Edd Clark & Associates, Inc.
Environmental Consultants

January 26, 2006
Job No.: 0302,001.97

Emil Shokohi
% Mansor Shokohi
P.O. Box 866
Albion, CA 95410

Groundwater Monitoring Report - September 2005 Event
Former Albion Shell
3300 Highway 1 North
Albion, California

Dear Mr. Shokohi:

This report presents the results of Edd Clark & Associates, Inc.'s (EC&A's) September 30, 2005 groundwater monitoring activities completed in the vicinity of the former Albion Shell Station, 3300 Highway 1 North (site) in Albion, California (Figure 1). Groundwater monitoring has been conducted quarterly at the site and near-site vicinity since October 1999 at the request of the North Coast Regional Water Quality Control Board (NCRWQCB) because of a release of fuel hydrocarbons (FHCs) to soil and groundwater from underground storage tanks (USTs) for gasoline formerly located at the site. Groundwater monitoring for the September 2005 event was conducted in accordance with the NCRWQCB's July 8, 2004, revised *MRP No. R1-2004-0061* and with verbal revisions to this MRP agreed upon by the NCRWQCB and EC&A on September 30, 2005. In the Sept 15, 2005 report of the June 2005 sample event, EC&A recommended the elimination of MW-1, MW-5, MW-8, MW-9, MW-11, and MW-12 from the monitoring program. The NCRWQCB requested that these wells be sampled annually in the first quarter (possibly second, depending on seasonal rainfall). The September 2005 monitoring event is the fourth monitoring event conducted at the site since activation of the ozone microsparging systems on November 1, 2004. A copy of this report will be sent to the NCRWQCB and to the Mendocino County Environmental Health Department (MCEHD) for their review.

Completed Scope of Work

Work performed for the September 2005 sampling event included:

- Measuring depth to water (DTW) in monitoring wells MW-1, MW-2 and MW-5 through MW-18;
- Calculating the groundwater-flow direction and gradient;
- Collecting groundwater samples for chemical analyses from MW-2, MW-6, MW-7, MW-10, MW-13 through MW-18, the water-supply well servicing the site (DW-1), one of the water-supply wells servicing the Ledford House Restaurant (LHW-2) and a surface-water sample from the duck pond (DP);
- Measuring ozone microsparging groundwater parameters from MW-2, MW-6, MW-7, MW-10 and MW-13 through MW-18;
- Evaluating the results of the calculations and sample analyses; and
- Preparing this report.

P.O. Box 3039, Rohnert Park, CA 94927-3039
Telephone (707) 792-9500
Fax (707) 792-9504
corpmail@ecaenviron.com

Monitoring Wells

Water-level Measurements

On September 30, 2005, EC&A personnel measured groundwater levels in MW-1, MW-2 and MW-5 through MW-18. DTW below the top of the well casing (TOC) in each well was measured to the nearest 0.01 foot (ft) with a water-level meter. The meter was cleaned and rinsed prior to taking measurements in each well. Groundwater-level measurements were recorded after the well caps were removed and groundwater in the wells was allowed to equilibrate for a minimum of 15 minutes. DTW ranged from 4.31 ft in MW-15 to 15.28 ft in MW-8; groundwater-flow direction and gradient in the vicinity of the former USTs were S78°W and 0.073 ft/ft, respectively (Figure 3 and Table 1). Water-level data from MW-13 and MW-14 were not used to calculate the groundwater-flow direction and gradient because these wells are deep wells and are screened within bedrock.

Groundwater Field Logs containing the DTW measurements are in Appendix A. DTW data will be electronically submitted to the State GeoTracker Internet Database.

Monitoring Well Groundwater Sampling Procedures

On September 30, 2005, EC&A personnel collected groundwater samples from MW-2, MW-6, MW-7, MW-10 and MW-13 through MW-18. Prior to collecting samples, the monitoring wells were purged with a submersible pump and the purged water checked for the presence of free-floating product. Free-floating product was not present in the purged water; however, an odor of FHCs was detected in water purged from MW-2, MW-6, MW-15, MW-16 and MW-18. Groundwater pH, temperature, electric conductivity and dissolved oxygen (DO) were measured during purging of the wells at intervals of approximately one well-casing volume. Groundwater samples were collected from the wells after groundwater parameters stabilized and either the water level returned to a minimum of 80% of the initially recorded water level or sufficient groundwater re-entered the well. Purge volumes and groundwater-quality parameters are recorded on the Field Logs in Appendix A.

Groundwater samples were collected in new single-sample, disposable bailers fitted with disposable bottom-emptying devices to minimize degassing of samples to be analyzed for volatile chemical constituents. Samples were transferred from the bailers to properly labeled, laboratory-supplied sterile sample containers, placed on ice and transported under chain-of-custody control to McCampbell Analytical, Inc. (MAI) for chemical analysis. MAI is a state-certified laboratory in Pacheco, California.

Monitoring Well Groundwater Sample Analysis and Analytical Results

All groundwater samples collected from the monitoring wells were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g) and benzene, toluene, ethylbenzene and xylenes (BTEX) by Analytical Methods SW8021B/8015Cm, and methyl tert-butyl ether (MTBE) and other gasoline oxygenates by Analytical Method SW8260B.

TPHg and benzene were detected in groundwater samples collected from MW-2, MW-6, MW-15, MW-16 and MW-18. TPHg concentrations ranged from 3700 micrograms per liter (µg/l) in MW-2

to 91,000 µg/l in MW-15; benzene concentrations ranged from 410 µg/l (MW-2) to 17,000 µg/l (MW-15). Toluene, ethylbenzene and/or xylenes were also detected in MW-2, MW-6, MW-13 through MW-16 and MW-18 with the maximum concentrations in MW-15 (11,000 µg/l, 1500 µg/l and 6700 µg/l, respectively).

MTBE was detected in groundwater samples from MW-2, MW-6, MW-10 and MW-13 through MW-18 at concentrations ranging from 22 µg/l (MW-17) to 63,000 µg/l (MW-16). T-butyl alcohol (TBA) was detected in MW-2 and MW-13 at 1800 µg/l and 31 µg/l, respectively.

Analytical results for FHCs and oxygenates are presented in Table 2. Figures 5, 6 and 7 are isoconcentration maps of TPHg, benzene and MTBE, respectively, in groundwater. A complete copy of the analytical laboratory report is in Appendix B. The results of the analyses of the samples will be electronically submitted to the State GeoTracker Internet Database.

Water-supply Wells and Surface Water

On September 30, 2005, EC&A personnel collected groundwater samples from onsite water-supply well DW-1, offsite Ledford House Restaurant water-supply well LHW-2, and a surface-water sample from the duck pond (DP). Surface water was not present in sample locations SW-1 and SW-4 located in the southwest and northwest drainages, respectively.

Water-supply Wells and Surface-water Sampling Procedures

Sample DW-1 was collected from the closest tap to the well head after the tap ran for approximately 15 minutes. Sample LHW-2 was collected from a faucet located on the east side of the restaurant building. EC&A understands that water-supply wells LHW-1 and LHW-2 are plumbed together and water from these wells is stored and chlorinated in a single holding tank and then pumped to the Ledford House Restaurant. However, for the September 2005 event, restaurant staff reported that only LHW-2 was in service.

Surface-water sample DP was collected from the northwest corner of the duck pond (approximately 2 to 3 ft below the surface) by lowering sterile, laboratory-supplied sample containers directly into the water, avoiding contact with soil or other materials.

Water-supply Wells and Surface-water Sample Analysis and Analytical Results

Samples from DW-1, LHW-2 and DP were analyzed for TPHg and BTEX by Analytical Methods SW8021B/8015Cm, and for MTBE and other gasoline oxygenates by Analytical Method SW8260B.

FHCs were not detected in the samples collected from the water-supply wells nor the duck pond. Table 3 presents analytical results for samples collected from water-supply wells and surface waters. A complete copy of the analytical laboratory report is in Appendix B. The results of the analyses of the samples will be electronically submitted to the State GeoTracker Internet Database.

Decontamination Procedures

Sampling equipment was cleaned onsite with a low-phosphorous solution and double rinsed with tap water. Decontamination water and monitoring well purge water were placed in properly labeled, DOT 17H 55-gallon drums for temporary, onsite storage.

Ozone Microsparging Groundwater Parameters
As required by the NCRWQCB in the revised *MRP No. R1-2004-0061*, groundwater samples from MW-2, MW-6 and MW-15 through MW-18 were also analyzed for the inorganic anions bromate and bromide (by Analytical Method E300.1) and dissolved metals hexachrome (by Analytical Method E218.6), molybdenum, selenium and vanadium (by Analytical Method E200.8). Field measurements for dissolved oxygen (DO), oxidation reduction potential (ORP), temperature and pH were collected from these wells to monitor the effectiveness of the ozone microsparging system. Measurements were collected after at least one well-casing volume was purged from each well. Although not required by the NCRWQCB, field measurements for DO, ORP, temperature and pH were measured in all monitoring wells sampled for this event.

Bromide was detected in samples collected from MW-2, MW-6 and MW-15 through MW-18 at concentrations ranging from 0.13 milligrams per liter (mg/l) in MW-17 to 1.5 mg/l in MW-15 and MW-18. Molybdenum was detected in MW-2 and MW-15 through MW-18 at concentrations ranging from 0.57 µg/l (MW-18) to 1.9 µg/l (MW-16 and MW-17). Selenium was detected in MW-15 and MW-16 at 0.82 µg/l and 0.78 µg/l, respectively. Vanadium was detected in MW-17 at 0.68 µg/l. None of the dissolved metal concentrations detected to date exceed their respective Water Quality Objectives (WQO; Table 4).

Analytical results for inorganic anions and dissolved metals are presented in Table 4; the results of the analyses of the samples will be electronically submitted to the State GeoTracker Internet Database. A complete copy of the analytical laboratory report is in Appendix B.

The locations of the sparge wells and trench system are shown on Figure 4. DO, ORP, temperature and pH field measurements are provided in Table 5. Ozone system Operation and Maintenance (O&M) comments are presented in Table 6.

DISCUSSION AND RECOMMENDATIONS

Groundwater Flow/Gradient
Groundwater-flow direction at the site continues to be to the southwest, ranging from S47°W to S78°W, with a gradient ranging from approximately 0.05 ft/ft to 0.1 ft/ft. Comparison of the potentiometric-surface elevations previously measured in paired wells MW-7/MW-14 and MW-10/MW-13 shows that a downward hydraulic gradient is present at these locations.

- The head differences between deep well MW-13 and shallow-water-table well MW-10 were as follows: -0.08 ft on May 23, 2002; -0.04 ft on August 27, 2002; -0.06 ft on November 27, 2002; -0.07 ft on February 11, 2003; -0.07 ft on May 28, 2003; -0.05 ft on August 26, 2003; -0.03 ft on November 25, 2003; -0.15 ft on February 26, 2004; -0.86 ft on May 27, 2004; -0.07 ft on August 26-27, 2004; +0.1 ft on March 30, 2005; -0.07 ft on June 22, 2005; and 0.00 ft on September 30, 2005.

- The head difference between deep well MW-14 and shallow-water-table well MW-7 were as follows: -5.80 ft on June 14, 2002; -3.81 ft on August 27, 2002; -4.08 ft on November 27, 2002; -4.67 ft on February 11, 2003; -4.20 ft on May 28, 2003; -3.81 ft on August 26, 2003; -3.77 ft on November 25, 2003; -3.58 ft on February 26, 2004; -3.7 ft on May 27, 2004; -2.98 ft on August 26-27, 2004; -3.85 ft on March 30, 2005; -3.16 ft on June 22, 2005; and -3.76 ft on September 30, 2005.

Groundwater Quality

Monitoring Well Groundwater Samples

To date, non-detectable or minor concentrations of one or more BTEX compounds have been reported in MW-1, MW-5, MW-7, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14 and MW-17. Sporadic, minor concentrations of MTBE have been detected in MW-5, MW-7 (since the startup of the ozone systems), MW-8 and MW-9, which are located at the margin of the MTBE plume. Non-detectable or minor concentrations of TPHg and/or BTEX components, but relatively high concentrations of MTBE, have been detected in wells MW-7, MW-10, MW-13, MW-14 and MW-17.

Historically, the highest concentrations of TPHg, benzene and MTBE (analyzed by Method SW8260B) have been detected in destroyed monitoring wells MW-3 and MW-4 and monitoring wells MW-15 and MW-16, at maximum concentrations of 130,000 µg/l, 38,000 µg/l and 690,000 µg/l, respectively (MW-3, January and May 2000). After the destruction of MW-3 and MW-4 (2000 and 2001, respectively) and prior to the August 2004 event, the greatest concentrations of these analytes in the existing wells were detected in wells MW-2 and MW-6; however, concentrations of TPHg, benzene and MTBE in recently installed wells MW-15, MW-16 and MW-18 were either comparable to, or exceeded the historic maximum concentrations detected in MW-2 and MW-6.

