receptor Survey
December 2000	H ₂ OGEOL	Addenda (2) to Sensitive Receptor Survey
December 2000	H ₂ OGEOL	Problem Assessment Workplan
December 2001	H ₂ OGEOL	Additional Borehole Groundwater Investigation, Monitoring Well Installation, and Extraction Well Installation
May 2002	H ₂ OGEOL	Step Drawdown Test, Constant Rate Test and Capture Zone Analysis of Well EW-1
December 2002	H ₂ OGEOL	Installation of Additional Monitoring Wells MW-24 to MW-28
September 2003	H ₂ OGEOL	Installation of Monitoring Wells MW-15 to MW-18
June 2004	West & Associates	Application for Land Disposal of Treated Groundwater Under Order No R5-2003-0044
September 2004	H ₂ OGEOL	Installation of Monitoring Wells MW-21, MW-22 and MW-29
January 2007	H ₂ OGEOL	Soil Vapor Intrusion Workplan
April 2009	West & Associates	High Vacuum Dual Phase Extraction Test Report
August 2010	H ₂ OGEOL	Workplan for Upgradient and Cross Well Abandonment
August 2010	H ₂ OGEOL	Fuel System Removal Soil Sampling Report
August 2010	H ₂ OGEOL	Well Abandonments During August 2010
1999 through 2010	Various	Groundwater Monitoring and Remediation System Reports

Copies of the H₂OGEOL and West & Associates reports can be provided upon request. More recent reports, beginning with the 3^{rd} Quarter 2005 Groundwater Monitoring Report, are available on GeoTracker (Global ID #T0601700077).

ATTACHMENT C

Boring Logs

A GROUND WATER CONSULTANCY BOREHOLE No. BH4/MW-4 Sheet 1 of Project No.: Date: 08/17 & 24/01 Drilling Co. V&W Drilling Drill Model Mobile B-4 Client: The Customer Company Drilling Method-Rotary Auger Borehole Diameter 9.2 Location: Across Patterson from former Cheapert #182 Einished Well Rim Elevation, 1742 61 Datum: ground si	2
Project No.: Date: 08/17 & 24/01 Drilling Co. V&W Drilling Drill Model Mobile B-1 Client: The Customer Company Drilling Method-Rotary Auger Borehole Diameter 9.2 Location: Across Patterson from former Cheaper! #182 Einished Well Rim Elevation 1742.61 Datum ground si	
Client: The Customer Company Drilling Method-Rotary Auger Borehole Diameter 9.2	51 '
Location: Across Patterson from former Cheaperl #182 Finished Well Rim Elevation, 1742.61 Datum: ground si	25-in
	urface
130 Pleasant Valley Road, Diamond Spgs, CA Borehole BH4 was completed as a monitoring well MW-4.	
Logged by: GDL Sample and cuttings log.	
Water Level 23.10 16.69	
ੁਝੂ ≿ੂ Time 12:23 9:40	
플로 등 문 문 문 문 문 문 문 문 문 문 문 문 문 문 문 문 문 문	
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8-in stree Range of arrow - solid stem auger drilling. 5.5 inch	t box
1 reamed to 7.25 inch Neat Cement 2 1 1	Prout 2-inch
4 Brownish yellow 10YR 6/8 sandy to gravelly clayey silt/	cas
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Bentonite	Seal
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Brownish yellow 10YR 6/8 clayey gravelly fine to	ings
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First Encountered Water at 23.1 Feet.	
Vollowich brown 10VD 5/9 ailty aloyou find to medium cond	
24 Yellowish brown 10YR 5/8 silty clayey fine to medium sand.	
24 25 25	
24 25 26 Yellowish brown 10YR 5/8 silty clayey fine to medium sand. ▼ Yellowish brown 10YR 5/8 silty clayey fine to medium sand.	
24 Yellowish brown 10YR 5/8 silty clayey fine to medium sand. 25 Yellowish brown 10YR 5/8 silty clayey fine to medium sand. 26 Yellowish brown 10YR 5/8 silty clayey fine to medium sand. 27 LONESTAR No. 3	Sand

							Location:	Across Pattersor	n from former Che	eaper! #182	
							130 Plea	asant Valley Roa	ad, Diamond Spgs	s, CA	
l nts	1							В	OREHOLE No.	BH4/MW-4	Sheet 2 of 2
npling vcour	10V/	, ,	aldı	nple ber	phic bol	SS					
San Blov	HNL FID	Dep test	Sam	Soil San Nun	Grag Syrr Syrr	Soil Syn		Field	Soil Description		
					-		Vory clightly was	athorad to upwor	athored slate		
		-29-					very slightly wea				
		-30-			-				Total V	Vell Depth = 30.	38 Feet. PLUG
		-31-								(below reference	ce mark)
		20			Total Dep	oth 31.1	Auger refusal at	31.1 feet.			
		-32-			(below g	rade)					
		33-			-						
		-34-			-						
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	ΗÇ	, O	G	EC]]										
A	GROUN	D wat	ER (CONSU	LTANCY				BOREHOLE	No.	MW-5	5	Shee	t 1 of _	2	_
Project	No.:		Date	e:	12/03/	01		Drilling	Co. V&W Dr	illing		Drill M	odel	Mobile B	-61	-
Client:	The Cus	tomer	Com	ipany			#4.00	Drilling	Method-Rotar	y Auger	4740.7	Boreh	ole Diar	neter <u>9</u>	.25-in	-
Localio	n: Acros	s Palle	erson			reaper	#162	Finishe	a weii Rim Ei	evalion	1743.70		Datum	ground :	sunace	_
	130 Plea	asant \	/alley	/ Road,	Diamor	nd Spgs,	CA	Boreho	le was comple	ted as a	a monito	oring w		5.		
Logged	by: 0	JDL					Water	Level	15.00	Sampl	e and cl	uttings	log.			
ts	RY						Time		10:00							
npling vcoun	OVEI	ţ	ple	iple ber	phic	SS	Date		12/9/2001							
Sarr Blov	REC	Dep test	Sam	Soil Sarr Nun	Gra Soil Syn	Soil		F	ield Soil Desc	ription (all conta	acts un	certain)			
														8-in str	eet box	
		-1												Neat Cemen	t Grout	
		-2													_	
		-3														
		_1														N
		-													_	-inc
6		5 -				CL/ML	Reddis	h yellow	7.5YR 6/6 gra	velly sa	andy silty	/ clay/c	layey s	ilt.		h P/
7		-6	-					No odo	r.						_	/C 0
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2		10-	-				Dark ve	ellowish	brown 10YR4/	6 grave	llv sand	v siltv o	clav.			Ĵ.
2		-11-						No odo	r.	•			<i>.</i>			
4		-12-				CL								Bentoni	te Seal	
		12														
		-13-	-													1 [
		-14-				?										
16		15–					Strong	brown 7	5YR 5/8 verv	sandv o	aravelly s	silty cla	v/clave	v silt		
50/4-in.		-16-	F			CL/ML		No odo	r.		,		<i></i>	,		scre
		17														en c
	<u> </u>	17			- \$	~										pen
		-18-				-?-										ings
		-19-			1											= 0
50/2-in		20-			-		White 8	B/1 (due	to rock dust) v	ariably	weather	ed to u	Inweath	iered		.020
		-21-			1		5511310	00 100K.	io not na	a biedi		anuy t				incl
			F		-								LON	ESTAR No. 3	3 Sand	5
		-22-			-											
		-23-			1											
	\vdash	-24-	<u> </u>		-											
		-25-	F		1		140.1				.,					
50/2-in,		20	┣──		-		vvhite 8 schisto	s/1 (due se rock.	to rock dust) w Where not ha	ariably rd breal	weather ks into s	ed to ι andy c	unweath layay s	iered ilt. No odo	or. 🗸	
		-20-]						First End	countered	d Water at	26± Feet.		
		-27-														
		-28-														

							Location: Across Patterson from former Cheaper! #182	
							130 Pleasant Valley Road, Diamond Spgs, CA	
Its							BOREHOLE No. MW-5 Sheet 2	2 of 2
pling	FID VOVP	, ₽	ble	iple iber	bol	s; lod		
Sam Blow	PID/ HNu read	Dep	Sam	Soil Sam Nurr	Grag Soil Sym	USC Soil Sym	Field Soil Description	
		1		<u> </u>	_			
		-29-			-			
50/1 in		-30-]		Total Well Depth - 29.85 Feet	PLUG
50/1-111,		_21_			Total Dep	oth 30.4	(below reference mark)	
		51			(below g	rade)	White 8/1 (due to rock dust) variably weathered to unweathered	
		-32-					Auger refusal at 30.4 feet.	
		-33-	-		-			
		-34-			_			
		25			-			
		-22-			1			
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A	III € GROU		UT TER	CONSU					BOREHOLE	No.	MW-6	Shee	et 1 of _	2	
Project	No.: The Cu	istomer	_Dat	e:	12/04/0)1		Drilling	Co. V&W Dri	lling / Auge	Dr Pr Br	ill Model	BK81	25-in	-
Locatio	n: Form	er Che	aper!	#182				Finishe	ed Well Rim Ele	evatior	<u>,1744.4</u> 4	Datun	n: around :	surface	-
	130 Pla	asant \	/allev	Road	Diamon	d Spas	CA	Boreho	le was comple	ted as	a monitorir		-6		-
	hu		vane	y Rodu,	Diamon	u opys,	, 0/(Dorone		Comp			0.		
Loggeo	by:	GDL					Water	evel	14.35	Samp	ble and culli	ngs log.			
(A)	≻.						Time		0.53						
ling	VER et	-	e	le er	o je	~ -	Data		12/0/2001						
Samp	ECO	Depthest	Samp	Soil Samp Numb	Soil Soil	JSC5 Soil	Date		12/9/2001	intion	(all contact		\ \		
0, 11	R			0,0,2				1	leiu Soli Desci	ιριιοπ	(all contact	s uncertain). 8-in str	eet box	
		-1–	_										Next	1.0	
		2											Neat Cemen	t Grout	
		-3-												_	
		-4-													Ņ
		F													inch
		5					Dark ye	ellowish	brown 10YR 4	/6 silty	clay.				PZ
		-6-						NO OUC	л.					_	Co
		-7-													asir
		0												_	lg a
		-0-													nd s
		-9-													cre
		-10-	_				Dork	llowich	brown 10VP4/	e arou		ilty olay			en.
		11					Dark ye	No odd)r.	o grave	elly saliuy s	iity clay.		_	
						CL				Driller br	oke 2-inch irrig	ation main obc	Bentoni	te Seal	
		-12-								Diffici bi	one 2 mon mig		ung r Ew.		
		-13-													
		11													
									Measured Wate	er Level.	First Encounte	red Water Not	Noticeable		
		-15-					Dark ye	ellowish	brown 10YR4/	6 grave	elly sandy s	ilty clay.			
		-16-					<u> </u>	No odo	or.						
		L17_													
		40													
		-18-													
		-19-													scre
		20-					Dark ye	ellowish	brown 10YR4/	6 grave	elly sandy s	ilty clay.			ěn
		20					<u> </u>	No odo	or.						oper
		-21-		1											ning
		-22-										LON	ESTAR No. 3	3 Sand	I S
		23-				-?-									0.0
					-		<u> </u>								20 ii
		-24-													nch
		-25-			-		Grav N	6/ varia	bly weathered t	o unw	eathered sl	ate.			
		26-			1			No odd)ř.	5 011W	Samered Sh				
		~~~			-		<u> </u>								
		-27-													
		L28		1		l	L								

							Locatio	on:	Forme	r Cheap	oer! #18	32						
								130 Pl	leasant \	/alley R	Road, D	iamond	d Spgs	s, CA	4			
) nts	4										BORE	HOLE I	No.	Ν	1W-6		Sheet	2 of 2
nplinç wcoui	/FID u/OV/ ding	, <del>5</del>	nple	nple	phic nbol	SCloqu												
Sar Blo	E N D E N D	Der test	Sar	Soi Nur Nur	Soi Syr	Soi Soi				Fiel	ld Soil [	Descrip	otion					
		20			-													-
		-29-					0N	10/				- 41	-l -l - t -	_				
		-30-			-		Gray N	No odo	ably weat or.	inered t		eathered	a siate	e.				PLUG
		-31-			Total Dep (below g	rth 30.5 (rade)						Т	otal V	Vell (be	Depth low ref	= 30.3 erenc	37 Feet	
		32-				1								1				
					-													
		22			-													
		-34-			-													
		-35-			-													
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	BOREHOLE LITHOLOGIC LOG								
	ROBEHOLENS MW/JZ Shoot 1 of 2								
WATER CONCELLANCE	BOREHOLE NO. <u>NIV-7</u> Sheet 1 OI <u>2</u>								
Project No.: Date: <u>12/04/01</u>	Drilling Co. V&W Drilling Drill Model BK81								
Location: Former Cheaper! #182	Drilling Method-Rotary Auger Borehole Diameter 9.25-in Einished Well Rim Elevation1744-06 Datum: ground surface								
130 Pleasant Valley Road, Diamond Spos	CA Borehole was completed as a monitoring well MW-7								
Logged by: GDI	Sample and cuttings log								
[ <u>3300 5]. 001</u>	Water Level 12.77								
atr RY	Time 9:51								
wcour wcour cOVE heet heet heet heet heet heet heet hee	Date 12/9/2001								
Saria Sari	Field Soil Description (all contacts uncertain).								
	8-in street box								
	Neat Cement Grout								
4-+		2-in							
5	Dark vellowish brown 10YR 4/6 pebbly, fine to medium sandy, silty clay	ich F							
	No odor.	Š							
		casi							
		ng a							
CL CL		nd s							
9		cree							
3 10	Dark yellowish brown 10YR4/6 gravelly sandy silty clay.								
	No odor.								
12									
13									
14?-									
50/4-inch	White 8/1 (due to rock dust) variably weathered to unweathered								
	Bentonite Seal								
19									
20	White 8/1 (due to rock dust) variably weathered to unweathered								
36 20 50/4-inch 21	schistose rock. Where not hard breaks into sandy clayay silt. No odor.								
	LONESTAR No. 3 Sand								
-24									
50/3-inch 25	White 8/1 (due to rock dust) variably weathered to unweathered								
26	schistose rock. Where not hard breaks into sandy clayay silt. No odor.								

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							Location: Former Cheaper! #182	
							130 Pleasant Valley Road, Diamond Spgs, CA	
g nts	∢						BOREHOLE No. MW-7 Sheet 2 of 2	
nplinę wcou	V/FID u/OV, ding	, t	nple	l nple nber	tphic I mbol	nbol		
Sar Blo	HN FIC FIC	Det	Sar	Soi Nur Nur	Soi Syr	Soi Syr	Field Soil Description	
		20			_			
		-29-					White 8/1 (due to rock dust) variably weathered to unweathered	
50/5-inch		-30-					schistose rock. Where not hard breaks into sandy clayay silt. No odor.	