In MW-2, which is located down-gradient from Remediation Trench RT1, TPHg, benzene and MTBE have been detected at maximum concentrations of 17,000 µg/l (January 2000), 2400 µg/l (May 2000) and 29,000 µg/l (August 2003), respectively. In March 2005, TBA was detected for the first time since April 2001 in MW-2 (4400 µg/l). For the September 2005 event, TBA was detected in MW-2 at 1800 µg/l. Between the June and September 2005 events, the concentration of TPHg increased significantly from 990 µg/l to 3700 µg/l, the concentration of benzene increased from 220 µg/l to 410 µg/l, and the MTBE concentration increased from 6000 µg/l to 6500 µg/l in MW-2.

In MW-6, which is located down-gradient from Remediation Trench RT2, TPHg, benzene and MTBE have been detected at maximum concentrations of 31,000 µg/l (July 2001), 3100 µg/l (December 2000 and July 2001) and 17,000 µg/l (September 2000), respectively. Between the June and September 2005 events, the concentration of TPHg increased from 11,000 µg/l to 13,000 µg/l, the concentration of benzene increased from 740 µg/l to 920 µg/l and the MTBE concentration increased from 4900 µg/l to 8200 µg/l. There appears to be a relationship between seasonal groundwater elevations and concentration of FHCs in MW-6. As groundwater rises, the concentrations of TPHg, benzene and MTBE decrease; as groundwater levels drop, concentrations increase.

In MW-15, which is located near the northern margin of the FHC plume, the September 2005 event showed the highest concentrations of FHCs to date in that well (91,000 µg/l TPHg, 17,000 µg/l benzene and 28,000 µg/l MTBE). Additionally, the maximum TPHg and benzene concentrations for the September 2005 event were detected in MW-15. Between the June and September 2005 events, the concentration of TPHg increased from 79,000 µg/l to 91,000 µg/l, the concentration of benzene increased from 14,000 µg/l to 17,000 µg/l, and the concentration of MTBE increased from 22,000 µg/l to 28,000 µg/l in MW-15.

In MW-16, which is located down-gradient of the former USTs and up-gradient of Trench RT1, concentrations of TPHg have ranged up to 67,000 µg/l (March 2005); benzene has ranged up to 12,000 µg/l (June 2005); and MTBE has ranged up to 63,000 µg/l (September 2005). The maximum MTBE concentration for the September 2005 event was detected in MW-16. TBA was detected in MW-16 for the first time at a concentration of 16,000 µg/l in March 2005. In September 2005, TBA was not detected in MW-16; however, the reporting limit was 10,000 µg/l. Between the June and September 2005 events, the concentration of TPHg decreased from 62,000 µg/l to 45,000 µg/l, the concentration of benzene decreased from 12,000 µg/l to 9600 µg/l and the concentration of MTBE increased from 45,000 µg/l to 63,000 µg/l in MW-16.

TPHg and BTEX compounds have not been reported from MW-17, which is located in the backfill of the December 2000 over-excavation; the MTBE concentration in this well increased slightly from 20 µg/l in June 2005 to 22 µg/l in September 2005.

In MW-18, which is located down-gradient of the former USTs and up-gradient of Trench RT2, concentrations of TPHg have ranged up to 28,000 µg/l (August 2004); benzene has ranged up to 5200 µg/l (December 2004); and MTBE has ranged up to 32,000 µg/l (September 2005). TBA was detected in MW-18 for the first time in March 2005 at a concentration of 6500 µg/l; however, in previous events the reporting limit has ranged from 5000 µg/l to 10,000 µg/l. Between the June and September 2005 events, the concentration of TPHg decreased from 14,000 µg/l to 9900 µg/l, the concentration of benzene decreased from 2100 µg/l to 2000 µg/l and the concentration of MTBE increased from 19,000 µg/l to 32,000 µg/l in MW-18, the highest concentration of MTBE detected to date in that well.

In samples from the paired shallow and deep wells MW-10 and MW-13 from May 2002 to September 2005, the MTBE concentration has been lower in the deep well (MW-13). MTBE concentrations in MW-13 typically are about an order of magnitude lower than the concentrations in MW-10.

At the MW-7/MW-14 pair, from November 2002 to September 2005, the MTBE concentration has been lower in the shallow well (MW-7). The MTBE concentration in shallow well MW-7 has declined from 2400 µg/l in December 2000 to ND in August 2004 through September 2005. In deep well MW-14, the MTBE concentration has declined from 460 µg/l in May and August 2003 to 94 µg/l in September 2005.

TBA was detected in destroyed well MW-3 at 50,000 µg/l in January 2000. In the existing monitoring wells, TBA has been detected in MW-2, MW-6, MW-10, MW-13 and MW-15 through MW-18 at a maximum concentration of 16,000 µg/l (MW-16, March 2005). For the September 2005 event, TBA was detected in MW-2 at 1800 µg/l. The reporting limit for TBA ranged from ND<5.0 µg/l to ND<10,000 µg/l in samples from the other existing wells.

The lateral extent of the TPHg, benzene and MTBE plumes in groundwater are indicated on Figures 5, 6 and 7, respectively. These figures show that the FHC plume in groundwater forms two lobes: one extending toward the west from the location of the former USTs and pump island (northwest plume), and one extending southwest from the duck pond (southwest plume). The southwest lobe is the largest of the two lobes.

Historically, isoconcentration maps of the FHC plume have indicated that the MTBE portion of the plume within both lobes had migrated the farthest from the source of the release. The maximum extent of the MTBE plume in the southwest lobe is in the vicinity of the MW-10/MW-13 well pair; MTBE concentrations in these wells fluctuate between monitoring events, and appear to be declining overall.

Comparison of MTBE concentrations in the November 2002 through September 2005 sampling events shows that the down-gradient extent of the northwest lobe has retreated from near MW-9 in November 2002 and February 2003, to east of MW-7, which was ND for the third consecutive time in September 2005. Previously, MTBE concentrations in MW-7 have been as high as 2400 µg/l (December 2000). Residual concentrations of MTBE remain in groundwater in shallow bedrock at the location of MW-14 (94 µg/l).

Water-well and Surface-water Samples

To date, FHCs have not been detected in water samples collected from water-supply well DW-1 servicing the site, the well pond (WP-1) next to DW-1, water-supply wells LHW-1/LHW-2 servicing the Ledford House Restaurant, the Ledford House pond, nor the northwest drainage (SW-3 and SW-4). MTBE has been detected in water samples collected from the southwest (duck pond) drainage (SW-1 and SW-2) at concentrations up to 62 µg/l (SW-1, January 2002). In June 2005 MTBE was detected at 2.5 µg/l in SW-1.

Generally, the duck pond has been sampled quarterly since September 1999. Historically, MTBE detections in the duck pond have ranged from 14 µg/l (September 1999) to 420 µg/l (May 2000). Following the October 2003 installation of a High Density Polyethylene (HDPE) liner in the duck pond, MTBE concentrations have been below the reporting limit of <0.5 µg/l.

Ozone Microsparging Remediation Evaluation

Comparison of pre-ozone microsparging (August 2004 sampling event) TPHg, benzene and MTBE concentrations with those from the September 2005 sampling event show that in the area of RT1 (northwest plume), benzene and MTBE concentrations in MW-2 (down-gradient from RT1) have decreased since August 2004; TPHg has fluctuated significantly between sampling events. TPHg,

benzene and MTBE concentrations increased significantly in MW-15 (cross-gradient from RT1 and down-gradient from T1SP-8) and in MW-16 (up-gradient from RT1).

In the area of RT2 (southwest plume), TPHg and benzene concentrations in MW-6 (down-gradient from RT2) have decreased since August 2004; MTBE concentrations in MW-6 have risen. Comparison of data from August 2004 and September 2005 show the concentration of TPHg in MW-6 to be 13,000 µg/l for both events; however, concentrations have fluctuated significantly between these two events, decreasing to 9500 µg/l in March 2005. In MW-18 (up-gradient from RT2), TPHg and benzene concentrations have decreased since August 2004, and MTBE concentrations have increased.

MTBE concentrations in MW-17, which is located in the December 2000 over-excavation, have decreased from the pre-ozone microsparging concentration of 250 µg/l (August 2004) to 22 µg/l in September 2005.

The overall increase in FHC concentrations in groundwater following startup of the ozone system probably represents either mobilization of FHCs previously adsorbed to soil below the water table as a result of the injection of ozone and oxygen to groundwater, or an unusually high groundwater table due to higher than average rainfall.

Comparison of the inorganic anions and dissolved metals analytical results from the August 2004 pre-ozone microsparging sampling event with those from subsequent sampling events show that, to date, ozone injection has not significantly mobilized these analytes in groundwater (Table 4).

Dissolved oxygen (DO) concentrations are similar to those measured in previous monitoring events. The highest DO concentrations were measured in the un-impacted wells (MW-7, MW-8, MW-9, MW-11 and MW-12) and the two deep wells (MW-13 and MW-14). MW-5 is the only un-impacted well that has low DO concentrations (0.22 ppm, Table 6).

Recommendations

Groundwater monitoring should continue to be performed at the site. The monitoring program should continue be evaluated with respect to minimizing the sampling frequency and/or laboratory analyses of selected sampling locations. The ozone microsparging systems should continue to be inspected on a monthly basis and during sampling events.

In the report of the June 22, 2005 groundwater monitoring event, EC&A recommended that monitoring of MW-1, MW-5, MW-8, MW-9, MW-11 and MW-12 be discontinued.

On December 2, 2005, EC&A discussed the monitoring program with the NCRWQCB with respect to possible changes for the next sampling event, which is scheduled for late December 2005. The NCRWQCB provisionally agreed to modify the groundwater monitoring program for December 2005 as follows:

- Sample monitoring wells MW-2, MW-6, MW-9, MW-11, MW-15, MW-16, MW-17 and MW-18, water wells DW-1 and LHW-1/LHW-2 and surface water sample locations DP, SW-1 and SW-4;
- MW-2, MW-6, MW-15, MW-16, MW-18, DW-1, LHW-1/LHW-2 analyzed for TPHg/BTEX and oxygenates (8260B); and,
- MW-9, MW-11, MW-17, DP, SW-1 and SW-4 for oxygenates (8260B).

Additionally, as required by *MRP No. R1-2004-0061*, groundwater samples from wells MW-2, MW-6 and MW-15 through MW-18 will be analyzed for bromide, bromate, hexachrome, vanadium, selenium and molybdenum by Analytical Methods E300.1/E218.6/E200.8. Field measurements for DO, ORP, temperature and pH will also be measured in these wells. EC&A will confirm the modifications to the monitoring program for December 2005 with the NCRWQCB prior to collecting samples.

The owners of the neighboring property have requested that the NCRWQCB consider the abandonment of MW-8 and MW-12. In MW-8, FHC concentrations have been non-detect except for detections of benzene, toluene, xylenes and MTBE at 0.67 µg/l, 2.1 µg/l, 1.9 µg/l and 1.3 µg/l, respectively, in September 2000 and a detection of xylenes at 1.5 µg/l in August 2003. In MW-12, FHC concentrations have been non-detect except for a one-time detection of benzene, ethylbenzene, and xylenes at 0.57 µg/l, 0.63 µ/l, and 1.5 µ/l, respectively, in May 2004. However, because the MTBE concentration in MW-10 in the September 2005 monitoring event was the highest detected to date in that well (1400 µg/l), EC&A has concerns about the stability of the perimeter of the southwestern lobe of the MTBE plume. EC&A believes that groundwater samples should be collected from MW-8 and MW-12 for at least one more monitoring event before making a decision in this matter. These monitoring wells are scheduled to be sampled in March 2006 during seasonally high water table levels when the migration of MTBE in groundwater is expected to be at its maximum. Additionally, assuming the analytical results from the March 2006 event confirm the stability of the MTBE plume, MW-8 and MW-12 should not be abandoned until the ground surface is dry enough to minimize any adverse impacts to the ground surface from the drill rig.

Schedule

The next groundwater sampling event is a quarterly event and is scheduled for late December 2005 (fourth quarter event).

Limitations

The conclusions presented in this report are professional opinions based on the data presented, including data generated by others. Whereas EC&A does not guarantee the accuracy of information supplied by third parties, we reserve the right to use this information in formulating our professional opinions. They are intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the site property can occur with time because of natural processes or the works of man on the site or adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Thank you for allowing EC&A to provide continued environmental consulting services for you. Please call John Calomiris, EC&A project manager, if you have any questions.

Sincerely,

Etta Jon VandenBosch
Environmental Scientist

Richard Ely, PG #4137
Senior Geologist

PROFESSIONAL GEOLOGIST
Richard W. Ely
No. 4137
STATE OF CALIFORNIA

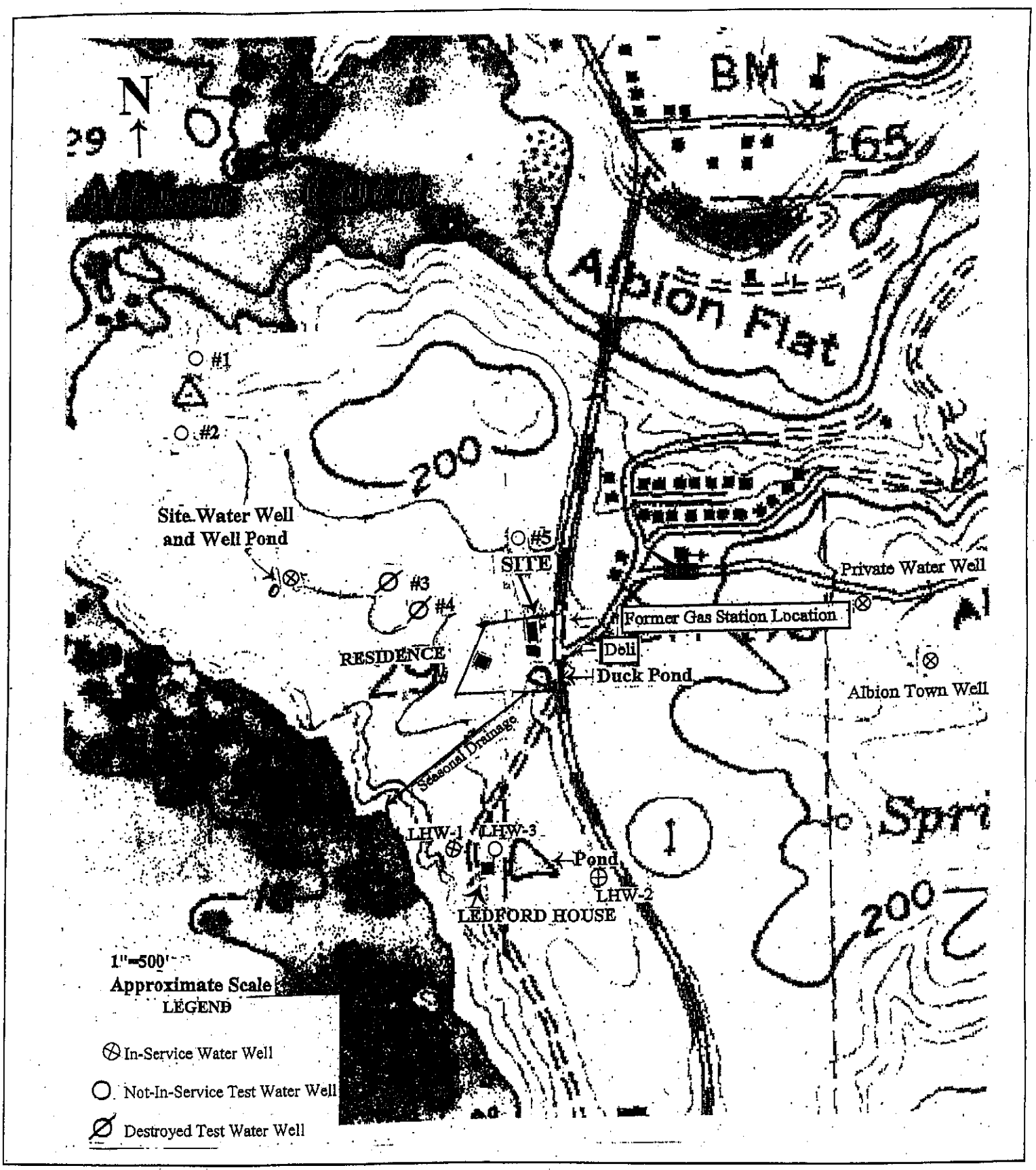
Attachments: Figure 1 - Site Location Map
Figure 2 - Site Plan
Figure 3 - Groundwater Elevation Map, 30 September 2005
Figure 4 - Remediation Trench, Sparge Point, and Recent Monitoring Well Locations
Figure 5 - Isoconcentration Map of TPHg in Groundwater, 30 September 2005
Figure 6 - Isoconcentration Map of Benzene in Groundwater, 30 September 2005
Figure 7 - Isoconcentration Map of MTBE in Groundwater, 30 September 2005

Table 1 - Groundwater Elevation Data
Table 2 - Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Table 3 - Water-supply Wells, Test Wells and Surface Water Sample Analytical Results
Table 4 - Monitoring Well Groundwater Sample Analytical Results: Inorganic Anions and Dissolved Metals
Table 5 - Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH
Table 6 - Ozone System Operations and Maintenance Log

Appendix A - Groundwater Field Logs
Appendix B - Laboratory Analytical Report
Appendix C - O&M Logs

cc: Mr. Craig Hunt, North Coast Regional Water Quality Control Board
Mr. George Hynek, Mendocino County Environmental Health Department
Mr. Paul Hoffey, Erler & Kalinowski, Inc.
Bruce & Carol Smith

0302\QMR Sept05

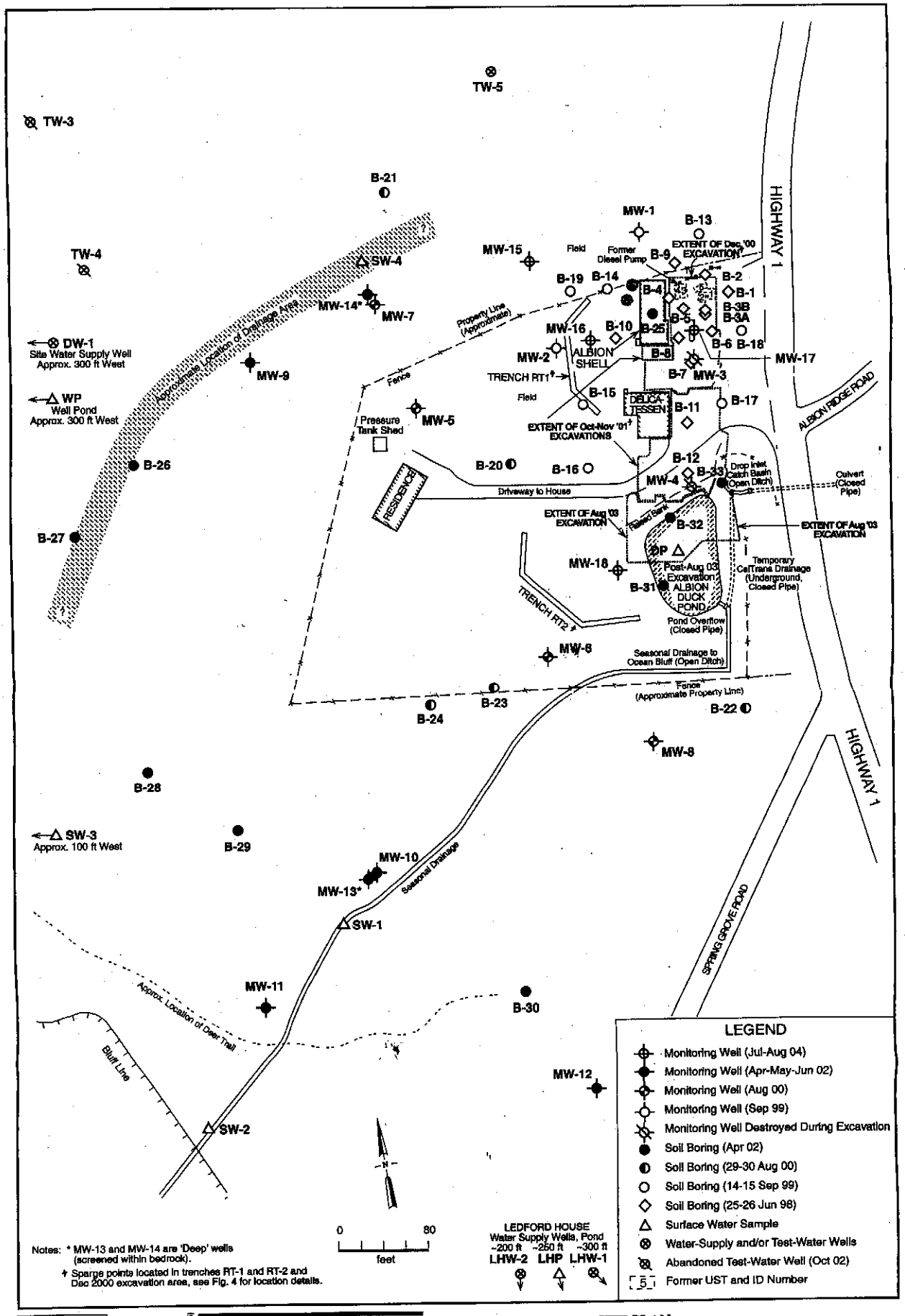


EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

Site Location Map
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE
1

JOB NUMBER: 0302,001.97 REVIEWED BY: J. Calomiris Date: January 2004 REVISED DATE:



Notes: * MW-13 and MW-14 are 'Deep' wells (screened within bedrock).
† Sparge points located in trenches RT-1 and RT-2 and Dec 2000 excavation area, see Fig. 4 for location details.

FIGURE 2
SHEET NO. 1 of 1

(TRACE #340/R9/20/Apr05)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

SITE PLAN
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0302,001.97	EC&A, E.J. VandenBosch	February 2002	April 2005	1 of 1

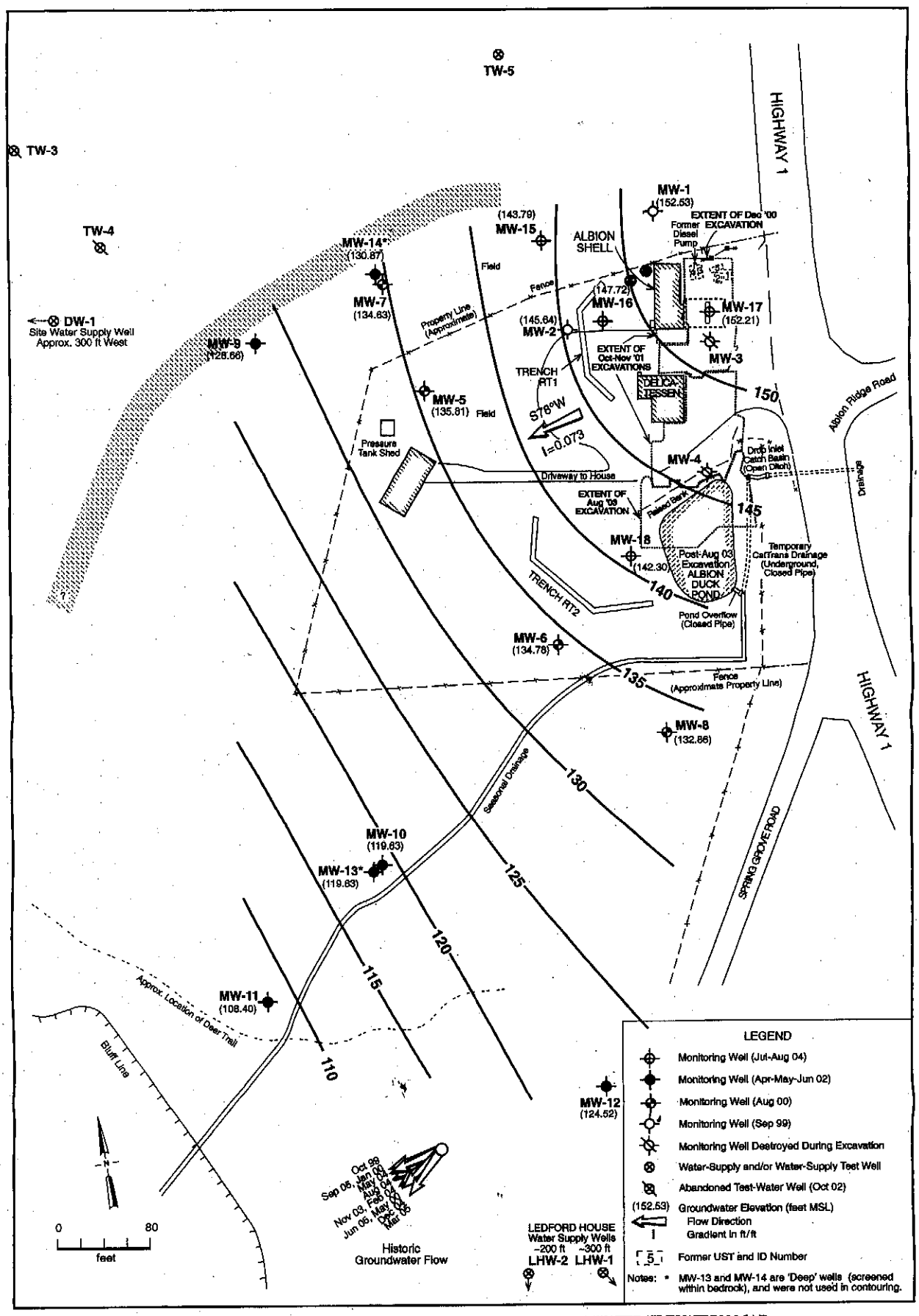


FIGURE 3
SHEET NO. 1 of 1

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

(TRACE #340/RG21 Nov05)