		-31-						3
		-32-			_			
		-33-			-		LONESTAR No. 3 Sand	2
		-34-						5
		25			_			
50/3-inch		-35-					White 8/1 (due to rock dust) variably weathered to unweathered	3
		-36-			-			
		-37-					¥	÷.
		-38-			_			
		-39-			_			
		-40-					First Encountered Water at 40± Feet.	
50/5-inch		41					White 8/1 (due to rock dust) variably weathered to unweathered schistose rock. Where not hard breaks into sandy clayay silt. No odor.	
		-41-			-			
		-42-			_			
		-43-			-			
		-44-						
FO/F is sh		-45-			_		Total Well Depth = 44.90 Feet.	UG
50/5-Inch		46			Total Dep	th 45.5	White 8/1 (due to rock dust) variably weathered to unweathered	
		47		-	(below g	rade)	schistose rock. Where not hard breaks into sandy clayay silt. No odor.	
		-4/-						
		-48-						
		-49-			-			
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	BOREHOLE LITHOLOGIC LOG								
A GROUND WATER CONSULTANCY	BOREHOLE No. MW-8 Sheet 1 of 2								
Client: The Customer Company	Urilling Co. V&W Drilling Drill Model Mobile B-61								
Location: Former Cheaper! #182	Finished Well Rim Elevation1743.62 Datum: ground surface								
130 Pleasant Valley Road, Diamond Spgs,	, CA Borehole was completed as a monitoring well MW-8.								
Logged by: GDL	Sample and cuttings log.								
	Water Level 13.33								
g ERY	Time 9:47								
mplin ww.cou. COVE feet feet aphic mbol mbol	Date 12/9/2001								
	Field Soil Description (all contacts uncertain).								
	Light olive brown 2.5Y 5/6 silty clay.								
	No odor. Neat Cement Grout								
4?-	·	2-in							
<u>3</u> 5	Dark brown 10YR 5/8 pebbly, fine to coarse sandy, clayey silt.	ch P							
	No odor.	VC							
		asir							
		ig ar							
		ld sc							
?-		reer							
3 10	Dark yellowish brown 10YR4/4 pebbly silty clay.	-							
13									
14									
15									
50/4-inch	White 8/1 (due to rock dust) variably weathered to unweathered schistose rock. Where not hard breaks into sandy clayay silt. No odor.								
	Bentonite Seal								
50/6-inch 20	White 8/1 (due to rock dust) variably weathered to unweathered								
-21									
	LONESTAR No. 3 Sand								
50/6-inch 25	White 8/1 (due to rock dust) variably weathered to unweathered								
	schistose rock. Where not hard breaks into sandy clayay silt. No odor.								
27									

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							Location: Former Cheaper! #182	
							130 Pleasant Valley Road, Diamond Spgs, CA	
g nts	∢						BOREHOLE No. MW-8 Sheet 2 of 2	2
mpling	0/FID u/O/ ding	t pt	nple	l nple mber	aphic I mbol	CS Thool		
Blo	PIC HN rea	Del	Sai	Soi Nu	Soi Soi	Soi Syi	Field Soil Description	_
		29			-			
		-29-					White 8/1 (due to rock dust) variably weathered to unweathered	
50/4-inch		-30-					schistose rock. Where not hard breaks into sandy clayay silt. No odor.	
		-31-					y	2
		-32-			_			reer
		- 2 2-					LONESTAR No. 3 Sand	g
		33 34						Phin
		-54-						
50/4-inch		-35-					White 8/1 (due to rock dust) variably weathered to unweathered	
		-36-					schistose rock. Where not hard breaks into sandy clayay silt. No odor.	20 ir
		-37-		<b></b>				
		-20-						
		50		_	_		I	
		-39-						
50/3-inch		-40-					White 8/1 (due to rock dust) variably weathered to unweathered	
		-41-					schistose rock. Where not hard breaks into sandy clayay silt. No odor.	
		-42-		<b> </b>				
		43			_		First Encountered Water at 43± Feet.	
		-44-					Total Wall Dopth - 44.00 East	
50/3-inch		-45-					(below reference mark)	LUG
		-46-			Total Dep (below g	oth 45.4 (rade)	White 8/1 (due to rock dust) variably weathered to unweathered schistose rock. Where not hard breaks into sandy clavay silt. No odor.	
		-47-		<b></b>				
		_48_						
		10			_			
		-49-						
		-50-						
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A	GROUN		UT ER	CONSL	<b>ا ا</b>	L <b>u</b> ¦ .NC`	L L Y			BOREHOLE N	۱o.	MW-9	)	_Shee	et 1 of	2			
Project No.: Date: 12/04/01									Drilling Co. V&W Drilling Drill Model Mobile B-61								-		
Client: The Customer Company									Drilling	Method-Rotary	/ Auger	r	Boreh	ole Dia	meter	9.25-in	_		
Location: Former Cheaper! #182									Finishe	ed Well Rim Ele	evation	1743.5	3	Datur	n: groun	d surfac	е		
	130 Ple	asant \	/alle	y Road	, Dia	amo	nd Spgs	, CA	Boreho	le was comple	ted as	a monito	oring v	vell MW	/-9.				
Logged	l by:	GDL									Sampl	le and ci	uttings	log.					
								Water	Level	12.93									
g ints	ΞRΥ							Time		9:45									
mplin wcou	COVE	t pth	mple	il mple mber	aphic	mbol	mbol TCS	Date		12/9/2001									
Blo	, RE	De tes	Sai	Na Soi	้ง ซึ่ง	ñ ñ	S S S S		F	ield Soil Descr	iption (	all conta	acts ur	ncertair	ı).				
		_1_													8-in :	street box			
		і О						-							Neat Cem	ent Grout			
		-2-			11)(														
		-3			H١														
		-4-			]												<u>2</u>		
		5 -															nch		
		5			-		CL/ML	Yellow	Yellowish brown 10YR 5/4 silty clay/clayey silt.										
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		-7-															sing		
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		10			]			Light y	ellowish No odo	brown 10YR 6	/4 claye	ey silt.							
		-11-					ML			<i>n</i> .					Bento	onite Seal			
		-12-			-														
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		_14_			Ш														
		15			-111		•												
		-10-			]			Browni	sh yello	w 10YR 6/6 cla	yey silt						SC		
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	$\left  \right $	-22-	-		-									LOI	NESTAR No	o. 3 Sand			
		-23-																	
		-21-	F																
	$\vdash$	24	$\vdash$		-							First End	countere	ed Water a	it 25± Feet.				
		-25-						White 8	3/1 (due	to rock dust) v	ariably	weather	ed to	unweat	hered				
		-26-	L					scnisto	se rock.	vvnere not hai	d brea	KS INTO S	andy	ciayay s	511t. NO O	aor.			
		-27-			4														
		-28																	
							Location: Former Cheaper! #182												
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							130 Pleasant Valley Road, Diamond Spgs, CA												
ts							BOREHOLE No. MW-9 Sheet 2	of 2											
pling coun		, 	ple	ple	bic Do	0 0													
Sam	PID/F HNu/ readi	Dept	Saml	Soil Saml Numl	Grap Soil Symt	Soil	Field Soil Description												
						1													
		-29-			-														
		20-			_														
		50			-		Total Well Depth = 30.52 Feet.	PLUG											
		-31-			Total Dep	oth 31	White 8/1 (due to rock dust) variably weathered to unweathered												
		-32-			(below g	(rade)	schistose rock. Where not hard breaks into sandy clayay silt. No odor.												
		22-																	
		55			-														
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Project N	No.:		Dat	e:	12	2/04/0	01		Drilling	Co. V&W Dri	lling		Drill N	lodel	BK81		+ -
Client: 1	The Cu	stomer	Con	npany					Drilling	Method-Rotary	/ Auge	r	Boreł	nole Dia	meter	9.25-in	
Location	: Forme	er Che	aper	#182					Finishe	ed Well Rim Ele	evation	1743.7	0	Datun	n: grour	nd surfac	e
	130 Plea	asant \	Valle	y Road	, Dia	amor	nd Spgs,	CA	Boreho	le was comple	ted as	a monit	oring v	vell MW	-10.		
Logged I	by:	GDL						T		1	Samp	le and c	uttings	log.			
								Water	Level	12.93							
g Ints	ΞRΥ							Time		9:45							
mplin wcou	COVE	t pth	mple	il mple mber	aphic	ii mbol	CS mbol	Date		12/9/2001							
Bic Sa	REC	De	Sa	NuSa	ŏ	δδ			F	ield Soil Desci	iption (	(all cont	acts u	ncertain	).		
		_1_													8-in	street box	1.1
		י ר													Neat Cer	ment Grout	
		-2-															
		-3															
		-4															Ņ
		- F -					CL										inch
6		5					OL.	Dark ye	ellowish No.odc	brown 10YR4/	4 silty o	clay.					P
10		-6-							No oue								0 00
		-7-															asing
		-8															y an
							$\lfloor 2 \rfloor$										d sc
		9					f										reer
3		-10-						Light y	ellowish	brown 10YR 6	/4 fine	to coars	e sano	dy claye	y silt.		-
3		-11-			-				No odd	or.					Ben	tonite Seal	
		-12-			]												
		_13_															
		-13-															
		-14-					?	-									
3		-15						Dark ye	ellowish	brown 10YR4/	4 fine t	o coarse	e sand	y silty cl	ay.		(0)
8		-16-							No odo	or.							scre
12		_17_	$\vdash$				CL										en o
$\vdash$		40						<u> </u>									pen
		-18-															ings
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A		20-	F		]			Light	ellowich	brown 10VD c	/4 fine	to coora	0 000	ty clave	v silt		.02(
4		-21-							No odc			U UUAIS	o sail	ay ciaye	y Siit.		) inc
10		~ 1	$\vdash$		-			<u> </u>						1.01		No. 3 Sand	÷
		-22-												201			
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		-24-			]		IVIL										
		-25-	$\vdash$														
4		20	$\vdash$		-			Light y	ellowish No odc	brown 10YR 6 or.	/4 fine	to coars	e san	dy claye	y silt.		
9		-26-															
$\vdash$		-27-	$\vdash$		$\parallel \parallel$												
		-28					J										



ľ	Ľ.		$\cap$	ጉ <i>(</i>				В	OREHO	LE L	ITH	OLC	OGIO	CLO	G	
A	GROUI		UT ER (	LL CONSU					BOREHOLE	۱o	MW-1	1	Shee	et 1 of	2	
Project	No.:		Date	e:	12/04/0	)1		Drilling	Co. V&W Dr	lling		Drill M	lodel	BK81		
Client:	The Cu	stomer	Corr	npany				Drilling	Method-Rotar	/ Auger		Boreh	ole Dia	meter	9.25-in	
Locatio	n: Form	er Chea	aper!	#182				Finishe	ed Well Rim Ele	evation1	742.70	)	Datum	n: ground	d surfac	е
	130 Ple	asant \	/alley	y Road,	Diamon	d Spgs,	CA	Boreho	le was comple	ted as a	a monito	ring w	ell MW	-11.		
Logged	l by:	GDL								Sample	e and cu	ttings	log.			
							Water	Level	11.38							
g nts	RΥ						Time		9:32							
mplin wcou	COVE	t pt	nple	l nple mber	rphic I mbol	CS nbol	Date		12/9/2001							
Sar Blo	REC	Del	Sar	Soi Sar Nu	õõi õõi	Soi Syr		F	ield Soil Desci	iption (a	all conta	cts un	ocertain	).		•
		1												8-in s	street box	
														Neat Cem	ent Grout	
		-2-														
		-3-														
		-4-														Ņ
		- F				CI										inch
		5				0L	Reddis	h yellow No odc	/ 7.5YR 7/6 silty or.	/ clay.						PVO
		-0-														Ca
		-7-														sing
		-8-				-?-										ano
		_q_														l scr
		10														een.
		10					Browni	sh yelov	v 10YR 6/6 silty	/ clay.						
		-11-				CL		110 040						Bento	onite Seal	
		-12-														
		-13-				2										
		_14_				•										
		15														
		-10-		[		CL	Dark ye	ellowish No odc	brown 10YR4/	4 fine to	coarse	sandy	/ silty cl	ay.		sc
		-16-														reer
		-17-														op
		-18-				_?_	Vorud	ork arou	ich brown 2 FV	2/2 +0 -1	lark are:	/ NI4 / -		,		enin
		_19_						No odc	ish biowii 2.31 )f.	J/2 10 U	ain yidy	1114/ 5	Sity Cidy	/		gs =
																0.0
		-20-		İ			Light g	ray N7/	silty clay.							20 ii
		-21-				CL			n							ιch
-		-22-		+									LON	IESTAR No	o. 3 Sand	
		-23-														
			⊢													
		-24-				~ <b>~</b> ~										
		-25-			1		Gray to	dark gr	ay N4-N5/ vari	ably wea	athered	to unv	veather	ed slate.		
		-26-			-			No odc	or.							
		-27-			1						First Enc	ountere	d Water a	t 27± Feet.	$\nabla$	
		28														

							Location: Former Cheaper! #182	
							130 Pleasant Valley Road, Diamond Spgs, CA	
l Its	1						BOREHOLE No. MW-11 Sheet 2	2 of 2
pling	10 V/	÷	aldr	nple ber	phic bol	SS		
San Blov	PID HNu read	Dep test	San	Soil San Nun	Gra Soil Syn	USC Soil Syn	Field Soil Description	
		~~						
		-29-						
		-30-					No odor. Total Well Depth = 30.53 Feet.	PLUG
		-31-			Total Der	oth 31	(below reference mark)	l
		-32-			(below g	rade)		l
		-22-						l
		22			_			l
		-34-			-			l
		-35-						l
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	$H_{-} \cap$	ΓF			E	BOREHO	LE LIT	HOLO	GIC	LOG	i	
	GROUND WAT	ER CON	SULTANCY			BOREHOLE	√o. <u>M\</u>	V-12	Sheet 1	of	2	
Project N	lo.:	Date:	12/04/01		Drillin	g Co. V&W Dri	lling	Drill Mo	del M	obile B-	-61	
Client: T	he Customer	_ Compan	у		Drilling	Method-Rotar	/ Auger	Boreho	le Diame	ter 9.	25-in	_
Location:	Across Patte	erson fror	n former Che	aper!	#182 Finish	ed Well Rim Ele	evation174	1.74	Datum <u>: g</u>	round s	surface	Э
1	30 Pleasant	Valley Ro	ad, Diamond	Spgs	, CA Boreh	ole was comple	ted as a mo	onitoring we	II MW-12			
Logged b	y: GDL						Sample an	d cuttings lo	og.			
					Water Level	11.38						
g nts	RY				Time	9:24						
npling wcou	the	nple nple	phic phic	2_ lodi	Date	12/9/2001						
Blo	Lest Cest	Sar Soil Sar	Nur Gra	Soil Syn		Field Soil Desci	iption (all c	ontacts unc	ertain).			
					Dark yellowish	brown 10YR4/	4 fine to coa	arse sandy :	silty clay.	8-in stre	et box	
				CL	No od	or.			Nea	at Cement	Grout	
	2_			-2-								
	3			f							_	
	4_											Ņ
	F											inch
50/4-inch	- 5				Very pale brow breaks to fine	vn 10YR 8/3 ve to coarse sand.	ry weathere No odor.	d schistose	rock that	t	_	PVQ
												C ca
	7_											sing
	8										_	anc
												1 scr
											_	een
50/2-inch	10				Very pale brow	vn 10YR 8/3 ve	ry weathere	d schistose	rock that			
	11-									Bentonit	e Seal	
	12_											
	13-											
	14-											
	15										_	
50/6-inch					Very pale brow	vn 10YR 8/3 ve	ry weathere	d schistose	rock that	t		sc
	16-					to obtaile build.	. 10 0001.					reer
				~	<u> </u>							ope
												ening
							Firs	st Encountered	Water at 19±	⊧ Feet.		= sc
												0.0
50/6-inch	$-\frac{20}{2}$		$\neg$		Gray to dark g	ray N4-N5/ vari	ably weathe	ered to unwe	eathered	slate.		20 in
	21-											Ċ
	22-								LONES	TAR No. 3	Sand	
	23-		$\neg$									
$\left  \right $		$\vdash$									_	
50/6-inch					Gray to dark g	ray N4-N5/ vari	ably weathe	ered to unwe	eathered	slate.		
	26-											
	27-											
	28											

							Location:		Acros	ss Patt	terson	from fo	rmer Ch	neap	oer! #182		
							13	30 PI	leasant	t Valley	y Road	l, Diam	ond Spg	gs, C	CA		
l Its	1										во	REHO	LE No.		MW-12	Sheet	2 of 2
npling	VOV#	, ₽	ble	ple	ohic Ibol	SS lod								-			
Sarr Blov	HNL FID	Dep test	Sarr	Soil San Nun	Grag Syrr Syrr	USC Soil Syr				F	ield So	oil Dese	cription				
					_												-
		-29-			_												
50/5-inch		-30-	┢		-		Gray to da	lark g	gray N4 Ior	I-N5/ va	ariably	weathe	ered to u Total	unwe Wel	eathered s	late. 30.21 Feet	PLUG
00/0 11011		-31-			Total Dep	th 30.5		0 00	.01.				Total	(b	elow refer	ence mark)	1 200
		<u> </u>	<u> </u>		(below g	rade)											-
		-32-			_												
		-33-			-												
		-34-		<u> </u>	-												
		35			-												
		-55-			_												
		-36-			_												
		37-	<u> </u>	<u> </u>	-												-
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	$\neg \cap \cap \mathbb{P}^{i}$		BOREHOLE LITHOLOGIC LOG	1
A GROU	ND WATER CONS		BOREHOLE No. <u>MW-13</u> Sheet 1 of <u>2</u>	
Project No.:	Date:	02/11/02	Drilling Co. V&W Drilling Drill Model Mobile B-61	
Client: The C	ustomer Company		Drilling Method-Rotary Auger Borehole Diameter 9.25-in	
Location: Acro	oss Patterson from	former Cheaper!	#182 Finished Well Rim Elevation Datum: ground surface	
<u>130 PI</u>	easant Valley Roa	d, Diamond Spgs	s, CA Borehole was completed as a monitoring well MW-13.	
Logged by:	GDL		Sample and cuttings log.	
			Water Level 6.58	
g ⊔nts ERY			Time 10:28	
mplin wcou feet	mple th mble th mble th	aphic mbol ii mbol	Date 3/2/2002	
RE( Bo	Na sa	୍କୁର୍ଜୁ ଧୃତ୍ତୁ	Field Soil Description (all contacts uncertain).	
	1	SC	8-in street box Dark brown 10YR 3/3 clayey gravelly sand. First Encountered Water at 1.5 Feet.	
			No odor.  V Perched water in surfacial gravels.	
	-3		Neat Cement Grout	
	-4	_		2.
	5			nch
			Reddish yellow 7.5YR 6/6 gravelly sandy clayey silt with abundant large fragments weathered rock. No odor.	PVC
				cas
	-7			sing
2	-8			and
3	-9		Namu dayla arayiah haaya 2.5 V 2/2 aarah alayay aik Dadagartia asil	scre
4	<u> </u>	D ML	with root filaments. No odor.	en.
3	10		Dark olive grav 5Y 3/2 gravelly sandy clavey silt. No odor.	
9			Bentonite Seal	
50/6-inch	12		Brownish yellow 10YR 6/8 clayey sandy silt. No odor.	
	-13	ML		
	-14			
26 50/5-inch	15			
			Yellowish brown 10YR 5/6 sandy silt with preserved slate structure. No odor.	
30	10			
50	+17			
50/5-inch	-18	-		S
	19	$\exists$		cree
		-		n og
20 50/5-inch		-	Gray to dark gray N4-N5/ variably weathered to unweathered slate.	venir
	+21++++			s sbu
50/4-inch	-22	-	LONESTAR No. 3 Sand	= 0.(
	-23	$\neg$		)20
				inch
50/5-inch		-		
	25	$\exists$	Gray to dark gray N4-N5/ variably weathered to unweathered slate.	
	26			
	-27	-		

							Location	:	Sou	th end	lot ac	ross P	atterso	on fror	n forme	er Chea	aper! #18	2
							1	130 F	Pleasa	nt Valle	ey Roa	ad, Dia	mond	Spgs,	CA	_		
g ints	۷										B	OREH	OLE N	lo.	MW-	13	Sheet	2 of 2
mpling	0/FID u/OV ding	t bt	mple	l mple mber	aphic I mbol	nbol CS												
Sar Blo	E HN E	Del	Sai	Sai Nu	S S G	Soi Syr					Field S	Soil De	escriptio	on				
		29			-													
		-29-					Grav to c	dark	aray N	14-N5/	variahl	v woo	thered	to un	weathe	rod ela	to	
50/3-inch		-30-					N	No oc	dor.	I4-INJ/	vanabi	y wea	linereu	to un	weattle			
		-31-			Total Dep	oth 31.0							To	tal We	ell Dept	:h = 30	.96 Feet.	PLUG
		-32-			(below g	rade)									(below	referer	nce mark)	
		-33-																
		34			-													
		21																-
		-35-	L		1													
		-36-																
		-37-																
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ſ	Ц	$\neg \cap$	C	F	7	T		]			В	OREHO	LE	LITH	OL	OGIC	C LO	G	]
A	GROU		UT TER	CONSL	ر JLT.	<b>I</b> L AN		]				BOREHOLE N	No.	MW-	14	Shee	t 1 of	2	_
Project	No.:		Dat	e:	0	2/*	18/	02			Drilling	Co. V&W Dri	lling		Drill N	lodel	Mobile	B-61	-
Client:	The C	ustome	r Cor	npany							Drilling	Method-Rotar	/ Aug	er	Boreh	ole Dia	neter	9.25-in	
Locatio	n: Acro	ss Patt	ersor	n from f	orn	ne	r Cl	hea	per!	#182	Finishe	d Well Rim Ele	vatio	n		Datum	: groun	d surface	e
	130 Pl	easant	Valle	y Road	I, D	Diar	moi	nd \$	Spgs	s, CA	Boreho	le was comple	ted as	s a monit	oring v	ell MW	14.		
Logged	l by:	GDL											Sam	ple and c	uttings	s log.			
										Water I	Level	10.61							
ts	RY									Time		10:24							
npling vcou	OVE feet	÷	aldu	nple nber	phic		lodr	S	lodr	Date		3/8/2002							
San Blov	REC	Dep test	San	Soil San Nun	Gra	Soil	Syn	USU N	Syn		F	Field Soil Desci	ription	(all cont	acts ur	ncertain	).		
					╢	$\prod$		₁	ИL	Dark ve	ellowish	brown 10YR 4	/6 ara	velly san	d⊽irstl≢	ncountere	8-in s d Water at	street box 1.5 Feet.	
		1-1-			ļ	Ш	Ш				No odo	r.	- gru	y our				V	
		-2-							SM	Dark ye	ellowish	brown 10YR 4	/6 silty	y gravelly	Perc sand.	ned water	in surfacia	u gravels.	
		-3-							CIVI		No odo	r.					Noot Com	opt Crout	
																	Neal Celli	eni Gioui	Ņ
					╢					Dark ye	ellowish No odo	brown 10YR 4 r.	/6 gra	velly san	dy silt.				inch
		5-	-					ľ	ИL										PV
		6-			╢														Co
		-7-			╢					Yellow	10YR 7	/8 weathered s	chisto	ose rock t	hat bro	eaks to	bebbly s	ilt.	asing
		8						ľ	ИL		110 000								g an
					╢													_	d sc
		-9-			Щ	Ш				<u> </u>									reer
50/2-inch		10								Very pa	ale brow	n 10YR 8/3 we	ather	ed schist	ose ro	ck that			
		-11-			_					breaks	No odo	r.					Bento	onite Seal	
		_12-															Donie	onito odul	
		12			-														
		-14-																	
		-15-			+			1											
		-16-			1			1											
		_17_						1											
					4			1		Dry abo	ove fract	ture		First For	ountere	d Water at	18± Feet		
		-18-								Fractur	e interv	al. Very pale br	own 1	10YR 8/3	very v	veathere	d schist	ose	SCI
		-19-	+		f			1		rock br Dry bel	eaks to ow fract	tine to coarse s ure.	sand.	INO ODOr.					reen
		-20-								Vervin	ale brow	n 10YR 8/2 w/	athor	ed echiet	nse ro	ck that			op∈
										breaks	No odo	r.	autel	54 3011131	000 10	on unat			ning
			-		+					<u> </u>						LON	IESTAR N	o. 3 Sand	= sc
		-22-								<u> </u>						201			0.0
		-23-			┥														20 ir
		-24-			7														лсh
		25																	
					4			1		Very pa	ale brow	rn 10YR 8/3 we r.	eather	ed schist	ose ro	ck that			
		-26-						1											
		-27-			┥														
		$L_{28}$																	

							Location: South end lot across Patterson from former Cheaper! #182	2
							130 Pleasant Valley Road, Diamond Spgs, CA	
ts							BOREHOLE No. MW-14 Sheet 2	2 of 2
pling /coun	FID /OVA	- -	ple	ple	bol	လ စြ		
Sam Blow	PID/ HNu read	Dept	Sam	Soil Sam Num	Grap Soil Sym	USC Soil Sym	Field Soil Description	
					_			
		-29						
		-30-					Very pale brown 10YR 8/3 weathered schistose rock that breaks to fine to coarse sand. No odor	
		31-						PLUG
		2			Total Dep (below g	oth 31.0 grade)	Total Well Depth = 30.76 Feet. (below reference mark)	
		-32-						
		-33-						
		-34-						
		35						
		20						
		-36-						
		-37-						
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		ER CON	รมเ	/ <b>  </b> _TAT_	ארא אכא	,	E	BOREHOLE N	lo.	<u>MW-15</u>	Sheet ?	1 of	2	
Project No.: Client: The	Customer	Date: Compan	ıy	08/	13	& 16/03	Drilling C	Co. V&W Dri Nethod-Rotary	lling / Auge	Drill Model: r/Air Bor	C <u>ME-BK81</u> ehole Diame	HD &	Mobile E 6-in	3-80
Location: Fo	ormer Che	aper! #18	32				Finished	Well Rim Ele	vation		Datum <u>: c</u>	ground	l surface	<u>)</u>
130	Pleasant	Valley Ro	ad,	Dia	mo	nd Spgs	s, CA Borehole	e was complet	ted as	a monitoring	well MW-15	j.		
Logged by:	GDL	Property	/ to	eas	t al	ong Patt	erson Drive Water Level	16.52	Samp	le and cuttin	gs log.			
st ts							Time	14:36						
npling wcoun SOVEI	oth Teet	nple nple	nber	phic	loqu	CS nbol	Date	8/19/2003						
Sar Blo	Dep	Sar Soil Sar	ž	Soil Soil	ŝ	Soil Soil	Fie	eld Soil Descr	iption	(all contacts	uncertain).		ToC	-0.29
	1									Well compl	eted with 8-inch	flush typ	be cover.	
							Olive vellow 2.5	Y6/8fine to me	odium	sandv silt	Ne	at Ceme	ent Grout	
	+2-					ML			Julum	Sandy Silt.				
	3													
	-4-													2-
	- 5 -						D ( (1)							nch
22 50/4-in	6_				Ш		Base of fill. Dark yellowish b	rown 10YR 4	/4 and	(not mottled)	very pale b	rown		PVC
							10YR 8/4 Fragmer	4 weathered s	schisto ilt	se phase roo	xk.			cas
	/_													sing
	8													and
	-9-													scre
							Como oo ohouo							en.
50/5-in	<u> </u>						Same as above.							
	12					ML								
	13-													
50/3-in	-15-			1								Boote	nito Soci	
30/3-11	16-											Denio	inte ogai	
	17													
		$\square$	_	$\left\  \right\ $										
	18-						Third auger hole	TD 18 total r	efusal	within 150 so	quare foot ar	ea.		
	19-						Borenole continu	ued with rotar	y air ha	ammer drillin	g			
	-20-	+		1			Variably weather	red schistose	rock o	ontinues to c	lifferent dept	ths		
				1			within the	e 150 square	foot w	ork area.				scree
		$\vdash$		1										en o
		$\vdash$					Second auger he	ole TD 22.5 to	otal ref	usal.				peni
	-23-			1										ngs :
	24-								,					= 0.(
	-25-					н Кх	⊢ırst auger hole	ID 24.5 total	refusa	I				<u>)</u> 20 i
	-26-	$\square$		-			Light greenish g	ray 10GV 7/1	dilatt-	and chlorite	bearing			inch
	-27-						schistose	e phase rock.	44412					
	<u> </u>										LONES	IAR No	o. 3 Sand	



<b>F</b>			Г			BOREHOLE LITHOLOGIC LOG	
	H2(	16	El				1
A G	ROUND W	ATER	CONSU	LTANCY		BOREHOLE No. <u>MW-16</u> Sheet 1 of <u>2</u>	
Project No	0.:	Dat	te:	09/25/	03	Drilling Co. V&W Drilling Drill Model CME 850	
Client: Th	he Custome Former Ch	er Cor	mpany			Drilling Method-Rotary Auger Borehole Diameter 6-in	
13	30 Pleasan	t Valle	w Road	Diamor	nd Spas	rinsince were time leveled as a monitoring well MW-16	
Logged by	v [.] GDI	vanc	y nodu	, Diamoi	id opga	Sample and cuttings log	
						Water Level 14.01 6-in 'stove	e-pipe'
nts	К					Time 15:53 Height	
wcou	t feet	mple	l mple mber	aphic I mbol	CS Thol	Date 9/25/2003 2.80 Ft. 0.	.04 Ft.