GROUNDWATER ELEVATION MAP,
30 September 2005
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE
3

JOB NUMBER	0302,001.97	REVIEWED BY	EC&A, Richard Ely	DATE	February 2002	REVISED DATE	November 2005	SHEET NO.	1 of 1

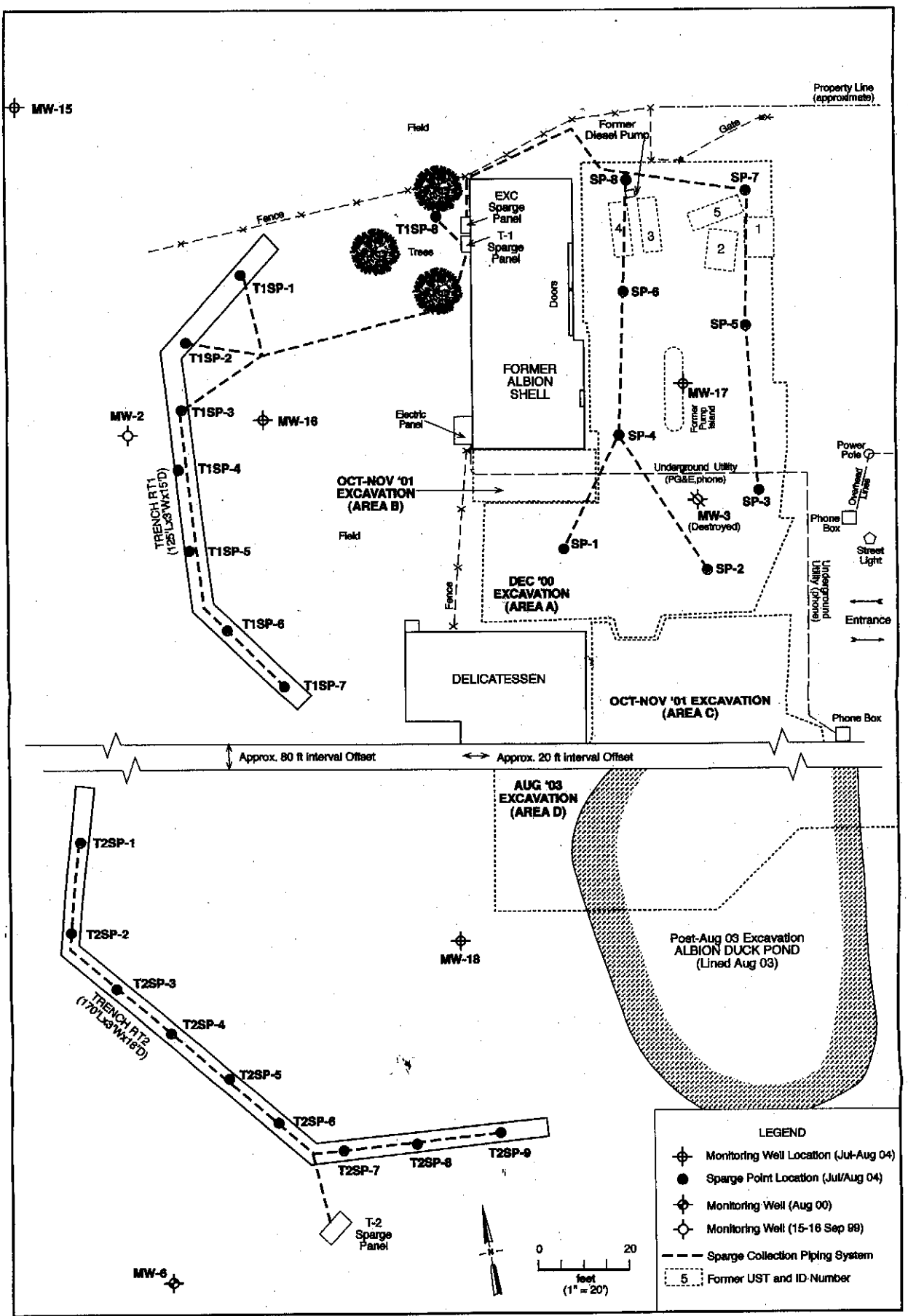


FIGURE 4

SHEET NO. 1 of 1

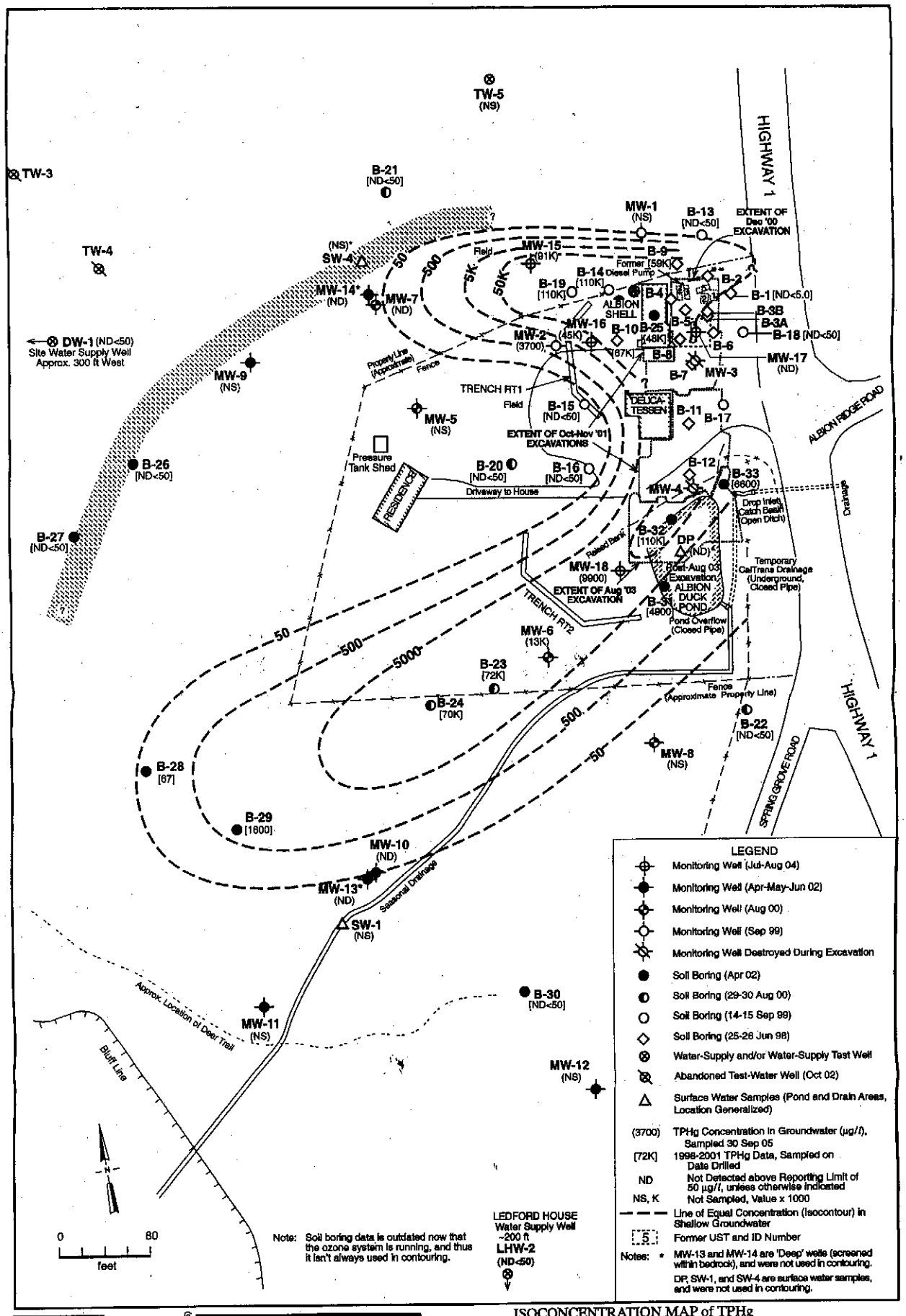
(TRACE #340/RG/14Jan05)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

REMEDIATION TRENCH, SPARGE POINT, and RECENT MONITORING WELL LOCATIONS
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 4

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0302,001.97	EC&A, John Calomiris	February 2002	January 2005	1 of 1



EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

ISOCONCENTRATION MAP of TPHg
in GROUNDWATER, 30 September 2005

Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 5

JOB NUMBER	0302,001.97	REVIEWED BY	EC&A, Richard Ely	DATE	February 2002	REVISED DATE	November 2005	SHEET NO.	1 of 1

FIGURE 5
SHEET NO. 1 of 1

(TRACE 8340/R1/2/28/Nov/05)