Blo		Sa	Nu Sa	ซ็ดิดิ์ ๅ	S S S	Field Soil Description (all contacts uncertain). 2.76 Ft.	
					ML	Very pale brown To YR 8/4 granuley silt. Neat Cement Grout	
							2-ir
			-			Transitional change from 'soil' to weathered rock.	ich P
	4-			-			VC.
20,26,35	5						casin
	6					Yellow 10YR 7/6 and light yellowish brown 10YR 6/4 weathered	ig an
	7-				WKX	along crushed fracture traces.	ld sc
	8-	-	-	-			reen
	9-			-			
20, 20/2 1-						Vallow 10VP 7/6 and light vallowish brown 10VP 6/4	
38, 38/2-In.						weathered rock. Fragments to sandy silt. Strong brown 7.5YR 5/8	
	12	_			_	along crushed fracture traces.	
	13			_	wRx	C First Encountered Water at 13± Feet.	
	13						S
		—					reer
45/2-In.	15					Decreasing weathering, variably hard weathered rock.	ope
	16			-		LONESTAR No. 3 Sand	ning
	17			1			s = 0
$\left  - \right ^{-}$		+	<u> </u>	-			).020
	19	F		-			) inch
45/3-In				1		Pale vellow 5V 6/3 weathered schiet	2
-0/0-111.			1	1	wD:		
				1	WKX		PLUG
	22			Total De	epth 22.3	Hard rock.         Total Well Depth = 24.84 Feet.           3 No further advancement.         (below reference mark)	
	23		-	(belov	v grade)		
	<u></u> 24	$\square$	<u> </u>	1			
	25		1	1			
	26			1			
	27	╘		_			
	28	3	1		l		

							Locatio <u>n:</u>		Forme	r Chea	per! #1	182			_		
							13	30 Ple	easant '	Valley I	Road,	Diamo	nd Spgs	s, CA	-		
g ints	۲.										BOR	EHOLE	E No.	MW-18	8	Sheet	2 of 2
implin owcou	D/FID Nu/OV ading	apth	umple	umble umber	aphic ui mbol	sCS ii mbol											
ů Ħ	ΞΞĕ	ţ	ŝ	ທິທິ <del>ຊ</del> ັ	ບັນດີ	ട്ര്ര്				Fie	eld Soil	Descr	iption				
		-29-			-	Rx								LONES	TAR No	. 2/12 Sand	
		-30-	_		1		Very hard	d slate	э.				Total W	/ell Depth	n = 31.	96 Feet.	PLUG
		21			Total Dep (below g	oth 30 grade)								(below re	eteren	ce mark)	
		27			-												
		-32-	_		-												
		-33-			-												
		-34-			1												
		-35-															
		-36-			-												
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			<u>ה</u> ר		]	1	В	OREHO	LE	LITHOI	OGI	C LO	G	
	120	U I	ιU	╵╨┙╏	]									1
A G	ROUND WAT	ER CC	DNSUI	LTANCY	,			BOREHOLE N	lo.	MW-17	Shee	et 1 of	2	_
Project No	o.:	Date:		09/23/	03	C	Drilling	Co. V&W Dri	lling	Dril	I Model	CME 8	350	
Client: Th	ne Customer	Comp					Drilling	Method-Rotary	Auge	r Bor	ehole Dia	meter	6-in	
12			Pood	Diamo	nd Spac		Porobol		od oc			11 <u>. 910011</u> 1 1 7	u sunac	
		valley	Nuau,	Diamo	nu opys	, CA L	SOLELIO	e was complet	Samn			-17.		
Logged b	y. ODL					Water Le	evel	12.55	Samp		igs log.		6-in 'st	ove-pipe'
tt i	X					Time		15:52					Height	
vcour	theet	aldr	nbler	phic Ibol	SS	Date		9/25/2003					2.80 Ft.	0.18 Ft.
Blov	Dep test	San Soil	San Nur	Soil Syn	Soil		Field	Soil Description	on (all	contacts und	ertain).		2.62 Ft.	
	1_			IIIIII										
		$\vdash$				Yellowis	h brow	n 10YR 5/8 sai	ndy gra	anuley silt.		Neat Cem	ent Grout	2-inc
		$\square$			IVIL									h PV
	3	$\square$												C ci
	4_			<u></u>	-?-									asing
5,8,15	5-					White 51	<u>/ 8/2</u> sa	andy granuley	clayey	silt.				) and
	-6-	$\square$												d scr
	7_			111111										een.
				1	ML							Bento	onite Seal	
				<u>     </u>										
	9			]										
28, 30/3-In.	10-	$\square$		1		White 5۱	/ 8/2 sa	andy granuley	clayey s	silt.				
	11-			10000						- (				
	12_				wRx	Transitio	nai cha	inge from 'soli'	to wea	athered rock	. LO	NESTAR N	o. 3 Sand	
	14-	$\square$		-						First E	ncountered	Water at 14	1.5± Feet.	
21 17 22	15_	Ħ				Pole vell	OW EV	9/1 woothorsd	rock f	roamostod t	o oliabthe		andv	
21,17,32	16-	$\vdash$			wRx	raie yell	granula	r silt. Hint of m	oisture	agmented t e.	J Slightly (	Jayey Sa	апцу	sc
	17	$\square$												reen
$\left  - \right ^{-}$	10	$\vdash$		_										ope
		$\square$		1		Variably	hard w	eathered rock						ning
	19-	$\square$				vanabiy								IS = (
50/6-In.	20-				hwRx	Hard we	athered	l slate						0.02
$\left  - \right ^{-}$		+		-									]	0 inc
														÷
	23-	<b> </b>				Increasi	a her	hoss						
		$\vdash$				mcreasir	ig narc	11622.						
	2- <del>1</del> 2F_			_										
30/3-In.		$\square$			hwRx	Hard we	athered	rock. No reco	verv					
	26-	Ħ		1										
	27-					Water be	earing f	racture. No wa	ater ac	cumulation i	n borehol	e beneat	th.	
					1	Appe	ars "dr	y".						

							Location: Former Cheaper! #182	
							130 Pleasant Valley Road, Diamond Spgs, CA	
g ints	٨						BOREHOLE No. MW-17 Sheet	2 of 2
amplin owcot	D/FID Nu/OV ading	epth	ample	ail ample umber	aphic ail mbol	SCS oil mbol		
йä	ΞΞē	ţë	ő	ស័ល័ <i>ž</i>	ତି ଉଁ ଡି	ച്റ്റ്	Field Soil Description	
		-29-		-			LONESTAR No. 3 San	d
		-30-			1			
30/3-ln.		_21_				WRX	Hard weathered rock. No recovery.	cree
		27			-			- op
		-32-	—		-			enin
		-33-	F		1			gs =
		-34-			1			0.02
30/2-In.		-35-				wRx	Hard weathered rock. No recovery.	0 inc
		-36-						- 1 <del>-</del> 1
		-37-	-					
		-38-	F		1			
		-39-			1			
		-40-			Total D	epth 39.5	5         Hard rock.         Total Well Depth = 42.08 Feet	PLUG
		_41_			(belov	v grade)	No further advancement. (below reference mark	)
		4.0			-			-
		42-		-	-			-
		-43-		-				-
		-44-	┢		1			-
		-45-	L					
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			F		-			-
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ſ	Ľ-		$\cap$	<u>ت</u>				В	OREHO	LE	LITHC	DLO	GIC	CLO	G	
A	GROUN	y ∪ ^{ID} wat	UT ER ¹	Соизи		]			BOREHOLE I	No.	MW-18	3	Shee	t 1 of	2	1
Project	No ·		Dat	۵.	00/22/	03	<u>                                     </u>	Drilling		illing		rill Me			50	7
Client:	The Cus	stomer	_Dat	e. npany	09/23/	03		Drilling	Method-Rotar	y Auge	er B	oreho	le Diar	neter	6-in	
Location	n: Forme	er Chea	aper	#182				Finishe	d Well Rim Ele	evatior	<u>ו</u>		Datum	: groun	d surfac	ce
_	130 Plea	asant \	/alle	y Road	, Diamo	nd Spgs	s, CA	Boreho	le was comple	eted as	a monitori	ng we	II MW-	·18.		
Logged	by: (	GDL							•	Samp	ble and cut	tings I	oq.			
							Water L	.evel	10.00				Ŭ		6-in 's	tove-pipe'
its	RY						Time		15:50						Height	
rcour	OVE	÷	ple	iple iber	ohic bol	s: pol	Date		9/25/2003					_	2.80 Ft.	0.34 Ft.
Sarr Blow	REC	Dep test	Sam	Soil Sarr Nurr	Grat Soil Sym	USC Soil Sym		Field	Soil Descripti	on (all	contacts u	ncerta	ain).		2.46 Ft.	
							0.25 Se	dge so	d.							
		-1					Very pa	le brow	n 10YR 8/4 gr	anuley	/ silt.			Neat Cem	ent Grout	
		-2	$\vdash$			ML										≥≟
		-3			]											h
		-4					Transitio	onal cha	ange from 'soil	' to we	athered ro	ck.				PVC
		-		-												cas
22, 50/6-Ir	n.	5-			_											sing
		-6					Pale ye	llow 5Y	7/3 hard weat	hered	rock that fr	agme	nts to	granular	r silt.	and
		-7—				wRx										SCTE
		-8												Bento	onite Seal	een.
		9														
20, 25, 33	3	10			_		Gray 50	G 6/1 we	eathered slate	bande	d with pale	e yello	w 5Y 6	6/3		
		-11-			_			weathe	red schist. Fra	igment	ts to granul	lar, pe	bbly s	ilt.		
		-12–			_	wRx							LON	IESTAR N	o. 3 Sand	
		-13-														
		11									Firs	t Encou	ntered V	Vater at 14	I.5± Feet.	SCT
		-14-					Water b	earing	fracture.						$\nabla$	een
50/3-In.		15-			1	_	No reco	very.								ope
		-16-	-		-	wRx	<u> </u>									ning
		-17-				1										st =
		-18-				HRx	Hard ro	ck.								0.02
$\vdash$		10-	<u> </u>	<u> </u>	-		Variably	hard w	eathered rock							20 in
		-19-			1											<u>S</u>
50/3-In.		20-	L		-		Gray 50	<u>G 6/1 w</u> e	eathered slate	and pa	ale yellow s	5Y <u>6/</u> 3	}			
		-21-	F		-	wRx		weathe	red schist. Fra	igment	ts to granul	ar coa	arse sa	and.		
		-22-														
			F		_											
50/1-In		20-	<u> </u>		_		Hard ro	ck								PLUG
00/ 1-iff.		-24-			Total [	Depth 24	No furth	er adva	ancement.		Tota	al Wel	l Depth	n = 26.6	0 Feet.	1.000
$\left  - \right $		-25-	-	<u> </u>	(belo	w grade)						(b	elow r	eterence	e mark)	
		-26-														
		-27-	$\vdash$													
$\left  - \right $		~ ~	<u> </u>		-		<u> </u>									
		-28-			-	•										

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							Locatio <u>n:</u>		Forme	r Chea	per! #1	182			_		
							13	30 Ple	easant '	Valley I	Road,	Diamo	nd Spgs	s, CA	-		
g ints	۲.										BOR	EHOLE	E No.	MW-18	8	Sheet	2 of 2
implin owcou	D/FID Nu/OV ading	apth	umple	umble umber	aphic ui mbol	sCS ii mbol											
ů Ħ	ΞΞĕ	ţ	ŝ	ທິທິ <del>ຊ</del> ັ	ບັນດີ	ട്ര്ര്				Fie	eld Soil	Descr	iption				
		-29-			-	Rx								LONES	TAR No	. 2/12 Sand	
		-30-	_		1		Very hard	d slate	э.				Total W	/ell Depth	n = 31.	96 Feet.	PLUG
		21			Total Dep (below g	oth 30 grade)								(below re	eteren	ce mark)	
		27			-												
		-32-	_		-												
		-33-			-												
		-34-			1												
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		BOREHOLE LITHOLOGIC LOG
A GROUND WATER CONSU		BOREHOLE No. <u>MW-19</u> Sheet 1 of <u>2</u>
Project No · Date:	10/04/02	Drilling Co. V&W Drilling Drill Model CME 75
Client: The Customer Company		Drilling Method-Rotary Auger Borehole Diameter 8-in
Location: Former Cheaper! #182		Finished Well Rim Elevation Datum: ground surface
130 Pleasant Valley Road,	Diamond Spgs, CA	Borehole was completed as a monitoring well MW-19.
Logged by: GDL		Sample and cuttings log.
	Wa	ter Level 22.50 8-in 'stove-pipe'
e e e	,e a a	ne 10:52 Height
slowcc Blowcc ECO Septh Sample Soil	Praphi Soil Soil SCS Soil SCS	tte 10/4/2002
		Sedge sod.
1	Yell	ow 10YR 7/6 clayey silt. No odor. Neat Cement Grout
2		
3		
5	™∟	
6	Yell	owish brown 10YR 5/6 pebbly (angular) clayey silt.
7		
8		
q	Yell	owish brown 10YR 5/6 clayey silt with 20±% rock fragments.
	Rx	
12		Bentonite Seal
13	Dar	k vellowish brown 10YR 4/6 weathered schistose rock
14	ML grou	ind to rocky clayey silt. LONESTAR No. 2/12 Sand
15		
	UIIIII Ver	y hard.
	Dar Rv	k gray 10YR 4/1 softer weathered slate.