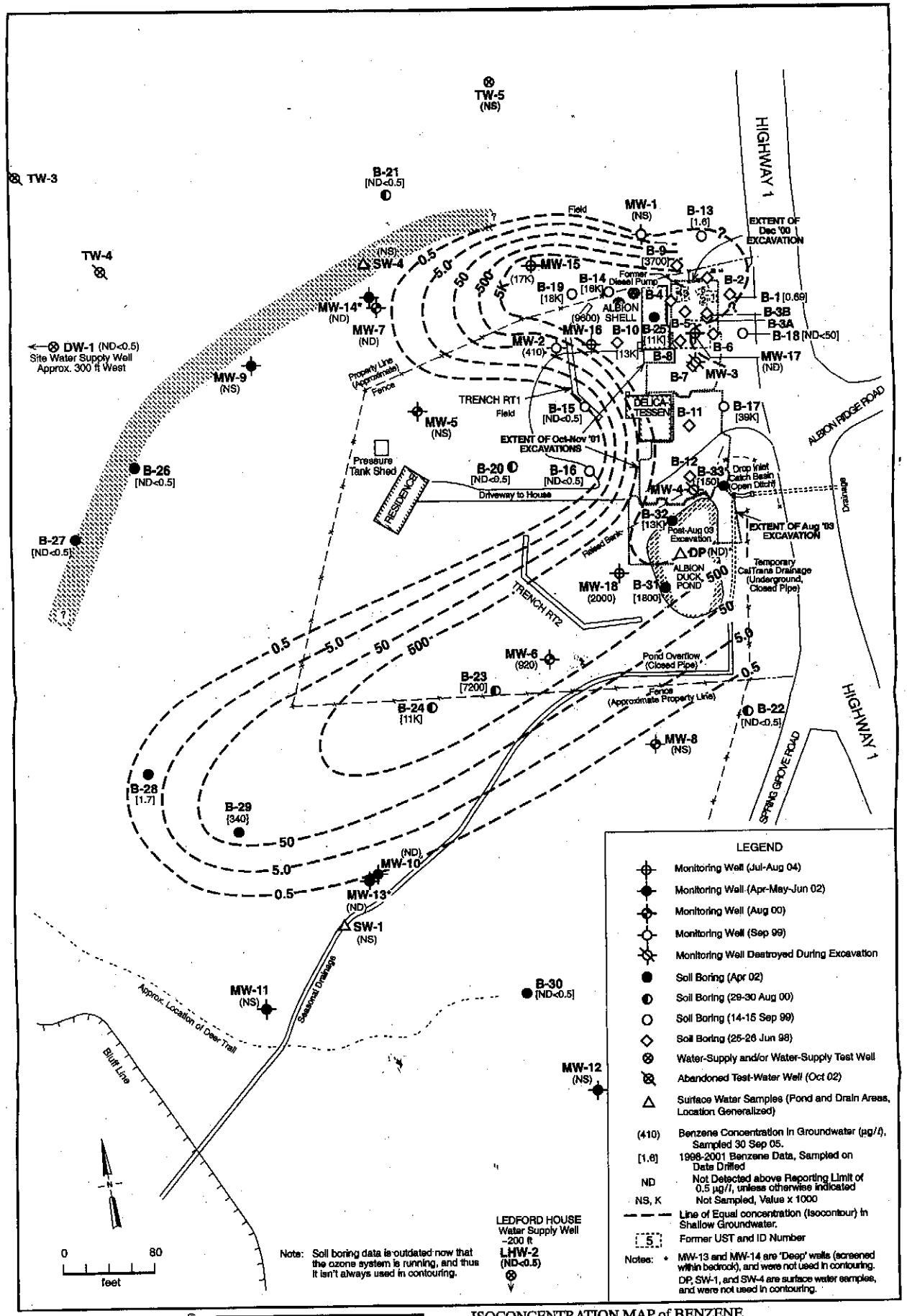


FIGURE 6
SHEET NO. 1 of 1

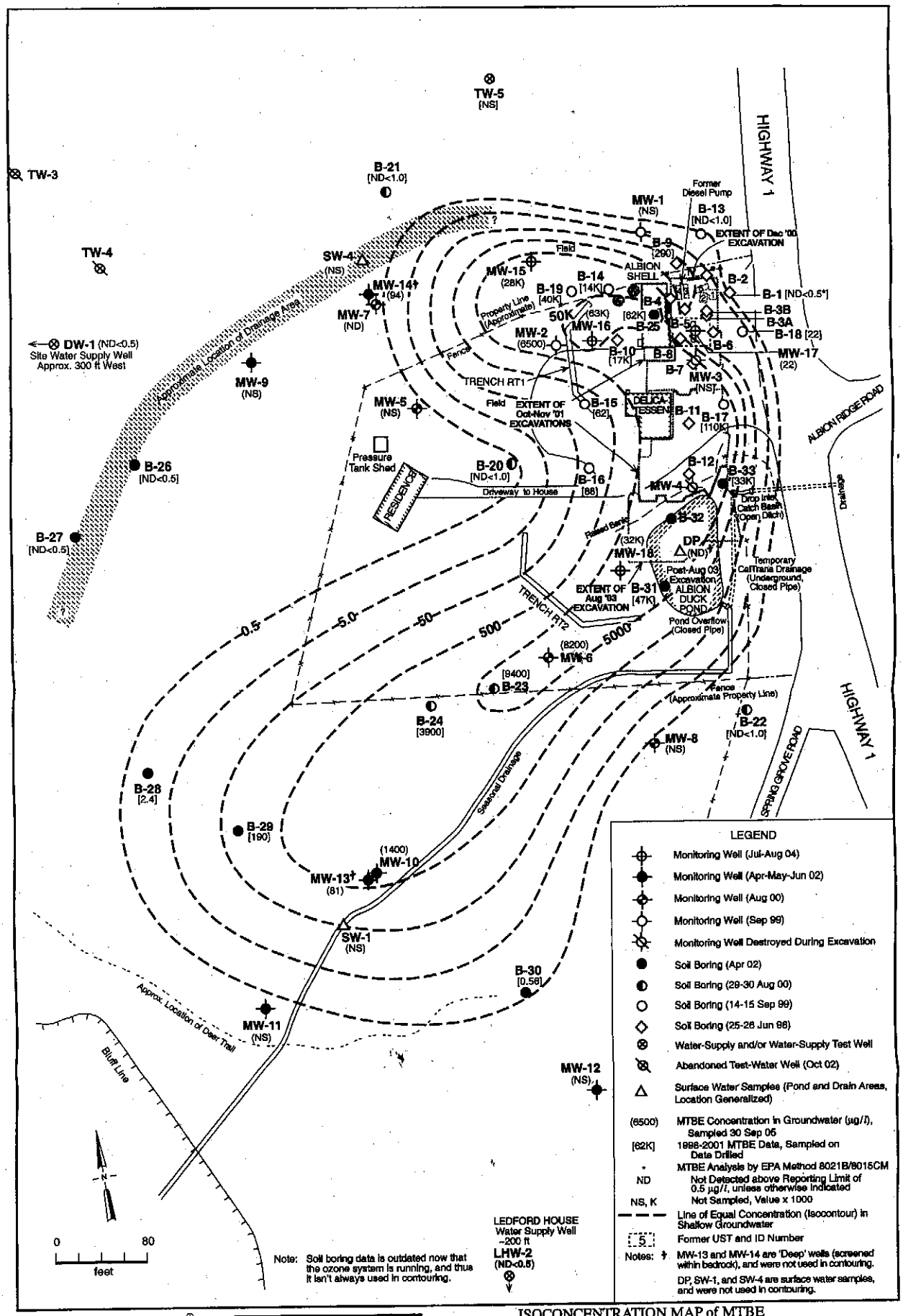
(TRACE #340/RG/29Nov05)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

ISOCONCENTRATION MAP of BENZENE in GROUNDWATER, 30 September 2005
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 6

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0302,001.97	EC&A, Richard Ely	February 2002	November 2005	1 of 1



EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

ISOCONCENTRATION MAP of MTBE
in GROUNDWATER, 30 September 2005

Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE
7

JOB NUMBER	0302,001.97	REVIEWED BY	EC&A, Richard Ely	DATE	February 2002	REVISED DATE	November 2005	SHEET NO.	1 of 1

(TRACE #340/RG/T18/x/06)

FIGURE 7
SHEET NO. 1 of 1

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
10/11/99	MW-1	4'-10'	159.35	11.30	148.05
	MW-2	5'-15'	149.89	9.89	140.00
	MW-3	4'-14'	156.10	7.09	149.01
	MW-4	4'-14'	149.16	7.00	142.16
Gradient = S77°W, 0.08 ft/ft					
01/27/00	MW-1	4'-10'	159.35	7.95	151.40
	MW-2	5'-15'	149.89	6.04	143.85
	MW-3	4'-14'	156.10	3.10	153.00
	MW-4	4'-14'	149.16	3.78	145.38
Gradient = S75°W, 0.09 ft/ft					
05/25/00	MW-1	4'-10'	159.35	3.44	155.91
	MW-2	5'-15'	149.89	6.65	143.24
	MW-3	4'-14'	156.10	3.93	152.17
	MW-4	4'-14'	149.16	4.80	144.36
Gradient = S57°W, 0.10 ft/ft					
09/13/00	MW-1	4'-10'	159.35	10.30	149.05
	MW-2	5'-15'	149.89	8.74	141.15
	MW-3	4'-14'	156.10	6.46	149.64
	MW-4	4'-14'	149.16	6.60	142.56
	MW-5	5'-15'	146.09	8.03	138.06
	MW-6	5'-15'	142.19	11.32	130.87
	MW-7	5'-15'	139.59	8.58	131.01
	MW-8	5'-15'	145.69	17.21	128.48
Gradient = S71°W, 0.068 ft/ft					
12/06-07/00	MW-1	4'-10'	159.35	9.71	149.64
	MW-2	5'-15'	149.89	9.12	140.77
	MW-3	4'-14'	156.10	5.79	150.31
	MW-4	4'-14'	149.16	4.88	144.28

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
12/06-07/00 continued	MW-5	5'-15'	146.09	9.28	136.81
	MW-6	5'-15'	142.19	9.35	132.84
	MW-7	5'-15'	139.59	7.51	132.08
	MW-8	5'-15'	145.69	17.59	128.10
Gradient = S76°W, 0.061 ft/ft					
04/16/01	MW-1	4'-10'	159.35	6.25	153.10
	MW-2	5'-15'	149.89	5.53	144.36
	MW-3 *	---	---	---	---
	MW-4	4'-14'	149.16	5.10	144.06
	MW-5	5'-15'	146.09	10.17	135.92
	MW-6	5'-15'	142.19	7.84	134.35
	MW-7	5'-15'	139.59	5.06	134.53
	MW-8	5'-15'	145.69	11.84	133.85
Gradient = S57°W, 0.063 ft/ft					
07/17/01	MW-1	4'-10'	159.35	9.22	150.13
	MW-2	5'-15'	149.89	9.04	140.85
	MW-3 *	---	---	---	---
	MW-4	4'-14'	149.16	5.56	143.60
	MW-5	5'-15'	146.09	9.81	136.28
	MW-6	5'-15'	142.19	10.06	132.13
	MW-7	5'-15'	139.59	7.58	132.01
	MW-8	5'-15'	145.69	15.42	130.27
Gradient = S66°W, 0.052 ft/ft					
10/30/01	MW-1	4'-10'	159.35	12.81	146.54
	MW-2	5'-15'	149.89	10.76	139.13
	MW-4 **	---	---	6.60*	142.56*
	MW-5	5'-15'	146.09	10.43	135.66
	MW-6	5'-15'	142.19	11.88	130.31

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
10/30/01 continued	MW-7	5'-15'	139.59	10.07	129.52
	MW-8	5'-15'	145.69	Dry	(<128)
Gradient = S69°W, 0.070 ft/ft					
01/30/02	MW-1	4'-10'	159.35	4.39	154.96
	MW-2	5'-15'	149.89	3.78	146.11
	MW-5	5'-15'	146.09	6.32	139.77
	MW-6	5'-15'	142.19	6.21	135.98
	MW-7	5'-15'	139.59	4.23	135.36
	MW-8	5'-15'	145.69	10.96	134.73
Gradient = S47°W, 0.09 ft/ft					
05/23/02	MW-1	4'-10'	161.80	6.53	155.27
	MW-2	5'-15'	152.34	6.88	145.46
	MW-5	5'-15'	148.54	10.25	138.29
	MW-6	5'-15'	144.64	8.25	136.39
	MW-7	5'-15'	142.10	6.04	136.06
	MW-8	5'-15'	148.14	13.65	134.49
	MW-9	5'-20'	136.42	6.71	129.71
	MW-10	5'-15'	127.13	5.98	121.15
	MW-11	4'-9'	115.71	6.36	109.35
	MW-12	5'-20'	136.36	9.19	127.17
	MW-13	19'-24'	126.71	5.64	121.07
Gradient = S66°W, 0.07 ft/ft					
06/14/02	MW-7	5'-15'	142.10	7.19	134.91
	MW-14	30'-34.5'	141.67	12.56	129.11
08/27/02	MW-1	4'-10'	161.80	10.81	150.99
	MW-2	5'-15'	152.34	9.91	142.43
	MW-5	5'-15'	148.54	9.57	138.97
	MW-6	5'-15'	144.64	10.98	133.66
	MW-7	5'-15'	142.10	9.75	132.35

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
08/27/02 continued	MW-8	5'-15'	148.14	16.64	131.50
	MW-9	5'-20'	136.42	9.39	127.03
	MW-10	5'-15'	127.13	8.53	118.60
	MW-11	4'-9'	115.71	9.48	106.23
	MW-12	5'-20'	136.36	13.26	123.10
	MW-13	19'-24'	126.71	8.15	118.56
	MW-14	30'-34.5'	141.67	13.13	128.54
Gradient = S75°W, 0.06 ft/ft					
11/27/02	MW-1	4'-10'	161.80	13.29	148.51
	MW-2	5'-15'	152.34	10.15	142.19
	MW-5	5'-15'	148.54	12.63	135.91
	MW-6	5'-15'	144.64	8.89	135.75
	MW-7	5'-15'	142.10	10.33	131.77
	MW-8	5'-15'	148.14	17.70	130.44
	MW-9	5'-20'	136.42	10.96	125.46
	MW-10	5'-15'	127.13	7.82	119.31
	MW-11	4'-9'	115.71	9.62	106.09
	MW-12	5'-20'	136.36	14.67	121.69
	MW-13	19'-24'	126.71	7.46	119.25
	MW-14	30'-34.5'	141.67	13.98	127.69
Gradient = S72°W, 0.05 ft/ft					
02/11/03	MW-1	4'-10'	161.80	5.11	156.69
	MW-2	5'-15'	152.34	3.85	148.49
	MW-5	5'-15'	148.54	10.36	138.18
	MW-6	5'-15'	144.64	6.17	138.47
	MW-7	5'-15'	142.10	4.47	137.63
	MW-8	5'-15'	148.14	11.45	136.69
	MW-9	5'-20'	136.42	4.61	131.81
	MW-10	5'-15'	127.13	5.30	121.83