19		
20	Har	d slate. First Encountered Water at 21+ Feet
21		$\nabla$
24		
25	Rx Dar	k gray 10YR 4/1 weathered slate.
26		
27	Sof	er interval, possible fracture.
	4 I 🛏	

							Locatio <u>n:</u>	Former C	Cheaper! #182				
							130	) Pleasant Va	lley Road, Diam	nond Spgs	, CA		
g ints	۲.								BOREHO	LE No.	MW-19	Sheet 2	2 of 2
implin owcou	D/FID Vu/OV ading	apth	umple	umble umber	aphic ui mbol	SCS ii mbol							
ů Ħ	ΞΞĕ	ţ	ŝ	ທິທິ <del>ຊ</del> ັ	ତ ର ର	ട്ര്ര്			Field Soil Des	cription			
		-29-			_	Rx					LONESTAR	No. 2/12 Sand	
		-30-	_				Very hard s	slate.		Total W	ell Depth = 3	1.96 Feet.	PLUG
		21			Total Dep (below g	oth 30 grade)					(below refere	ence mark)	
		27			_								
		-32-	_		_								
		-33-			_								
		-34-			_								
		-35-											
		-36-			_								
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		11											
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A	GROUN		UT ER	CONSU			]			BOREHOLE	No.	<u>MW-20</u>	Shee	et 1 of _	2	
Proiect	No.:		Dat	e:	02	/11/	02		Drillina	Co. V&W Dr	illina	Dril	I Model	Mobile I	3-61	
Client:	The Cu	stomer	· Con	npany					Drilling	Method-Rotar	y Auge	er Bor	ehole Dia	meter 9	9.25-in	_
Location	n: Form	er Che	aper	! #182					Finishe	d Well Rim Ele	evatior	n	Datum	n: ground	surface	-
ı -	130 Ple	asant '	Valle	y Road	, Dia	imo	nd Spgs	, CA	Boreho	le was comple	ted as	a monitoring	g well MW-	-20.		
Logged	by:	GDL									Samp	ole and cuttir	ngs log.			
								Water	Level	6.35						
unts	ΈRΥ		-		0	_	_	Time		10:51						
amplir owco	feet	epth	ample	ample amble	raphic	/mbol	SCS	Date		3/8/2002						
ů đ	8	đ đ	ő	й й ź	50 777	56	⊐ິທັທີ ∎		F	ield Soil Desc	ription	(all contacts	uncertain	). 8-in sti	reet box	
		-1-					GC	Landso	ape fill.	Clayey gravel/	gravell	y clay.		Nucl		
		_2_			m	Î								Neat Ceme	nt Grout	
		2			-										-	
					]											
		-4-			1111											2-inc
2		- 5 -			$\left  \right  \right $			Yellowi	sh brow	n 10YR 5/4 cla	iyey si	It. No odor.			_	с <del>л</del> Р
4		-6			]											VC
		-7-					ML									asin
		_8														ig ar
		0			-											nd so
		-9-			Ш		2									reer
50/5-inch		-10-						Very pa	ale brow	n 10YR 8/4 va	riably	weathered so	chistose ro	ock.		2.
		-11-							No odo	r.					-	
		-12-														
		-13-														
		_1/_														
		15			-										_	
50/6 inch		-10-	L		1			Very pa	ale brow	n 10YR 8/4 va r	riably	weathered so	chistose ro	ock.		
JU/0-INCh		-16-			1											
		-17-	L													
		-18-	F		-											
		-19-			1											
		-20-						Very pa	ale brow	n 10YR 8/4 va	riably	weathered so	chistose ro	ock.		
30 50/3-inch		20	$\vdash$		-				No odo	r.						
		-21-	_		-									Rentor	nite Seal	
		-22-			1									Domol		ļļ
		-23-	L					Increas	sing resi	stence to drillir	ng.					
		-24-			-											
50/4		-25-			1			Variation	ala k		n ak t	u a a th c!		ali		
5U/4-INCh		_26_						very pa	No odo	n 101K 8/4 va r.	nably	weathered so	UNISTOSE IC	ICK.		
$\vdash$		20-	$\vdash$		-											
		-21-	-		1								LON	NESTAR No.	. 3 Sand	
		-28-	1	I			I	L								

							Location: Former Cheaper! #182	
							130 Pleasant Valley Road, Diamond Spgs, CA	
ig unts	A						BOREHOLE No. MW-20 Sheet 2	of 2
amplin owcot	D/FID Vu/OV ading	epth st	ample	ain ample umber	raphic oil /mbol	SCS oil /mbol		
8 8 8	ΞΞē	ţ, D	ő	សល័ <i>ž</i>	ତି ଉଁ ଡି	ച്റ്റ്	Field Soil Description	
		-29-			_			
		-30-			_		Very pale brown 10YR 8/4 variably weathered schistose rock.	
50/4-inch		-21-					No odor.	
		<u></u>						scree
		-22-			_		LONESTAR No. 3 Sand	on of
		-33-			_			Denin
		-34-			_			igs =
10		-35-			_		Very pale brown 10YR 8/4 variably weathered schistose rock.	0.02
50/6-inch		36-			_		NO ODOR. First Encountered Water at 36.2± Feet.	20 in
		37-						8
		-38-						
		-39-			_		Very pale brown 10YR 8/4 variably weathered schistose rock	PLUG
50/E inch		-40-			_		No odor.	
30/3-11101		-41-			Total Dep	oth 40.5	(below reference mark)	
		42-			(below (	grade)		
		_43_			_			
		10						
		4E						
		-43-			_			
		-46-		<u> </u>	_			
		-47-			_			
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A GRUND WATER CONSULTANCY       BOREHOLE No.       MW-21       Sheet 1 of         Project No:       Date:       08/2404       Drilling Med-Retary Auger       Borehole Diameter & Sin         Location: Across Hwy 49 from Former Cheapert #182       Finished Well Rim Elevation       Date:       Date:       Borehole was completed as a monitoring well MW-21.         Logged by:       GDL       Sample and cuttings log.       Sample and cuttings log.       Sample and cuttings log.         view of the state of the		Нe	0	G	F(	)]	r ,			В	OREHO	LE I	LITHOL	OGI	C LC	G
Project No.:       Date:       08/24/04       Drilling Co. V&W Drilling       Drill Model       OME BK81HD         Client:       The Customer Company       Drilling Method-Ratary Auger       Borehole Diameter 8-in         Location:       Account of Charge of #182       Finished Well Rim Elevation       Datum; ground surface         130 Pleasant Valley Road, Diamond Spps, CA       Borehole was completed as a monitoring well MW-21.       Sample and cuttings log.         Logged by:       GDL       Sample and cuttings log.       Sample and cuttings log.         Image: State	A	GROUN	ND WAT	ER (	CONSU	LTA	NC,	ſ			BOREHOLE	No.	<u>MW-21</u>	She	et 1 of	2
Client: The Customer Company       Drilling Method-Rotary Auger       Borehole Diameter       8-in         130 Pleasant Valley Road, Diamond Sygs, CA       Borehole Was completed as a monitoring well MW-21.       Logged by:       GU         130 Pleasant Valley Road, Diamond Sygs, CA       Borehole Was completed as a monitoring well MW-21.       Logged by:       GU       Sample and cutings log.         100 Pleasant Valley Road, Diamond Sygs, CA       Borehole Was completed as a monitoring well MW-21.       Logged by:       GU       Sample and cutings log.         100 Pleasant Valley Road, Diamond Sygs, CA       Borehole Was completed as a monitoring well MW-21.       Logged by:       GU       Sample and cutings log.         100 Pleasant Valley Road, Diamond Sygs, CA       Borehole Was completed as a monitoring well MW-21.       Logged by:       Diamond Sygs, CA       Borehole Was completed as a monitoring well MW-21.         100 Pleasant Valley Road, Diamond Sygs, CA       Mult       Nate Cameron Pleasant, N	Project	No.:		Date	e:	08	/24/	/04	[	Drilling	Co. V&W Dr	illing	Dril	I Model	CME	BK81HD
Location: Across Hwy 49 from Former Cheagert #182       Finished Well Rim Elevation Datum; ground surface	Client:	The Cu	stomer	Com	ipany				[	Drilling	Method-Rotar	y Augei	r Bor	ehole Dia	ameter	8-in
130 Pleasant Valley Road, Diamond Spgs, CA     Borehole was completed as a monitoring well MW-21.       Logged by: GDL     Sample and cuttings log.       Sample and cuttings log.       Water Level     16.17     Image: Sample and cuttings log.       Time     15.143       Time     15.43       Date     08/27/04       Field Soll Description (all contacts uncertain).       O L       Sample and cuttings log.       Water Level     16.17       Time     15.4       O L       Sample and cuttings log.       Water Level       O L       Sample and cuttings log.       Time       Date       O L       Sample and cuttings log.       Time       Time       O L       Time       Sample and cuttings log.       Time       O L       Time       O L       O L       O L       Time       Time	Locatio	n: Acros	s Hwy	49 fro	om For	mer	Ch	eaper! #	182 F	Finishe	d Well Rim Ele	evation		Datu	m: grour	nd surface
Logged by:       GDL       Sample and cuttings log. ⁿ gging ⁿ gging	1	130 Ple	asant \	/alley	/ Road,	Dia	mo	nd Spgs,	CA E	Borehol	e was comple	ted as	a monitoring	g well MV	V-21.	
9000000000000000000000000000000000000	Logged	l by:	GDL									Sampl	le and cuttin	gs log.		
Bit of the second sec									Water Le	evel	16.17					8-in 'stove-pipe'
gg og og gg g	unts	ERΥ				~			Time		15:43					Height
##         ##         ###         Field Soil Description (all contacts uncertain).           0.5 Loose soil & leaf litter         0.5 Loose soil & leaf litter           1	amplir owco	COV	epth	mple	umple umbe	aphic	mbol	SCS il mbol	Date		08/27/04					1.19 Ft.
1     Cost Ecose adit died inter       2     Reddish yellow 7.5YR 6/6 slightly (angular) gravelly silt.       3     ML       4     Yellowish red 5YR 5/8 sandy silt.       6     Yellowish brown 10YR 5/4 sandy clayey silt.       7     8       9     Yellowish brown 10YR 5/4 sandy clayey silt.       10     Yellowish brown 10YR 5/4 sandy clayey silt.       11     ML       12     Bentonite Sed       13     Light yellowish brown 10YR 6/4 sandy clayey silt.       14     LONESTAR No. 3 Sand       15     ML       14     Light yellowish brown 10YR 6/4 sandy clayey silt.       15     ML       16     K       17     Rx       20     ML       21     Rx       22     WRW       23     WRV       24     WRV       23     WRV       24     WRV       24     WRX	őă	ц.	đã	ŝ	ស ល ž	ىق ۲	ຑຑ	്ഗ്ഗ്	0.51.005	F Se soil 8	ield Soil Desci	ription (	all contacts	uncertai	n).	
2       ML       Reddish yellow 7.5YR 6/6 slightly (angular) gravelly sitt.         3       ML       Neat Cement Grout         4       Yellowish red 5YR 5/8 sandy slitt.       Neat Cement Grout         5       Yellowish brown 10YR 5/4 sandy clayey slitt.       Yellowish brown 10YR 5/4 sandy clayey slitt.         10       Yellowish brown 10YR 5/4 sandy clayey slitt.       Yellowish brown 10YR 5/4 sandy clayey slitt.         11       ML       Bentonite Seel         13       Intervention of the seel       Intervention of the seel         14       LoneSTAR No. 3 Sand       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx       Very hard schistose rock.         19       ML       Light yellowish brown 10YR 6/4 sandy clayey silt.         22       wRx       Very hard schistose rock.         23       WRx       Very hard schistose rock.         24       WRx       Very hard schistose rock.         24       WRx       Very hard schistose rock.         Yellowish brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)       Wr         WRx       Wr       Wr         WRx       Wr       Wr			_1_			Ш			0.5 2003							
2       ML       Neat Cement Grout         4       Yellowish red 5YR 5/8 sandy silt.       Yellowish brown 10YR 5/4 sandy clayey silt.         6       -7       -         8       -       -         9       -       -         10       Yellowish brown 10YR 5/4 sandy clayey silt.       -         11       ML       Wellowish brown 10YR 5/4 sandy clayey silt.       -         11       ML       Bentonte Seal       -         13       -       -       -       -         14       Light yellowish brown 10YR 6/4 sandy clayey silt.       -       -         11       ML       Light yellowish brown 10YR 6/4 sandy clayey silt.       -         13       -       -       -       -         14       Light yellowish brown 10YR 6/4 sandy clayey silt.       -       -         15       -       -       -       -         18       R×       Very hard schistose rock.       -       -         20       ML       Light yellowish brown 10YR 6/4 sandy clayey silt.       -         21       R×       Very hard schistose rock.       -       -         22       WRX       Variable hardness schistose phase weathered rock.       - <td></td> <td></td> <td>ว</td> <td></td> <td></td> <td>╢</td> <td></td> <td></td> <td>Reddish</td> <td>yellow</td> <td>7.5YR 6/6 slig</td> <td>ghtly (ar</td> <td>ngular) grave</td> <td>elly silt.</td> <td></td> <td></td>			ว			╢			Reddish	yellow	7.5YR 6/6 slig	ghtly (ar	ngular) grave	elly silt.		
-3			_2_					ML							Neet Co	mant Crout
-4       Yellowish red 5YR 5/8 sandy silt.         -5			-3-												Neat Cer	ment Grout
5       Yellowish brown 10YR 5/4 sandy clayey silt.         6       Yellowish brown 10YR 5/4 sandy clayey silt.         10       Yellowish brown 10YR 5/4 sandy clayey silt.         11       ML         12       Bentonie Seal         13       LONESTAR No. 3 Sand         14       LONESTAR No. 3 Sand         15       Light yellowish brown 10YR 6/4 sandy clayey silt.         17       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx         20       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       ML         18       Rx         20       Rx         21       Rx         22       WRx/         23       Variable hardness schistose rock.         22       WRx/         Variable hardness schistose phase weathered rock.         23       Variable hardness schistose phase weathered rock.         24       wRx         War       Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)         with schist fragments.       With schist fragments.			-4-						Yellowis	h red 5	YR 5/8 sandv	silt.				
Image: Selection of the se			- 5 -			₩			Vellewie	h hrow	10VD 5/4 ap	ndu ala				
0       7         8       9         10       Yellowish brown 10YR 5/4 sandy clayey silt.         11       ML         12       Bentonite Seal         13       Light yellowish brown 10YR 6/4 sandy clayey silt.         15       Light yellowish brown 10YR 6/4 sandy clayey silt.         17       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       R×         20       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       ML         21       R×         22       WR×/         23       Very hard schistose rock.         23       Very hard schistose phase weathered rock.         23       Variable hardness schistose phase weathered rock.         24       wR×         wR×       Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)         wR×       Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)			_6						Yellowis	n drowi	1 10 f R 5/4 sa	ndy cla	yey slit.			
-7       -8         -9       -10         11       -11         11       -11         12			-													
8       9         10       Yellowish brown 10YR 5/4 sandy clayey silt.         11       ML         12       Bentonie Seal         13       LONESTAR No. 3 Sand         14       LONESTAR No. 3 Sand         15       Light yellowish brown 10YR 6/4 sandy clayey silt.         17       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       R×         20       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         21       R×         22       WRX         23       WRX         24       WRX         Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)         with schist fragments.			-/-													
9       10         10       11         11       11         12       Bentonite Seal         13       14         15       16         16       Light yellowish brown 10YR 6/4 sandy clayey silt.         17       Rx         18       Rx         19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       Rx         21       Rx         22       WRx/         23       Variable hardness schistose poks.         23       Variable hardness schistose plase weathered rock.         24       WRx         WRx       Wr brown 2.5Y 5/6 sandy clayey silt (auger fragmentation) with schist fragments.			-8-			╢										
10       Yellowish brown 10YR 5/4 sandy clayey silt.         11       ML         12       Bentonite Seal         13       LONESTAR No. 3 Sand         14       LONESTAR No. 3 Sand         15       Light yellowish brown 10YR 6/4 sandy clayey silt.         16       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx         19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       Rx         21       Rx         22       WRx/         23       Variable hardness schistose plase weathered rock.         23       Variable hardness schistose plase weathered rock.         24       wRx         Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation) with schist fragments.			-9-													
10       Yellowish brown 10YR 5/4 sandy clayey silt.         11       ML         12       Bentonite Seal         13       LONESTAR No. 3 Sand         14       LONESTAR No. 3 Sand         15       Light yellowish brown 10YR 6/4 sandy clayey silt.         16       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx         19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       ML         21       Rx         22       WRx/         Variable hardness schistose phase weathered rock.         23       Variable hardness schistose phase weathered rock.         24       Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation) with schist fragments.			_10_													
11       ML       Bentonite Seal         12       Image: Seal of the seal of t			10						Yellowis	h browi	n 10YR 5/4 sa	ndy cla	yey silt.			
-12       Bentonite Seal         -13       LONESTAR No. 3 Sand         -14       LONESTAR No. 3 Sand         -15       Light yellowish brown 10YR 6/4 sandy clayey silt.         -16       Light yellowish brown 10YR 6/4 sandy clayey silt.         -17       Light yellowish brown 10YR 6/4 sandy clayey silt.         -18       Rx         -19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         -20       WRx/         -21       Rx         Very hard schistose rock.         -22       WRx/         -23       Variable hardness schistose phase weathered rock.         -24       Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)         wrx       wrx         wrx       wrx			-11-					ML							_	
13       LONESTAR No. 3 Sand         14       LONESTAR No. 3 Sand         15       Light yellowish brown 10YR 6/4 sandy clayey silt.         17       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx         19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20       WRx/         21       Rx         22       WRx/         23       Very hard schistose rock.         23       Very hard schistose phase weathered rock.         23       Very hard schistose phase weathered rock.         24       WRx         Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)         with schist fragments.			-12-												Ben	itonite Seal
14       LONESTAR No. 3 Sand         15       Light yellowish brown 10YR 6/4 sandy clayey silt.         17       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx         19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20         21       Rx         22       Rx         23       WRx/         23       Variable hardness schistose phase weathered rock.         First Encountered Water at 23± Feet.         23       Variable hardness schistose phase weathered rock.         24       Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation) with schist fragments.			-13-													_
15			_14-											LO	NESTAR N	No. 3 Sand
10       10         17       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx         19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20         21       Rx         22       WRx/ Rx         Variable hardness schistose phase weathered rock.         First Encountered Water at 23± Feet.         23       V         24       WRx         Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)         with schist fragments.			15			╢										
16       Light yellowish brown 10YR 6/4 sandy clayey silt.         17       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx         19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20         21       Rx         22       WRx/ Rx         Variable hardness schistose phase weathered rock.         First Encountered Water at 23± Feet.         23       V         24       WRx/ WRx         Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)         with schist fragments.			-10-													
17       Light yellowish brown 10YR 6/4 sandy clayey silt.         18       Rx         19       ML         Light yellowish brown 10YR 6/4 sandy clayey silt.         20         21       Rx         22       WRx/         Variable hardness schistose phase weathered rock.         First Encountered Water at 23± Feet.         23       Variable hardness schistose phase weathered rock.         24       WRx/         Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)         with schist fragments.			-16-								· · · · · · · · · · · · · · · · · · ·					
18       Rx       Very hard schistose rock.         19       ML       Light yellowish brown 10YR 6/4 sandy clayey silt.         20       Rx       Very hard schistose rock.         21       Rx       Very hard schistose rock.         22       Rx       Very hard schistose rock.         23       Very hard schistose rock.       Variable hardness schistose phase weathered rock.         23       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         24       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         24       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         24       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         25       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         25       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         24       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         25       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         24       Variable hardn			-17-			-111			Light yel	lowish	brown 10YR 6	/4 sanc	ty clayey silt	•		
19       ML       Light yellowish brown 10YR 6/4 sandy clayey silt.         20       Rx       Very hard schistose rock.         21       Rx       Very hard schistose rock.         22       WRx/ Rx       Variable hardness schistose phase weathered rock. First Encountered Water at 23± Feet.         23       Variable hardness schistose phase weathered rock. Rx       Variable hardness schistose phase weathered rock. First Encountered Water at 23± Feet.         24       Variable hardness schistose phase weathered rock. WRx       Variable hardness schistose phase weathered rock. First Encountered Water at 23± Feet.         24       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         24       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         25       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         9       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         9       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         10       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.         10       Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered			-18-			L		Rx	Very har	rd schis	tose rock.					
ML       Light yellowish brown 10YR 6/4 sandy clayey silt.         20       Image: Second secon			_19_			╢					· · · · · · · · · · · · · · · · · · ·					
20       Image: Second se				$\vdash$		$\ $			Light yel	llowish	brown 10YR 6	/4 sanc	ty clayey silt	•		
21     IX     Very flatd scriptiose rock.       22     WRx/ Rx     Variable hardness schistose phase weathered rock.       23     Variable hardness schistose phase weathered rock.       24     Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)       wRx     with schist fragments.			-20			Ш		   Pv	Vorther	d ochi-	topo rock					
WRx/     Variable hardness schistose phase weathered rock.       23     Rx       24     Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.     First Encountered Water at 23± Feet.       Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       23     Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       24     Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       Variable hardness schistose phase weathered rock.     Variable hardness schistose phase weathered rock.       Variable hardnest schistose phase weathered rock.     Variable hardness			-21-						very nar	u schis	IUSE TUCK.					
23 24 25 WRx WRx WRx WRx WRx WRx WRx WRx WRx WRx			-22-			-		wRx/ R×	Variable	hardne	ess schistose p	phase v	weathered ro	ock. t Encounter	ed Water a	t 23± Feet.
24 Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation) wRx wth schist fragments.			-23-			1										
Light olive brown 2.5Y 5/6 sandy clayey silt (auger fragmentation)           wRx         with schist fragments.																
			-24-			-		wRx	Light oliv	ve brow	n 2.5Y 5/6 sar	ndy clay	yey silt (auge	er fragme	entation)	
			-25-						with 50	nocitay						
26 Yellowish red 5YR 5/8 slightly weathered slate (ground).			-26-			+			Yellowis	h red 5	YR 5/8 slightly	/ weath	ered slate (o	ground).		
			-27-					wPv			5			/		
			28					WINA								

							Location: Former Cheaper! #182	
							130 Pleasant Valley Road, Diamond Spgs, CA	
g Ints	Ą						BOREHOLE No. MW-21 Sheet 2 c	of 2
umplin owcou	D/FID Vu/O/ ading	apth ,	umple	umble umble	aphic ui mbol	SCS ii mbol		
ŭ Ĕ	ΞΞĕ	tě D	ŝ	มัง มัง	ບັດດີ	്റ്റ്	Field Soil Description	
		_29					LONESTAR No. 3 Sand	
		_30_						
		-30-				wRx	Yellowish red 5YR 5/8 slightly weathered slate ground to clayey silt.	
		-31-			-			
		-32-			_			
		-33-						Plug
		-34-			Total Dep (below g	oth 33.5 Irade)	Total Well Depth = 34.72 Feet. (below reference mark)	
		-35-			-			
		-36-			-			
		-27-						
		57			_			
		-38-			-			
		-39-			_			
		-40-			_			
		-41-			-			
		-42-			_			
		-43-			-			
		_44_			-			
		45			_			
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	H	20	Ġ	E(	)]	L				
A	GROUN	ND WAT	ER (	CONSU	LTA	NC	Υ		BOREHOLE No. <u>MW-22</u> Sheet 1 of <u>2</u>	
Project	No.:		Date	e:	08	/24	1/04		Drilling Co. V&W Drilling Drill Model CME BK81HD	
Client:	The Cu	stomer	Com	npany #192					Drilling Method-Rotary Auger Borehole Diameter 8-in	
Lucatio	120 Plo			#102	Dic	m	and	Spac	A Berehele was completed as a monitoring well MW 22	
	<u>130 Fie</u>		alley	/ Ruau,	Die		JIIU	Spys,	Sample and cuttings log	
Logged	<i>i by</i> .	ODL							Water Level 18.54	
j Its	RY								Time 15:39	
npling wcour	:OVE feet	÷.	nple	l nple nber	phic	lodu	ų	S_loqu	Date 08/27/04	
Blo	REC	Dep test	Sar	Soil Sar Nur	Gra	N N N		Soil Syn	Field Soil Description (all contacts uncertain). ToC = -0.41	
		_1_				пп			0.75 Loose soil & leaf litter 8-in street box	
		י ר			$\left\  \right\ $				Strong brown 7.5YR 5/8 very rocky (angular) sandy Neat Cement Grout gravelly silt.	
		-2						ML	Transitional loss of angular rock fragments	
		_3_			₩					
		-4								2-in
		- 5 -			$\left\  \right\ $				Yellowish brown 10YR 6/4 clayey silt. No odor.	ch P
		-6								VC o
		-7-			111			ML		asin
		_8_								g an
		_0_							Light yellowish brown 10YR 6/5 sandy silt.	d sci
		9			╢					reen
		-10-								•
		-11-			111					
		-12-								
		-13-						ML	Yellow 10YR 8/6 sandy silt.	
		-14-			$\left\  \right\ $					
		-15								
		-16-								
		_17_							Bentonite Seal	
		_18.								
	$\vdash$	10-			Ш		11			
<u> </u>		-19-						wRv	Weathered yellow slate.	
		-20								
		-21-								
		-22-	L					ML	Very pale brown 10YR 7/4 sandy silt. LONESTAR No. 3 Sand	
		-23-			$\left\  \right\ $					
		-24-			Ĩ			Rv.	Hard gray slate.	
		-25-						118		
		_26_								
	<u> </u>	20-	<u> </u>		-				First Encountered Water at 27± Feet.	
<u> </u>		-21-					T		Softer gray slate below first encountered water, possibly due to	
	I	-28-	1	l	1					

							Location: Former Cheaper! #182	
							130 Pleasant Valley Road, Diamond Spgs, CA	
g ints	٨						BOREHOLE No. MW-22 Sheet 2	of 2
mplin	Ju/OV dino	t bt	mple	il mple mber	aphic il mbol	SCS il mbol		
Bica	E PE	De	Sa	San	ບັ້ິຈິຈີ	n o o o	Field Soil Description	_
		_29						
		20			_	Rx	Gray slate.	
		-30-			_			
		-31-			_			SCI
		-32-			-			een
		-33-					LONESTAR No. 3 Sand	ope
		-34-						ning
		-35-				_		s = (
		20			_	Rx	Gray slate.	).02(
		-36-			_			) inc
		-37-			_			5
		-38-						
		-39-			-	Rx	Grav slate.	
		-40-			_		Total Wall Dopth - 40.95 East	PLUC
		-41-			Total Dep	th 40.5	(below reference mark)	1 200
		-42			(below g	rade)		
		12			_			
		-43-			_			
		-44-			-			
		-45-						
		-46-			_			
		-47-			-			
		-48-			_			
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	$[ - \cap$	CF				В	OREHO	LE I	LITHO	DLOGI		6
		ER CONSI	JLTANCY	]			BOREHOLE	No.	<u>MW-2</u>	<u>3</u> She	et 1 of	2
Project No :		Date:	02/18/	02		Drilling		illing	r	Vrill Model	Mobile B	-61
Client: The	Customer	Company	02/10/	02		Drilling	Method-Rotar	v Auger	 r E	Borehole Dia	meter 9	.25-in
Location: Ad	cross Patte	erson from	former Cl	heaper!	#182	Finishe	d Well Rim Ele	vation		Datur	m: ground :	surface
130	Pleasant \	Vallev Road	d. Diamor	nd Spas	s. CA	Boreho	le was comple	ted as	a monitor	ing well MV	/-23.	
Logged by:	GDI		.,		,			Sampl	le and cu	ttinas loa		
209900.07	001				Water L	evel	7.84	Campi		unge legi		
₹ ^{ts}					Time		10:22					
pling /coun	th eet	ple ber	bol	s: lod	Date		3/8/2002					
Blow Blow	f Dep test	Sam Soil Nurr	Grap Soil Sym	USC Soil Sym		F	ield Soil Desci	ription (	(all contac	cts uncertair	ı).	
	<u> </u>			м	Strong	brown	7 5 TR 5/8 can	dv eilt			8-in stre	eet box
	1_				Strong	No odo	r.o TK 5/6 San	uy siit.	ł	First Encountere	ed Water at 0.8	V B Feet.
	2		-							Perched w	ater in surfacia	al silts.
					-							_
			-								Neat Cemen	t Grout
	-4-											:-inc
	5 -											
	6		-									— /ċ.
	<b>—</b> 7—											asin
	8											gar
	9_				-							
1	10				Strong	brown 7	7.5 TR 5/8 clay	ey silt.				ڊ
3			-			No odo	r.				Bentonit	te Seal
	-12-										Bontoni	lo obdi
7 16	12		-		Strong	brown 7 No odo	<u>7.5 TR 5/8 clay</u> r.	ey silt.				
20	=				Dark re	ddish h	rown 3VR 3/3 (	ravelly	/ sandy cl	avev silt		
	14-				Daikite	No odo	r.	graveny	/ Sandy Ci	ayey siit.		
35					Gray to	dark gr	ay N4-N5/ vari	ably we	eathered t	to unweathe	red slate.	
50/2-inch						No odo	r.					
					-							
	10	$\vdash$										
												SCT
												een
	-20-		_		Grav to	dark or	ay N4-N5/ vari	ably we	eathered 1	to unweathe	red slate.	ope
	-21-				-	No odo	r.					ning
	-22-									LO	NESTAR No. 3	3 Sand
					<u> </u>							0.02
	24-											
			_		Grav to	dark or	av N4-N5/ vari	ably we	eathered t		red slate	
						No odo	r.				יטע שמום.	
		<b>├</b>	_									
			_									
		I I		1	I							

							ocation: South end lot across Patte	erson fror	<u>m former</u> Che	aper! #182	
							130 Pleasant Valley Road, Diamo	ond Spgs	, CA		
J nts	4						BOREHOL	E No.	MW-23	Sheet 2	of 2
npling vcour		۲.	ple	nple nber	phic bol	SS					
San Blov	PID HNu read	Dep test	San	Soil San Nun	Gra Soil Syn	US( Soil Syn	Field Soil Desc	ription			
					_						
		-29-									
		-30-			-		ray to dark gray N4-N5/ variably weathe No odor.	ered to un	weathered sla	ate.	PLUG
		-31-			Tatal Day	th 24.0		Total W	ell Depth = 30	0.51 Feet.	