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
02/11/03 continued	MW-11	4'-9'	115.71	5.37	110.34
	MW-12	5'-20'	136.36	6.75	129.61
	MW-13	19'-24'	126.71	4.95	121.76
	MW-14	30'-34.5'	141.67	8.71	132.96
Gradient = S74°W, 0.071 ft/ft					
05/28/03	MW-1	4'-10'	161.80	5.41	156.39
	MW-2	5'-15'	152.34	4.83	147.51
	MW-5	5'-15'	148.54	10.60	137.94
	MW-6	5'-15'	144.64	7.43	137.21
	MW-7	5'-15'	142.10	5.07	137.03
	MW-8	5'-15'	148.14	12.27	135.87
	MW-9	5'-20'	136.42	4.71	131.71
	MW-10	5'-15'	127.13	5.73	121.40
	MW-11	4'-9'	115.71	6.11	109.60
	MW-12	5'-20'	136.36	7.44	128.92
	MW-13	19'-24'	126.71	5.38	121.33
	MW-14	30'-34.5'	141.67	8.84	132.83
Gradient = S78°W, 0.075 ft/ft					
08/26/03	MW-1	4'-10'	161.80	8.56	153.24
	MW-2	5'-15'	152.34	8.22	144.12
	MW-5	5'-15'	148.54	10.54	138.00
	MW-6	5'-15'	144.64	10.91	133.73
	MW-7	5'-15'	142.10	8.26	133.84
	MW-8	5'-15'	148.14	16.07	132.07
	MW-9	5'-20'	136.42	7.83	128.59
	MW-10	5'-15'	127.13	8.18	118.95
	MW-11	4'-9'	115.71	9.08	106.63
	MW-12	5'-20'	136.36	12.43	123.93

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
08/26/03 continued	MW-13	19'-24'	126.71	7.81	118.90
	MW-14	30'-34.5'	141.67	11.64	130.03
Gradient = S65°W, 0.068 ft/ft					
11/25/03	MW-1	4'-10'	161.80	12.13	149.67
	MW-2	5'-15'	152.34	9.71	142.63
	MW-5	5'-15'	148.54	9.19	139.35
	MW-6	5'-15'	144.64	11.65	132.99
	MW-7	5'-15'	142.10	9.51	132.59
	MW-8	5'-15'	148.14	17.60	130.54
	MW-9	5'-20'	136.42	9.98	126.44
	MW-10	5'-15'	127.13	9.95	117.18
	MW-11	4'-9'	115.71	11.09	104.62
	MW-12	5'-20'	136.36	15.02	121.34
	MW-13	19'-24'	126.71	9.56	117.15
	MW-14	30'-34.5'	141.67	12.85	128.82
Gradient = S68°W, 0.054 ft/ft					
02/26/04	MW-1	4'-10'	161.80	3.32	158.48
	MW-2	5'-15'	152.34	1.71	150.63
	MW-5	5'-15'	148.54	4.87	143.67
	MW-6	5'-15'	144.64	5.01	139.63
	MW-7	5'-15'	142.10	3.85	138.25
	MW-8	5'-15'	148.14	5.70	142.44
	MW-9	5'-20'	136.42	2.78	133.64
	MW-10	5'-15'	127.13	4.93	122.20
	MW-11	4'-9'	115.71	4.68	111.03
	MW-12	5'-20'	136.36	5.40	130.96
	MW-13	19'-24'	126.71	4.36	122.35
	MW-14	30'-34.5'	141.67	7.00	134.67
Gradient = S68°W, 0.072 ft/ft					

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
05/27/04	MW-1	4'-10'	161.80	6.81	154.99
	MW-2	5'-15'	152.34	6.81	145.53
	MW-5	5'-15'	148.54	11.19	137.35
	MW-6	5'-15'	144.64	9.62	135.02
	MW-7	5'-15'	142.10	6.82	135.28
	MW-8	5'-15'	148.14	NM	--
	MW-9	5'-20'	136.42	5.91	130.51
	MW-10	5'-15'	127.13	6.80	120.33
	MW-11	4'-9'	115.71	6.85	108.86
	MW-12	5'-20'	136.36	9.68	126.68
	MW-13	19'-24'	126.71	5.52	121.19
	MW-14	30'-34.5'	141.67	10.09	131.58
Gradient = S70°W, 0.067 ft/ft					
08/26-27/04	MW-1	4'-10'	161.80	10.91	150.89
	MW-2	5'-15'	152.34	9.43	142.91
	MW-5	5'-15'	148.54	12.92	135.62
	MW-6	5'-15'	144.64	12.17	132.47
	MW-7	5'-15'	142.10	9.96	132.14
	MW-8	5'-15'	148.14	17.28	130.86
	MW-9	5'-20'	136.42	9.66	126.76
	MW-10	5'-15'	127.13	9.16	117.97
	MW-11	4'-9'	115.71	10.24	105.47
	MW-12	5'-20'	136.36	13.96	122.4
	MW-13	19'-24'	126.71	8.81	117.9
	MW-14	30'-34.5'	141.67	12.51	129.16
	MW-15	5'-13'	148.10	7.41	140.69
	MW-16	5'-15'	153.52	7.47	146.05
	MW-17	5'-13'	157.51	5.94	151.57
	MW-18	5'16'	146.64	5.99	140.65
Gradient = S64°W, 0.053 ft/ft					

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
12/16/04-12/17/04	MW-1	4'-10'	161.80	NM	---
	MW-2	5'-15'	152.34	7.70	144.64
	MW-5	5'-15'	148.54	NM	---
	MW-6	5'-15'	144.64	7.08	137.56
	MW-7	5'-15'	142.10	NM	---
	MW-8	5'-15'	148.14	NM	---
	MW-9	5'-20'	136.42	9.25	127.17
	MW-10	5'-15'	127.13	NM	---
	MW-11	4'-9'	115.71	6.68	109.03
	MW-12	5'-20'	136.36	11.20	125.16
	MW-13	19'-24'	126.71	NM	---
	MW-14	30'-34.5'	141.67	NM	---
	MW-15	5'-13'	148.10	8.40	139.70
	MW-16	5'-15'	153.52	4.74	148.78
	MW-17	5'-13'	157.51	5.96	151.55
	MW-18	5'16'	146.64	3.22	143.42
Gradient = S55°W, 0.062 ft/ft					
03/30/05	MW-1	4'-10'	161.80	3.27	158.53
	MW-2	5'-15'	152.34	1.04	151.30
	MW-5	5'-15'	148.54	4.72	143.82
	MW-6	5'-15'	144.64	6.18	138.46
	MW-7	5'-15'	142.10	3.99	138.11
	MW-8	5'-15'	148.14	7.86	140.28
	MW-9	5'-20'	136.42	4.29	132.13
	MW-10	5'-15'	127.13	5.22	121.91
	MW-11	4'-9'	115.71	4.56	111.15
	MW-12	5'-20'	136.36	7.81	128.55
	MW-13	19'-24'	126.71	4.70	122.01
	MW-14	30'-34.5'	141.67	7.41	134.26
	MW-15	5'-13'	148.10	4.70	143.40

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
03/30/05 continued	MW-16	5'-15'	153.52	1.50	152.02
	MW-17	5'-13'	157.51	2.01	155.50
	MW-18	5'16'	146.64	2.55	144.09
Gradient = S47°W, 0.068 ft/ft					
06/22/05	MW-1	4'-10'	161.80	5.91	155.89
	MW-2	5'-15'	152.34	2.47	149.87
	MW-5	5'-15'	148.54	10.15	138.39
	MW-6	5'-15'	144.64	7.19	137.45
	MW-7	5'-15'	142.10	4.91	137.19
	MW-8	5'-15'	148.14	11.64	136.50
	MW-9	5'-20'	136.42	5.07	131.35
	MW-10	5'-15'	127.13	5.99	121.14
	MW-11	4'-9'	115.71	5.34	110.37
	MW-12	5'-20'	136.36	6.85	129.51
	MW-13	19'-24'	126.71	5.64	121.07
	MW-14	30'-34.5'	141.67	7.64	134.03
	MW-15	5'-13'	148.10	2.85	145.25
	MW-16	5'-15'	153.52	1.82	151.70
	MW-17	5'-13'	157.51	3.06	154.45
	MW-18	5'16'	146.64	3.35	143.29
Gradient = S56°W, 0.07 ft/ft					
09/30/05	**MW-1**	**4'-10'**	**161.80**	**9.27**	**152.53**
	MW-2	**5'-15'**	**152.34**	**6.70**	**145.64**
	MW-5	**5'-15'**	**148.54**	**12.73**	**135.81**
	MW-6	**5'-15'**	**144.64**	**9.86**	**134.78**
	MW-7	**5'-15'**	**142.10**	**7.47**	**134.63**
	MW-8	**5'-15'**	**148.14**	**15.28**	**132.86**
	MW-9	**5'-20'**	**136.42**	**7.76**	**128.66**
	MW-10	**5'-15'**	**127.13**	**7.50**	**119.63**

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
09/30/05 continued	MW-11	4'-9'	115.71	7.31	108.40
	MW-12	5'-20'	136.36	11.84	124.52
	MW-13	19'-24'	126.71	7.08	119.63
	MW-14	30'-34.5'	141.67	10.80	130.87
	MW-15	5'-13'	148.10	4.31	143.79
	MW-16	5'-15'	153.52	5.80	147.72
	MW-17	5'-13'	157.51	5.30	152.21
	MW-18	5'16'	146.64	4.34	142.30
Gradient = S78°W, 0.073 ft/ft					

The tops of the well casings (TOC) were surveyed to establish horizontal location and elevation relative to mean sea level. Wells MW-1, MW-2, MW-3 and MW-4 were surveyed on October 19, 1999 by Richard Seale, a California-licensed surveyor. Wells MW-5, MW-6, MW-7 and MW-8 well casings were surveyed on September 30, 2000 by Richard Seale.

Wells MW-7, MW-9, MW-10, MW-11, MW-12, MW-13 and MW-14 were surveyed on June 27, 2002 by I. L Welty and Associates of Fort Bragg, CA, a California-licensed surveyor. The elevations are based on U.S. Coast & Geodetic Survey benchmark R 147. The elevation of this benchmark was adjusted from 176.23 ft to 178.68 ft for the 2002 survey. The TOC elevations for the older wells were adjusted to this datum. TOC elevations for MW-1, MW-7, MW-8 and MW-9 through MW-14 are approximately 3 ft above grade. These wells are monument wells.

Wells MW-5 and MW-6 were re-surveyed and, MW-15, MW-16, MW-17 and MW-18 were surveyed on December 9, 2004 by Virgil Chavez Land Surveying. The TOC elevations of MW-15, MW-16, MW-17 and MW-18 are based the California

State Coordinate System, Zone 11 (NAD83). The benchmark elevation used for this survey is 142.97 feet (NAVD88). The new elevations of MW-5 (148.12 ft) and MW-6 (144.18 ft)were 0.42 ft and 0.46 ft lower, respectively, than the previous survey results, apparently because a different datum was used. The surveyed elevations of the TOCs for MW-15 through MW-18 have been adjusted lower by 0.44 ft (the average of the changes in the MW-5 and MW-6 elevations).