		-32-			(below g	grade)				ice mark)	
		22			_						
		-33-									
		-34-									
-		-35-			-						
		-36-									
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		BOREHOLE LITHOLOGIC LOG	
A GROUND WATER CONSU		BOREHOLE No. <u>MW-24</u> Sheet 1 of <u>2</u>	
Project No.: Date:	10/04/02	Drilling Co. V&W Drilling Drill Model CME 75	
Client: The Customer Company		Drilling Method-Rotary Auger Borehole Diameter 8-in	
Location: Lake Oaks Mobile Estate	es across Patterson	Finished Well Rim Elevation Datum: ground surface	
from 130 Pleasant Valley Road, D	iamond Spgs, CA	Borehole was completed as a monitoring well MW-24.	
Logged by: GDL		Sample and cuttings log.	
	Wa	ter Level	
a Ints Ints	Tir	ne	
mpling The feet	T mbol Da	ate	
Nar test	Soi Soi	Field Soil Description (all contacts uncertain).	
	0.3	Ft. sod. 0.5 Ft. DG fill 8-in street box	
		produce the second city clay	
2			
3		Neat Cement Grout	
4		N	
<b>_</b>			-
			2
			,
7		or transition. Increasding silt fraction.	•
8		and	
q			-
9	╢║║║ ┝──		
10			
11			
12	Red	ddish yellow 7.5 YR 7/6 sandy clayey silt.	
13			
	╢║║║ ┝──		
		Bentonite Seal	
15			
16	{		
17			
18	Dar	k yellowish brown 10YR 4/4 sandy very silty clay.	
		devollowich brown 10VP 4/4 condu yor : stores site	
20	ML Dar	Ground weathered slate.	
21	Rx Har	d slate.	
22		LONESTAR No. 2/12 Sand	
	- IIIIIIII ^{IVIL} Dar	K yellowish brown 10YR 4/2 sandy very clayay silt. Ground weathered slate.	
		do C	
24			
25	Dar	k gravish brown 10YR 4/2 variably weathered to unweathered slate	
26			
	Rx R		
	J I L		

							Locatio <u>n:</u>	
							0	
ts							BOREHOLE No. MW-24 Sheet 2	of 2
pling	DVA NOVA	£	ple	ple iber	bol	လ စြ		
Sam Blow	PID/ HNu read	Dept	Sam	Soil Sam Num	Grag Soil Sym	USC Soil Sym	Field Soil Description	
					_			
		-29-			-			
		-30-			_	Rx	Gray to dark gray N4-N5/ variably weathered to unweathered slate.	
-		21						
		-7T-			-		Einst Ensoundaried Water at 22-22 East	10
		-32-					Softer interval, possible fracture.	scre
		-33-						en o
		34-					LONESTAR No. 2/12 Sand	oper
		~ -			_			ling
		-35-				Du	Gray slate.	=
		-36-			-	КX		0.02
		-37-						0 In
		20						S
		-30-						
		-39-					Probable open fracture. During construction took 1.5 Cu. Ft. sand.	
		-40-			Total Der	th 40.0	Total Well Depth = 39.42 Feet.	PLUG
		_41_			(below g	grade)		
		11			-			
		-42-						
		-43-			-			
		44						
		45						
		-10-						
		-46-			-			
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	• OGF(		BOREHOLE LITHOLOGIC LOG	
A GRO	UND WATER CONSU	JLTANCY	BOREHOLE No. <u>MW-25</u> Sheet 1 of <u>2</u>	_
Project No.:	Date:	11/13/02	Drilling Co. V&W Drilling Drill Model CME 850	_
Client: The C	Customer Company		Drilling Method-Rotary Auger Borehole Diameter 8.5-in	
Location: Lak	e Oaks Mobile Esta	tes across Patte	rson Finished Well Rim Elevation Datum: ground surface	e
from 130 Ple	asant Valley Road, I	Diamond Spgs, (	CA Borehole was completed as a monitoring well MW-25.	
Logged by:	GDL		Sample and cuttings log.	
			Water Level 23.50 13.40 10.2	
unts ERY		0	Time 11:46 12:01 12:15	
owco COV feel	st ample ample	aphic mbol SCS ii	Date 11/13/02 11/13/02 11/13/02	
Sa n		Სਲ਼ਲ਼ ਲ਼ਲ਼ਲ਼ 	Field Soil Description (all contacts uncertain).	
	1_1			
		- CL	Strong brown 7.5 YR 3/4 gravelly silty clay.	
	-3		Neat Cement Grout	
	4		First Encountered Water at 5 Feet.	2-in
	- 5		Dark yellowish brown 10YR 4/4 granuley very clayey silt.	Ich F
				VC
	7			cas
				ing a
	8		Dark brown 10YR 4/3 sandy very clayey silt.	and
	9	ML		scre
			Above 10 feet is possibly fill.	en.
		_	Bentonite Seal	
			Increasing hardness	
	+14++	_		
	15	Rx		
		-		
		$\neg$	Weathered slate, breaks to fragments.	
	19		weatherd dry fracture zone.	
	20			
	+21+++++		Increasing fragmentation size.	
			LONESTAR No. 3 Sand	S
		-	Olive brown 2.5Y 4/4 sandy clayey silt fragments dominate. Ground weathered slate.	oree
				n op
	24		Increasing hardness.	enin
	25	-		gs =
	-26		Van y hard gray alata	0.0
			very naru głaż Siate.	20 ir
		-		ìch
		- '		

							Location:	
							0	
ŝ							BOREHOLE No. MW-25 Sheet 2	of 2
oling	0. AVO ₽	c	ele	ele Der	ji ja	<u>ه</u> ۵		-
Samp	PID/F HNu/F eadi	Depthest	Samp	Soil	Soil Soil Symb	Soil Symb	51 H 0 1 D	
0,8		40	<i>"</i>	0,0,2	000	BX-	Field Soil Description	
		-29					Second Encountered Water at 29 Feet.	
					Total Der	th 29.5	Very hard gray slate. Total Well Depth = 29.49 Feet. (below reference mark)	PLUG
		-30-			(below g	grade)		
		-31-			-			
		22						
		52			-			
		-33-						
		-34-			_			
-		25						
		55			-			
-		-36-						
		-37-			-			
-		-38-						
		50			-			
		-39-						
		-40-			-			
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		U						,
A	GRUUND	WATE	R CON	ISULI	TANCY		BOREHOLE No. <u>MW-26</u> Sheet 1 of <u>1</u>	
Project	No.: The Custo	omer (	Date: Compar	י. 	11/13/0	)2	Drilling Co. V&W Drilling Drill Model CME 850	-
Locatio	n: Lake Oa	aks M	obile Es	states	acros	s Pattei	son Finished Well Rim Elevation Datum: ground surface	-
from 13	30 Pleasan	nt Valle	ey Road	d, Dia	mond	Spgs, C	A Borehole was completed as a monitoring well MW-26.	
Logged	by: GI	DL					Sample and cuttings log.	
	~						Water Level         15.40           Time         15.07	
oling counts	OVER	c	e e	ber		s [0	Time         15:07           Date         11/13/02	
Samp Blowe	RECO	Dept	Samp Soil Samp	Num	Synt	USC: Soil Symb	Field Soil Description (all contacts uncertain).	
		1					0.4 Trail gravel. 8-in street box	2.
		2				CL	Strong brown 7.5 YR 3/4 gravelly silty clay. Neat Cement Grout	nch F
		2						VC
		ა					First Encountered Water at 4 Feet.	casin
		4					Dark yellowish brown 10YR 4/4 sandy very clayey silt.	g and
		5				ML		d scre
		0 7						en.
		<u>/</u>						
		8		_			Harder. Entered weathered slate.	
		9					Bentonite Seal	
		10						
		11-				Rx		
		12-				100		
	1	13						
		14-						
	1	15					Very bard bale vellow 2.5V 7/4 state	
		16-				Rx	Very hard schistose rock	
							Softer slate.	SCI
		18		$\exists$				een o
		19				Rv	Hard pale vellow state	open
	2	20				114		ings -
		21-						= 0.0
		22					LUNES FAR No. 3 Sand	20 in
		23-						ch
		24						
		25						
		26				Rx	Very hard pale yellow slate.	
		27					Total Well Depth = 27.35 Feet.	PLUG
L	<u> </u>	28			Fotal Dep (below g	th 27.5 rade)	Bit refusal at 27.5 feet. (below reference mark)	

							Location:	
							0	
g ints	۲						BOREHOLE No. Sheet 2	2 of 2
mplin	lu/OV ding	t pt	mple	il mple mber	aphic il mbol	mbol		
Bca	E H 5	De	Sa	SaN	ອິ່ນີ້	്റ്റ്റ്	Field Soil Description	
		_29				RX	Vater bearing fracture. Water level rises rapidly. V Second Encountered Water at 29 Feet.	
		20	<u> </u>		Total Der	oth 29.5	Very hard gray slate. Total Well Depth = 29.49 Feet. (below reference mark)	PLUG
		-30-			(below g	grade)		
		-31-						
		-32-	-					
		-33-			1			
		-34-			-			
		25						
		22			-			
		-36-	_		1			
		37-						
		-38-	-		-			
		-39-			-			
		-40-			1			
		_41_						
		10			-			
-		-42-	-	-	-			
		-43-			1			
		-44-						
		45-			-			
		-46-	_		-			
		47-						
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	BOREHOLE LITHOLOGIC LOG							
	BOREHOLE No. MW-27 Sheet 1 of 2							
Project No Date: 11/15/02	Drilling Co. V&W Drilling Drill Model CME 850	7						
Client: The Customer Company	Drilling Method-Rotary Auger Borehole Diameter 8.5-in	—						
Location: Lake Oaks Mobile Estates across Pa	atterson Finished Well Rim Elevation Datum: ground surfac	e						
from 130 Pleasant Valley Road, Diamond Spg	gs, CA Borehole was completed as a monitoring well MW-27.							
Logged by: GDL	Sample and cuttings log.							
	Water Level 20.20							
	Time 10:10							
wcou wcou cove feet feet aphic r cs cs	Date 11/15/02							
	Field Soil Description (all contacts uncertain).							
	U.15 sod. 8-in street box							
	Strong brown 7.5 YR 3/4 gravelly silty clay							
3	Neat Cement Grout	-inc						
4		h P/						
5 — M M M	Dark yellowish brown 10YR 4/4 granuley very clayey silt.	/C c						
	First Encountered Water at 6 Feet.	asin						
		g an						
		d sc						
	Dark brown 10YR 4/3 sandy very clayey silt.	reer						
9	Harder. Entered weathered slate.							
	Bentonite Seal							
14								
15	Rx Very hard pale yellow 2.5Y 7/4 slate.							
	Soft at 17 feet.							
		scree						
20		en o						
		peni						
	LONESTAR No. 3 Sand	ìngs						
		= 0.						
		020						
24		inch						
	Rx Hard light gray slate.							
							Location: Lake Oaks Mobile Estates across Patterson	
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							from 130 Pleasant Valley Road, Diamond Spgs, CA	
g ints	۷						BOREHOLE No. MW-27 Sheet	2 of 2
mplin wcou	0/FID Iu/OV ding	t pth	mple	il mple mber	aphic II mbol	mbol TCS		
Sa Blo	THN FIL	De tes	Sa	Sa Nu	ູ້ຍິ່ດຈີ່	S SS SS SS	Field Soil Description	
		20			_	Rx	Water bearing fracture. Water level rises rapidly.	-
		-29-					Hard light gray slate. Total Well Depth = 29.37 Feet.	PLUG
		-30-			Total Dep	oth 29.7		1
-		-31-			(below g	grade)		1
		-32-			_			
		- 2 2-						1
-		24						1
		-54-						
		-35-						
		-36-						1
		-37-						
		-38-						1
		20			_			1
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		-40-			_			1
		-41-						]
		42-						}
		43-			_			
		44_			_			
		15						1
		-40-						
		-46-			_			1
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		-48-			_			}
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A GRC	IUND WAT	TER	CONSU	LTA	- L	- /			BOREHOLE	No.	<u>MW-2</u>	8	Shee	et 1 of	:	2		
Project No.:		Dat	te:	11	1/14/	/02	-	Drillin	g <u>Co.</u> V&W Dr	illing	I	Drill Mo	del	CME	850		1	
Client: The	Customer	r Cor	npany					Drillin	g Method-Rotar	y Auge	er l	Borehol	le Dia	meter	8.5-ir	۱	_	
Location: La	ke Oaks N	Mobi	le Estat	es a	acros	ss Pat	terso	n Finish	ed Well Rim El	evation	۱		Datum	n: grou	nd surf	ace	-	
from 130 Ple	asant Va	lley I	Road, D	liam	nond	I Spgs	, CA	Boreh	ole was comple	eted as	a monito	ring we	II MW	-28.				
Logged by:	GDL									Samp	le and cu	ittings l	og.	1				
							W	ater Level	16.00							-		
ng unts 'ERY	_		~ <b>-</b>	0	_	_	ד	ime	11:52									
amplii lowco COV	apth st	ample	oil ample umbe	raphic	/mbo.	SCS		ate	11/14/02									
	ĕĕ	ŏ	й й́ Ź	ة ق س	<i>ம் ம்</i>	نŏč ا	ñ` 	Trail grave	Field Soil Desc	ription	(all conta	cts unc	ertain	). 8-ir	) street h	ox.	!	
	<b>1</b> _1_		1				0.							01	2		1	
				Ű		CL	St	ong brown	7.5 YR 3/4 grav	velly si	lty clay.							
							F									-		
	3-	L												Neat Ce	ment Gro	ut		
	4_	L					L										2-in	
	- 5 -	_		$\frac{1}{1}$			Da	ırk yellowisl	h brown 10YR 4	l/4 grar	nuley very	clayey	silt.				ICh F	
	-6-			111								First Enco	ountere	d Water a	at 6.5 Fee	et.	Š	
				╢			_					Perc	ched soi	il water. [	Dry by 9 F	t.	cas	
						IVIL											ing a	
	8						Da	ırk yellowisl	h brown 10YR 4	l/4 san	dy very cl	ayey sil	t.				and	
	-9-						_									-	scre	
	<del></del> 10-			111							0			1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			en.	
	$\pm_{11}^{10}$			Ш.			Ha	rder. Enter	ed weathered s	late.	56	cond End	countere	ed water		et. V		
$\left  - \right $	40		<u> </u>	-								Perch	ned soil	water. Di	ry by 14 F	٦t.		
	<u>-</u> -'2-	_	1				In	creasing ha	rdness							1		
	13_					Rx	C	ips of gray	and black slate					<u>.</u>				
$\vdash$		-		-												_		
	<del>-</del> 15-		1															
	16						Ha	rd slate.						Ber	ntonite Se	al		
		-		-			<u>M</u>	bist fracture	zone.No appar	ent free	e water.	ate chir	25				Í	
	$+^{1/-}$	L									2010100 31						1	
	18_						In	reasing ha	rdness									
				4			Ц	rd slate								-		
	<b>-</b> - 20-																	
		$\vdash$					Sf	DT.										
		<b>—</b>		-			In	reasing ba	rdness				101		No. 3 Ser	nd		
	+22-												201	.20171	. 10. 0 Odl	Ĩ	scre	
	-23-	+		-		1	Н	rd slate.									en o	
	-24-						F										pen	
	25-																ings	
	20	-	<u> </u>	-			$\vdash$						_			-	= 0	
			1			R×	. Ve	ry hard gra	y slate.								.020	
	27-						E							<u>.</u>			inct	
	⊥28			]											-		5	

							Location: Lake Oaks Mobile Estates across Patterson	
							from 130 Pleasant Valley Road, Diamond Spgs, CA	
g ints	۲						BOREHOLE No. MW-28 Sheet 2	2 of 2
mplin	lu/OV ding	t bt	mple	il mple mber	aphic il mbol	mbol		
Bica	IE 4 8	De	Sa	SaNu	ບໍ່ດິດີ	ୁ ଅଞ୍ଚୁ ଅ	Field Soil Description	
		-29-				Rx		
		20			-		Hard light yellowish brown slate. Third Encountered Water at 30.5 Feet.	
		-30-					Water bearing fracture 30.5 feet. Water level rose rapidly. $\nabla$	
		-31-			ſ	Dv		
		32-				кх		
		-33-			-		Very hard light yellowish brown slate.	
		-34-			Total Der	oth 34.05	Total Well Depth = 33.89 Feet.	PLUG
		-35-			(below g	grade)		
		-36-						
		50	-		-			
		37			1			
		-38-						
		39-			-			
		-40-			-			
		-41-			-			
		-42-						
		43						
		11						
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	₹90	G	EC	)	I.				В	OREHO	LE	LITH	IOL	.0G	IC	LO	G			
A GF	ROUND WAT	ER (	CONSU	LT/	4N(	D CY				BOREHOLE N	lo.	MW-	29	Sh	eet	1 of	2			
Project No	.:	Dat	e:	0	7/2	3/0	4	1	Drilling	Co. V&W Dri	lling		Drill	Model		CME E	3K81HD	,		_
Client: The	e Customer	Corr	npany						Drilling	Method-Rotary	/ Auge	er	Bore	ehole D	Diam	eter	8-in			
Location: L	ake Oaks N	Nobile	e Estate	s a	acro	oss	s Patter	son	Finishe	d Well Rim Ele	evatior	י		Dat	tum:	groun	d surfac	ce		
from 13 <u>0 P</u>	leasant Val	lley R	oad, Di	am	non	d S	Spgs, C	A	Boreho	le was comple	ted as	a moni	toring	well N	1W-2	29.				
Logged by:	GDL										Samp	le and	cutting	gs log.						
								Water I	Level	20.85										
R Its								Time		08:15								]		
pling /cour	E eet	ple	ple	hic	4	5	si lod	Date		07/27/04								1		
Sam Blow	Dept f	Sam	Soil Sam Nurr	Grap	Soil	ŝ	USC Soil Sym	-	Field	Soil Descriptio	on (all	contact	s unc	ertain).		То	oC = -0.29			
				П	Ш	Ш	МІ	0.2 Ft.	Asphalt	10) (D 5/0	<u>`</u>		<i>/</i>	, 		8-in	street box	4		
	1_			₩		Ш	IVIL .	sand	sn brow v silt.	n 10YR 5/8 roi	inded	pepple	(to 1.	75-incr	n) co	arse		-		
				1				Yellowi	sh brow	n 10YR 5/8 coa	arse s	andy sil	t.							
	3_														Ν	leat Cerr	nent Grout			
	4_																		Ņ	
																		•	inch	
	5																		P	
	6																	•	°,	
	7																		asi	
	— '																		e Bu	
	8																		Ind	
	9							Dark ve	llowich	brown 10VR /	/6 san	dy silt ()	woath	arad ro	nck)			-	scre	
							ML	Dark ye	5110 W1311		0 San	uy siit (i	weatti	eleuit	ЭСК).				en.	
	10																			
	12_																			
	12																	•		
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	15			1																
	10							harden	ing									•		
	-01			1												_				
		-														Bent	onite Seal			
				111																
	10			₩		₩		Light ye	ellowish	brown 10YR 6	/4 clay	/ey silt v	vith so	cattere	d sla	ite		•		
				1			MĹ	rock	fragmen	ts.	,									
				Ш	Ш	Ш	Rx	Hard sl	ate.											
	21-			Ш														1		
<b>├</b> ── <b>├</b> ─														LON	NEST	AR No. 2	2/12 Sand		(0	
	22-						ML	Light ye	ellowish	brown 10YR 6	/4 clay	/ey silt v	vith so	cattered	d sla	ite			;cre	
$\vdash$		-						rock f	ragmen	ts.									en c	
	24			Ť				Hard sl	ate.										per	
$\vdash$		-		-			Rx	Ground	weathe	red slate.									ning	
	25							2.54.10											II	
$\left  - \right $				┢		_		l ight h	rownich	grav 10YR 6/2	aroun	nd soft s	late						0.0	
							Rx	Light D	5111011	y. uy 10111 0/2	groun								20 ii	
				-				<u> </u>											nch	
		1	ı	L		I		L										1		1

							Location: Lake Oaks Mobile Estates across Patterson	
							from 130 Pleasant Valley Road, Diamond Spgs, CA	
J nts	4						BOREHOLE No. MW-29 Sheet 2	of 2
npling wcour	u/OV/ ding	÷.	nple	l nble nber	I I nbol	CS nbol		
Sar Blo	PID HN rea	test	Sar	Soil Sar Nur	Gra Soil Syr	Soil Soil	Field Soil Description	
		20					Hard slate.	
		-29			_	Rx	Grav to dark grav NA-N5/ ground soft slate	
		-30-			-		Gray to dark gray net nor ground son state.	
		-31-					Hard slate.	
		-32-				Rx		scre
		-33-			_			en o
		-34-			-		Hard slate. LONESTAR No. 2/12 Sand	pen
		35					First Encountered Water at 35.5 Feet.	ings
		22			_	Rx	Dark gray slate.	= 0.
		-36-			_			020
		-37-			_			inch
		-38-						
		-39-	<u> </u>		_		Black slate	
		-40-			-			
		-41-			-			
		-42-						
		12			_			
		-43-	_		_			
		-44-			-			
		-45-				Rx		
		-46-	-		_			
		47-			_			
		-48-			_			
		_49_	╞					
		50			_		Total Well Depth = 49.43 Feet.	PLUG
		-50-	<b> </b>		Total Dep (below c	oth 50.0 grade)	(below reference mark)	
			$\vdash$	<u> </u>	-			
			F		]			
			F		1			
			-		1			
			$\vdash$		_			
			L		-			

	$H_{\Delta}$		ጉገ				E	BOREHO	LE LI	THO	OGIC	C LOO	}	
A	GROUND WA	ter '	CONSU		- - -			BOREHOLE	No. <u>E</u>	EW-1	Shee	t 1 of _	2	
Project	No.:	Dat	e:	12/03/	01		Drilling	g Co. V&W Dri	illing	Dril	I Model	BK81		+
Client:	The Custome	r Con	npany				Drilling	Method-Rotar	y Auger	Bor	ehole Diar	neter 1	5-in	_
Locatio	n: Former Che	eaper!	#182				Finish	ed Well Rim Ele	evation17	42.94	Datum	: ground	surface	-
1	130 Pleasant	Valle	/ Road	, Diamoi	nd Spgs,	CA	Boreh	ole was comple	ted as a r	monitoring	g well EW-	1.		
Logged	by: GDL							40.00	Sample a	and cuttin	gs log.	1		
	~					vvai	ter Level	12.98						
ling ounts	VER' et	<u>e</u>	er er	o ic		T in	ne	9:57						
Samp Blowc	ECO fe	Samp	Soil Samp Numb	Sraph Soil Symb	Soil	Da	ite	12/9/2001	rintion (all	contacts	uncertain			
			0,0,2		<u>ן</u>					Contacto		24-in str	eet box	
						$\vdash$	Full de	epth - solid stem eamed to 15 inc	n auger dr ch	rilling of 5	.5 inch pilo	ot hole, Neat Cemen	t Grout	
	2	_		$\mathbb{N}$		$\square$								8-inc
	3_													h P
	4_													VC o
					ML/SM	$\vdash$	Yellow gravel	<u>10YR 8/8 pebb</u> y clayey silt. No	obly silty c o odor.	layey fine	to coarse	sand/	-	asin
	5													g an
	6-	—		_										d sc
	7-			_										reen
	-8-			_									_	
	9	-		-										
	10			-										
	11			-	-?-									
	12			_										
	13			_										
	13			-										
		-		-			Dark v	ellowish brown	10VR //6	aravelly	silty clavey	sand		
	15			-		Ħ	No od	or.	10111 4/0	gravelly	Sinty Clayey	Janu.		
	-16											Benton	ite Seal	
	17	╘		_		$\vdash$								
				-	SC	F								╸╸
	19-			-		Ħ								
	20-			-		Ħ								
						$\square$								
	21	-		-		$\vdash$							-+	sc
		_		-		Ħ	Yellow	10YR 8/6 grav	elly sitly c	layey san	d. No odoi			reen
				-		Ħ								ope
	-24			_	<b>-?</b> -	╞┼								ning
	25				1	⊢			F	First Encount	ered Water at	25± Feet.		s = 0
				_		$\square$	White	8/1 (due to rock thered schistos	dust) var e rock. W	riably wea /here not	thered to	s		).020
	27	-				Ħ	into sa	ndy clayay silt.	No odor.		LONES	TAR No. 2/1	2 Sand	) incl
	28			_		$\vdash$								

							Location: Across Patterson from former Cheaper! #182	
							T30 Pleasant Valley Road, Diamond Spgs, CA	
g nts	∢						BOREHOLE No. EW-1 Sheet 2	of 2
plin( coui	ΒŐ	, ÷	ple	ple ber	bol	s lo		
Sam. Now	NU/I Nu/i Padi	Dept. est	Sam	Soil	Soil Soil	ščil SC		
<u>о, п</u>		40		5, 0, 2	5 0 0	_ 0,0	Field Soli Description	
		20	-		1		White 8/1 (due to rock dust) variably weathered to	
		-29-					unweathered schistose rock. Where not hard breaks	
		-30-					into sandy clayay silt. No odor.	
		•••						
		-31-	-		-			
		22						
		-32-						
		-33-			_			
		34	<u> </u>		-		White 8/1 (due to rock dust) variably weathered to	
		-34-	L		]		unweathered schistose rock. Where not hard breaks	
		-35-					into sandy clayay silt. No odor.	PLUG
		22	<u> </u>		Total Dar	th 25.5	Total Well Depth = 35 Feet.	
		-36-	-		(below of	rade)	Auger reiusar at 35.5 reet. (Derow reierence mark)	
		~ =			(			
		-37-						
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A	GROUN			E.C Consu	<b>ا ا</b>		U U Y				BOREHOLE 1	No.	EW-2	2	She	et 1 of	f 2	2
Projec	t No :		Dat	o.	06	\$/22	2.0	17/08/	04	Drilling		illing		Drill	Model	CME	BK81	
Client:	The Cu	stomer	Corr	e. Ipany	00	)/22	. α ι	1700/	04	Drilling	Method-Rotar	/ Auge	r	Bore	hole Dia	ameter	12-in	
Locatio	on: Form	er Chea	aper!	#182						Finishe	ed Well Rim Ele	evation		-	Datur	n: grou	ind surfa	ace
	130 Ple	asant \	/alley	/ Road,	Dia	amo	ond	Spgs,	CA	Boreho	le EW-2t was	comple	ted as e	extrac	tion wel	I EW-2.		
Logge	d by:	GDL									T	Samp	le and c	utting	s log.			
									Water I	_evel	14.41	14	.75					
ng	ΈRΥ t		0		0	_		_	Time		08:55	08	8:45					
amplii lowco	fee	epth ist	ample	oil ample umbe	raphic	oil vmbo	scs	ymbo	Date		07/21/04	07/2	23/04					
мш	RE	5 ₽	s	00Z	0	იი		000	Dark br	Fown 10	YR 3/3 clayey	ription gravelly	all cont	acts u	incertair	ר). 18-i	in street bo	x
		—1—						SC	-	No odc	or.					Neat Ce	ement Grou	6-in
		-2-			1											Hour or		F
		_3_																Š
		_1_																casi
		-4-			$\frac{1}{1}$				Dark ve	ellowish	brown 10YR 4	/6 grav	ellv san	dv silt				s bu
		- 5 -						ML	Dantje	No odc	pr.	o grav	ony our	ay one				nd g
		-6-																scre
		-7-																en.
		-8-			$\left\  \right\ $													-
		-9-			1											De	ntanita Car	
		-10-			Ш			ົ	Deale		5V 0/0			-:14 . 6		De	monile Sea	
		-11-			╢		Τ	f ML	Dark of	ive gray	5Y 3/2 graveli	y sandy	/ clayey	SIIT. IN	10 000r.			
		12			╫		+	?	Dark ol	ive gray	5Y 3/2 sandy	clayey	silt.					-
		-12-			]			N // I										-
		-13-			1													
		-14-			╢													
		-15			╢				Dark ol	ive gray	5Y 3/2 sandy	clayey	silt.					-
		-16-			$\frac{1}{1}$			ML					First En	counter	ed Water a	at 16± Fee	et. 🗸	-
		-17-			1													
		-18-																
		_10_																
	$\left  - \right $	20			-													-
		-20-			-		'	wRx	Gray to	dark gr	ay N4-N5/ vari or.	ably we	eathered	l to ur	weathe	red slat	te.	-
		-21-													1.0		No. 0.0-	
		-22-													LO	INESTAR	INO. 3 San	u l
							1											
		-23-																
		-23- -24-																
		-23- -24- -25-			-			wR×	Groute	darke	OV NA NE/VOS	ably we	atheres	to u	wootha	rod ale	20	
		-23- -24- -25- -26-			-		,	wRx	Gray to	dark gr No odo	ay N4-N5/ vari	ably we	eathered	l to ur	nweathe	red slat	te.	
		-23- -24- -25- -26- -27-					,	wRx	Gray to	dark gr No odc	ay N4-N5/ vari r.	ably we	eathered	l to ur	weathe	red slat	te.	