TOC: Top of well casing
MSL: Mean sea level
*: MW-3 was destroyed during December 2000 over-excavation.
**: MW-4 was destroyed during October 2001 over-excavation. Water level was measured on October 25, 2001, before destruction.
NM: Not measured

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-1	10/12/99	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0*	NA	NA	ND<1.0
	01/27/00	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	05/25/00	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	09/14/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	12/06/00	ND<50	NA	ND<0.5	1.4	ND<0.5	1.9	ND<1.0	ND<5.0	ND	NA
	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	10/30/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	ND<1.0
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<5.0
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	06/22/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/30/05	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-2	10/12/99	4800 [a]	610 [d]	570	180	17	450	9700*	NA	NA	ND<330
	01/27/00	17,000	2500 [D,b]	2200	250	490	1800	9100	2200	ND	NA
	05/25/00	12,000 [a]	2900 [D]	2400	180	480	930	8900	ND<250	ND	NA
	09/14/00	7600 [a]	NA	1700	63	280	330	12,000	ND<250	ND	NA
	12/07/00	2300 [a]	NA	330	9.6	40	14	25,000	4500	ND	NA
	04/17/01	4400 [a]	NA	1000	19	210	140	13,000	2400	ND	NA
	07/18/01	4400 [a]	NA	920	16	150	56	15,000	ND<1700	ND	NA
	10/30/01	3000 [a]	NA	350	9.2	65	9.3	22,000	ND<5000	ND	ND<1000
	01/30/02	3500 [a]	NA	480	21	120	95	2700	ND<500	ND	NA
	05/22/02	2800 [a]	NA	740	9.2	210	32	4900	ND<1000	ND	ND<100
	08/28/02	3000 [a]	NA	620	9.5	120	5.1	19,000	ND<5000	ND	ND<500
	11/27/02	1500 [a]	NA	ND<200	ND<200	ND<200	ND<200	11,000	ND<2000	ND [(1)]	ND<200
	02/12/03	3400 [a]	NA	970	40	69	260	12,000	ND<2000	ND	ND<200
	05/29/03	2400 [a]	NA	500	17	91	95	11,000	ND<2500	ND	ND<250
	08/26/03	4200 [a]	NA	870	13	140	45	29,000	ND<10K	ND	NA
	02/27/04	3600 [a]	NA	660	36	99	200	12,000	ND<2500	ND	NA
	05/27/04	2700 [a]	NA	580	8.3	86	16	22,000	ND<5000	ND	NA
	08/27/04	2800 [a]	NA	550	49	52	64	17,000	ND<5000	ND	NA
	12/17/04	2500 [a]	NA	880	10	84	19	7800	ND<1700	ND	NA
	03/30/05	9100 [a]	NA	1300	37	360	150	14,000	4400	ND	NA

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-2 continued	06/22/05	990 [a]	NA	220	ND<5.0	6.2	31	6000	1900	ND	NA
	09/30/05	**3700 [a]**	**NA**	**410**	**6.6**	**190**	**14**	**6500**	**1800**	**ND**	**NA**
MW-3 †	10/12/99	36,000 [a]	2000 [d]	18,000	4200	990	3700	450,000*	NA	NA	ND<10K
	01/27/00	130,000	6200 [D,b]	33,000	11,000	2200	10,000	570,000	50,000	ND	NA
	05/25/00	110,000 [a]	4400 [D]	38,000	5100	1900	7400	690,000	ND<125K	ND	NA
	09/14/00	76,000 [a]	NA	28,000	1700	1200	3300	440,000	ND<125K	ND	NA
MW-4 ††	10/12/99	6000	860 [d]	10,000	370	300	350	280,000*	NA	NA	ND<10K
	01/27/00	57,000 [a]	1700 [D,b]	17,000	2900	910	2600	270,000	ND<25K	ND	NA
	05/25/00	54,000 [a]	1900 [D]	20,000	2000	1000	2300	290,000	ND<50K	ND	NA
	09/14/00	28,000 [a]	NA	9500	150	460	510	280,000	ND<25K	ND	NA
	12/07/00	41,000 [a]	NA	14,000	1900	830	1700	320,000	ND<25K	ND	NA
	04/17/01	38,000 [a]	NA	14,000	1200	750	1300	310,000	ND<25K	ND	NA
	07/18/01	40,000 [a]	NA	12,000	370	610	640	260,000	ND<25K	ND	NA
MW-5	09/14/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	12/06/00	ND<50	NA	ND<0.5	1.1	ND<0.5	1.9	ND<1.0	ND<25K	ND	NA
	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	10/30/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	ND<1.0
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.95	ND<5.0	ND	ND<0.5

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-5 continued	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	0.55	ND<5.0 (2)	NA	NA	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	06/22/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/30/05	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
MW-6	09/14/00	19,000 [a]	NA	2400	360	700	2300	17,000	ND<2500	ND	NA
	12/07/00	23,000 [a]	NA	3100	210	890	1800	16,000	ND<2500	ND	NA
	04/17/01	20,000 [a]	NA	2200	320	440	1700	9000	ND<1250	ND	NA
	07/18/01	31,000 [a]	NA	3100	390	900	2500	11,000	ND<330	ND	NA
	10/30/01	25,000 [a]	NA	2200	190	710	1600	11,000	ND<1300	ND	ND<250
	01/30/02	20,000 [a]	NA	1100	460	500	2300	3000	ND<250	ND	NA
	05/22/02	13,000 [a]	NA	1500	310	460	1600	6800	ND<1000	ND	ND<100
	08/28/02	17,000 [a]	NA	2200	240	840	2100	10,000	ND<2500	ND	ND<250
	11/27/02	19,000 [a]	NA	2000	240	630	1500	9800	ND<1000	(1)	ND<100
	02/12/03	17,000 [a]	NA	1000	440	680	3300	3000	ND<1000	ND	ND<100
	05/29/03	14,000 [a]	NA	770	98	410	1400	4500	ND<500	ND	ND<50
	08/26/03	16,000 [a]	NA	1600	84	540	700	6900	ND<1200	ND	NA

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-6 continued	02/27/04	11,000 [a]	NA	930	130	360	1600	3800	ND<500	ND	NA
	05/27/04	4000 [a]	NA	500	21	69	160	1800	ND<500	ND	NA
	08/27/04	13,000 [a]	NA	1100	65	370	490	3900	ND<1000	ND	NA
	12/17/04	17,000 [a]	NA	1300	85	560	1400	6100	ND<1000	ND	NA
	03/30/05	9500 [a]	NA	280	34	77	460	1600	590	ND	NA
	06/22/05	11,000 [a]	NA	740	100	150	480	4900	ND<1000	ND	NA
	09/30/05	**13,000 [a]**	**NA**	**920**	**61**	**350**	**690**	**8200**	**ND<1000**	**ND**	**NA**
MW-7	09/14/00	ND<50	NA	0.53	1.0	ND<0.5	1.4	1700	ND<250	ND	NA
	12/06/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2400	ND<250	ND	NA
	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	180	ND<25	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	910	ND<130	ND	NA
	10/30/01	52 [f]	NA	ND<0.5	ND<0.5	ND<0.5	0.64	1800	ND<130	ND	ND<25
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	430	ND<50	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	370	ND<50	ND	ND<5.0
	06/14/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	630	ND<100	ND	NA
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	430	ND<50	ND	ND<5.0
	11/27/02	ND<50	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	140	ND<50	ND [1]	ND<5.0
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	160	ND<50	ND	ND<5.0
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<5.0	ND	NA

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd, µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-7 continued	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.61	ND<5.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.2	ND<5.0	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	06/22/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/30/05	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<5.0**	**ND**	**NA**
MW-8	09/14/00	ND<50	NA	0.67	2.1	ND<0.5	1.9	1.3	ND<5.0	ND	NA
	12/06/00 *	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	10/30/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	ND<1.0
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	1.5	ND<5.0 (2)	NA	NA	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	06/22/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/30/05	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-9	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<100	ND	ND<0.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	11/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.53	ND<5.0	ND [1]	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.56	ND<5.0	ND	ND<0.5
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	05/27/04	ND<50	NA	ND<0.5	ND<0.5	0.63	1.6	ND<0.5	ND<5.0	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	12/17/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	09/30/05	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
MW-10	05/22/02	ND<50	NA	1.3	ND<0.5	ND<0.5	ND<0.5	900	ND<100	ND	ND<10
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	870	ND<120	ND	ND<12
	11/27/02	ND<50	NA	ND<10	ND<10	ND<10	ND<10	620	ND<100	ND [1]	ND<10
	02/12/03	61 [a]	NA	26	ND<0.5	ND<0.5	ND<0.5	1100	ND<170	ND	ND<17
	05/29/03	ND<50	NA	2.7	ND<0.5	ND<0.5	ND<0.5	1300	ND<330	ND	ND<33
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	950	ND<170	ND	NA

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-10 continued	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	410	ND<100	ND	NA
	02/27/04	230 [a]	NA	93	0.81	ND<0.5	ND<0.5	890	ND<100	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	450	ND<100	ND	NA
	03/30/05	210 [a]	NA	39	0.67	ND<0.5	ND<0.5	810	320	ND	NA
	06/22/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/30/05	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**1400**	**ND<500**	**ND**	**NA**
MW-11	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	10/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND [1]	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	05/27/04	ND<50	NA	1.1	ND<0.5	1.2	3.5	ND<0.5	ND<5.0	ND	NA
	08/26/04	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	12/17/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	09/30/05	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-12	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	11/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND (1)	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	05/27/04	ND<50	NA	0.57	ND<0.5	0.63	1.5	ND<0.5	ND<5.0	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	12/17/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	09/30/05	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
MW-13**	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	140	40	ND	ND<2.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	93	37	ND	ND<2.5
	11/27/02	ND<50	NA	ND<1.0	ND<1.0	ND<1.0	ND<1.0	71	20	(1)	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	87	23	ND	ND<2.0
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	94	ND<25	ND	ND<2.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	64	32	ND	NA

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-13** continued	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	57	23	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	90	26	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35	16	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	77	29	ND	NA
	06/22/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/30/05	**ND<50**	**NA**	**ND<0.5**	**0.50**	**ND<0.5**	**1.0**	**81**	**31**	**ND**	**NA**
MW-14**	06/14/02	63 [f]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	ND<25	ND	NA
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	320	ND<100	ND	ND<10
	10/27/02	ND<50	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	150	ND<50	(1)	ND<5.0
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	260	ND<50	ND	ND<5.0
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	460	ND<100	ND	ND<10
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	460	ND<120	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	310	ND<100	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	350	ND<100	ND	NA
	08/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	210	ND<50	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	130	ND<25	ND	NA
	06/22/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/30/05	**ND<50**	**NA**	**ND<0.5**	**0.56**	**ND<0.5**	**1.1**	**94**	**ND<17**	**ND**	**NA**
MW-15	08/27/04	15,000 [a,i]	NA	3700	1300	140	810	10,000	ND<2000	ND	NA
	12/17/04	18,000 [a]	NA	4500	1400	240	1000	13,000	2200	ND	NA
	03/30/05	78,000 [a]	NA	15,000	10,000	1500	6300	20,000	9100	ND	NA

Table 2. Monitoring Well Groundwater Sample Analytical Results: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-15 continued	06/22/05	79,000 [a]	NA	14,000	10,000	1400	5600	22,000	ND<5000	ND	NA
	09/30/05	**91,000 [a]**	**NA**	**17,000**	**11,000**	**1500**	**6700**	**28,000**	**ND<5000**	**ND**	**NA**
MW-16	08/27/04	13,000 [a]	NA	2700	950	62	1100	28,000	ND<5000	ND	NA
	12/17/04	32,000 [a]	NA	6400	2200	690	3300	48,000	ND<10,000	ND	NA
	03/30/05	67,000 [a]	NA	8600	640	750	2600	45,000	16,000	ND	NA
	06/22/05	62,000 [a]	NA	12,000	5100	1300	6200	45,000	ND<10,000	ND	NA
	09/30/05	**45,000 [a]**	**NA**	**9600**	**2800**	**930**	**4200**	**63,000**	**ND<10,000**	**ND**	**NA**
MW-17	08/27/04	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	250	ND<50	ND	NA
	12/17/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1200	ND<170	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	23	7.5	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	20	ND<5.0	57 [(3)]	NA
	09/30/05	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**22**	**ND<5.0**	**ND**	**NA**
MW-18	08/27/04	28,000 [a]	NA	4500	760	690	1500	21,000	ND<5000	ND	NA
	12/17/04	27,000 [a]	NA	5200	1100	1100	2200	29,000	ND<10,000	ND	NA
	03/30/05	19,000 [a]	NA	3600	620	550	820	25,000	6500	ND	NA
	06/22/05	14,000 [a]	NA	2100	460	480	880	19,000	ND<5000	ND	NA
	09/30/05	**9900 [a]**	**NA**	**2000**	**220**	**430**	**440**	**32,000**	**ND<5000**	**ND**	**NA**

Notes

TPHg:	Total petroleum hydrocarbons as gasoline
TPHd:	Total petroleum hydrocarbons as diesel
MTBE:	Methyl tert-butyl ether; analyzed by Analytical Method SW8260B unless noted otherwise
*:	MTBE by EPA method 8020
**:	Deep monitoring wells. MW-13 is next to shallow well MW-10; MW-14 is next to shallow well MW-7
µg/l:	Micrograms per liter
ND:	Not detected above the reporting limit
NA:	Not analyzed
K:	Value x1000
†:	MW-3 was destroyed during December 2000 over-excavation
††:	MW-4 was destroyed during October 2001 over-excavation
a:	Unmodified or weakly modified gasoline is significant
b:	Diesel range compounds are significant; no recognizable pattern
d:	Gasoline range compounds are significant; no recognizable pattern
D:	Gasoline range compounds are significant
f:	One to a few isolated non-target peaks present
i:	Liquid sample that contains greater than ~1 vol. % sediment
x:	Well was dry on this date
(1):	Samples were also analyzed for volatile organics, full spectrum scan, by Analytical Method SW8260B. In addition to the results reported above, the following analytes were detected: MW-6: 130 µg/l naphthalene; 780 µg/l 1,2,4-trimethylbenzene; and 220 µg/l 1,3,5-trimethylbenzene. MW-13: 1.0 µg/l carbon disulfide. MW-14: 180 µg/l 2-butanone (MEK)
(2):	Sample analyzed for MTBE by Analytical Method SW8021B/8015Cm
(3):	Ethanol

Table 3. Water-Supply Wells, Test Wells and Surface Water Sample Analytical Results
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg, µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
DW-1 (Domestic Water Well)	09/07/99	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	NA	NA
	01/27/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	09/13/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	12/07/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
	11/25/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/16/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA

Table 3. Water-Supply Wells, Test Wells and Surface Water Sample Analytical Results
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
DW-1 continued	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	09/30/05	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND**	**NA**
LHW-1 (Water-supply Well)	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	12/07/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
LHW-2 (Water-supply Well)	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	09/30/05	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND**	**NA**
LHW-1/LHW-2 (Ledford House Water-supply Wells	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
	11/25/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA

Table 3. Water-Supply Wells, Test Wells and Surface Water Sample Analytical Results
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
LHW-1/LHW-2 (Ledford House Water-supply Wells) continued	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/16/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
LHW-3 (Water-supply Well)	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
LHP-1 LHP (Ledford House Pond)	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
WP-1	09/07/99	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5 *	NA	NA
WP-2	01/27/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-3	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-4	09/13/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-5	12/07/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-6	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-7	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-8	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
WP-9	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5

Table 3. Water-Supply Wells, Test Wells and Surface Water Sample Analytical Results
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
WP	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
WP	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
WP	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
WP	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
DP-1	09/07/99 [1]	56 [f]	100 [b]	570	180	17	450	14	ND	ND<1.0
DP-2	01/27/00 [2]	140 [a]	ND<50	24	19	1.9	11	270	ND	ND<10
DP-3	05/25/00 [2]	ND<50	ND<5.0	4.7	3.2	ND<0.5	3.3	420	ND	NA
DP-4	09/13/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	ND	NA
DP-5	12/07/00	ND<50	NA	0.62	ND<0.5	ND<0.5	ND<0.5	230	ND	NA
DP-6	04/16/01	ND<50	NA	0.69	ND<0.5	ND<0.5	ND<0.5	160	ND	NA
DP-7	07/17/01	ND<50	NA	0.68	ND<0.5	ND<0.5	ND<0.5	52	ND	NA
DP-8	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	ND	ND<0.5
DP-9	01/29/02	120 [a]	NA	22	20	2.5	14	170	ND	NA
DP	05/22/02	ND<50	NA	1.8	0.55	ND<0.5	0.79	97	ND	ND<1.7
DP	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	100	ND	ND<2.5
DP	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35	ND	ND<0.5
DP	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	63	ND	ND<1.0
DP	05/29/03 [5]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	ND	ND<10
DP	11/25/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
DP	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
DP	05/27/04	ND<0.5	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA

Table 3. Water-Supply Wells, Test Wells and Surface Water Sample Analytical Results
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
DP	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
DP	12/16/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
DP	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
DP	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
DP	**09/30/05**	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND**	**NA**
DPI-1 (Duck Pond Influent)	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.1	ND	NA
	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
DPE-1 (Duck Pond Effluent)	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120	ND	NA
SD-1 (Storm Drain Ditch)	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
TW-3 (Smith Property Test Well Destroyed 10/02)	10/31/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
TW-4 (Smith Property Test Well Destroyed 10/02)	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5

Table 3. Water-Supply Wells, Test Wells and Surface Water Sample Analytical Results
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
TW-5 (Smith Property Test Well)	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
SW-1 (Duck Pond Drainage)	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.2	ND	NA
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	62	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	ND	ND<0.5
	08/27/02	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.5	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	ND	ND<0.5
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	ND	ND
	05/27/04	ND<50 [1]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/16/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.6	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.5	ND	NA
SW-2 (Duck Pond Drainage)	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	42	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.4	ND	ND<0.5
	08/27/02 [3]	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3. Water-Supply Wells, Test Wells and Surface Water Sample Analytical Results
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
SW-2 (Duck Pond Drainage) continued	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.9	ND	ND<0.5
SW-3 (Northwest Drainage)	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02 [3]	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
SW-4 (Northwest Drainage)	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
	11/25/03	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/27/04	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	06/22/05	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
PE-1 (Duck Pond Drain Pipe)	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA

Table 3. Water-Supply Wells, Test Wells and Surface Water Sample Analytical Results
Former Albion Shell, 3300 N. Highway 1, Albion, California

Notes

TPHg:	Total petroleum hydrocarbons as gasoline
TPHd:	Total petroleum hydrocarbons as diesel
MTBE:	Methyl tert-butyl ether; analyzed by Analytical Method SW8260B unless noted otherwise
µg/l:	Micrograms per liter
ND:	Not detected above the reporting limit
NA:	Not analyzed
NS:	Not sampled
a:	Unmodified or weakly modified gasoline is significant
b:	Diesel range compounds are significant; no recognizable pattern
f	One to a few isolated peaks present, identified as hexanal and pentanal (not gasoline)
i:	Liquid sample that contains greater than ~2 vol. % sediment
j:	No recognizable pattern
*:	MTBE by EPA Method 8021B/8015Cm
1:	Sample DP-1 also analyzed for volatile organics, full spectrum scan, by Analytical Method SW8260B; results were 6.7 µg/l carbon disulfide, as well as non-target peaks identified as hexanal and pentanal
2:	Samples DP-2 and DP-3 were also analyzed for volatile organics, full spectrum scan, by Analytical Method SW8260B. Except for MTBE, benzene, toluene and xylene results reported above, results were ND.
3:	Surface water was not present and samples were not collected from the duck pond or northwest drainage areas on August 27, 2002.
4:	Samples were also analyzed for volatile organics, full spectrum scan, by Analytical Method SW8260B. In addition to results reported above, 0.61 µg/l bromoform and 0.93 µg/l dibromochloromethane were detected in samples from LHW-1/LHW-2.
5:	Sample DP also analyzed for total organic carbon (TOC) by Method 5310C. Result was 6.53 milligrams per liter (mg/l); reporting limit was 1.00 mg/l.

Table 4. Monitoring Well Groundwater Sample Analytical Results: Inorganic Anions and Dissolved Metals
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	Bromate mg/l	Bromide mg/l	Hexachrome µg/l	Molybdenum µg/l	Selenium µg/l	Vanadium µg/l
MW-2	08/27/04	ND<0.040	1.0	ND<0.2	0.67	ND<0.5	0.95
	12/17/04	ND<0.1	0.80	ND<0.2	0.57	ND<0.5	ND<0.5
	03/30/05	ND<0.005	0.91	ND<0.2	0.59	ND<0.5	0.86
	06/22/05	0.024	0.74	ND<0.2	ND<0.5	ND<0.5	0.63
	09/30/05	**ND<0.005**	**1.3**	**ND<0.2**	**0.89**	**ND<0.5**	**ND<0.5**
MW-6	08/27/04	ND<0.040	1.3	ND<0.2	ND<0.5	ND<0.5	ND<0.5
	12/17/04	ND<0.1	1.4	ND<0.2	ND<0.5	ND<0.5	ND<0.5
	03/30/05	ND<0.005	0.59	ND<0.2	ND<0.5	ND<0.5	ND<0.5
	06/22/05	ND<0.005	0.97	ND<0.2	ND<0.5	ND<0.5	ND<0.5
	09/30/05	**ND<0.005**	**0.88**	**ND<0.2**	**ND<0.5**	**ND<0.5**	**ND<0.5**
MW-15	08/27/04	ND<0.040	2.2	ND<0.2	7.1	0.73	1.4
	12/17/04	ND<0.1	1.4	ND<0.2	3.8	ND<0.5	0.70
	03/30/05	ND<0.005	1.6	ND<0.2	0.83	0.85	0.72
	06/22/05	0.054	1.6	ND<0.2	0.54	0.89	ND<0.5
	09/30/05	**ND<0.005**	**1.5**	**ND<0.2**	**0.68**	**0.82**	**ND<0.5**
MW-16	08/27/04	ND<0.040	2.0	ND<0.2	15	1.0	6.5
	12/17/04	ND<0.1	1.2	ND<0.2	6.1	1.2	1.5
	03/30/05	ND<0.005	0.92	ND<0.2	3.6	1.5	ND<0.5
	06/22/05	0.056	0.77	ND<0.2	1.5	1.6	ND<0.5
	09/30/05	**ND<0.005**	**0.73**	**ND<0.2**	**1.9**	**0.78**	**ND<0.5**
MW-17	08/27/04	ND<0.040	0.24	ND<0.2	1.4	ND<0.5	0.87
	12/17/04	ND<0.1	0.26	ND<0.2	1.4	0.69	0.62
	03/30/05	ND<0.005	0.21	0.62	2.1	0.86	0.85
	06/22/05	ND<0.005	0.14	0.46	2.3	0.77	1.0
	09/30/05	**ND<0.005**	**0.13**	**ND<0.2**	**1.9**	**ND<0.5**	**0.68**
MW-18	08/27/04	ND<0.040	1.3	ND<0.2	0.68	0.53	ND<0.5
	12/17/04	ND<0.1	1.5	ND<0.2	0.60	0.68	ND<0.5
	03/30/05	ND<0.005	1.4	ND<0.2	ND<0.5	0.56	ND<0.5
	09/30/05	**ND<0.005**	**1.5**	**ND<0.2**	**0.57**	**ND<0.5**	**ND<0.5**

Table 4. Monitoring Well Groundwater Sample Analytical Results: Inorganic Anions and Dissolved Metals
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	Bromate mg/l	Bromide mg/l	Hexachrome µg/l	Molybdenum µg/l	Selenium µg/l	Vanadium µg/l
WQO	--	NE	NE	21	35	35	50

mg/l: Milligrams per liter
µg/l: Micrograms per liter
ND: Not detected above the reporting limit
WQO: Water Quality Objective (Central Valley Regional Water Quality Control Board, August 2003)
NE: Not established

0302\table 4

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH Former Albion Shell, 3300 Highway 1 North, Albion, California

Well ID	Date	DTW (feet)	DO (mg/l)	ORP (mV)	Temperature (°F)	pH
MW-1	08/26/04 *	10.91	0.12	166	56.5	6.91
	03/30/05 *	3.27	0.88	59	54.4	8.42
MW-2 (Downgradient from Trench RT-1)	08/27/04 *	9.43	0.90	152	59.1	7.29
	11/3/04	—	0.65	—	63.3	—
	12/17/04 *	7.70	0.43	150	60.1	7.79
	01/21/05	—	0.17	—	56.1	—
	02/15/05	—	0.18	—	55.8	—
	03/02/05	—	0.30	—	57.4	—
	03/30/05 *	1.04	1.59	121	57.4	6.72
	04/29/05	—	0.19	—	57.2	—
	05/31/05	—	0.14	—	57.5	—
	06/22/05 *	2.47	0.60	130	56.6	6.18
	08/31/05	—	0.14	—	61.7	—
	09/30/05 *	6.70	0.23	—	60.6	6.31
MW-5	08/26/04 *	12.92	0.20	160	61.3	6.50
	03/30/05 *	4.72	0.22	50	56.4	8.78
MW-6 (Downgradient from Trench RT-2)	08/27/04 *	12.17	3.18	120	63.4	6.83
	11/3/04	—	0.50	—	60.3	—
	12/17/04 *	7.08	0.44	120	59.4	6.61
	01/21/05	—	0.17	—	56.7	—
	02/15/05	—	0.17	—	56.3	—
	03/02/05	—	0.19	—	56.1	—
	03/30/05 *	6.18	2.07	38	56.8	7.57
	04/29/05	—	0.18	—	57.2	—
	05/31/05	—	0.13	—	57.5	—
	06/22/05 *	7.19	0.86	51	61.9	7.14
	08/31/05	—	0.14	—	59.9	—
	09/30/05 *	9.86	0.53	—	62.8	5.72

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH
Former Albion Shell, 3300 Highway 1 North, Albion, California

Well ID	Date	DTW (feet)	DO (mg/l)	ORP (mV)	Temperature (°F)	pH
MW-7 (Shallow well paired with MW-14)	08/26/04 *	9.96	4.73	65	57.0	9.41
	03/30/05 *	3.99	2.99	124	53.8	7.05
	09/30/05 *	7.47	4.21	—	58.7	6.09
MW-8	08/26/04 *	17.28	7.00	170	56.6	8.01
	03/30/05 *	7.86	6.80	103	56.8	7.90
MW-9	08/26/04 *	9.66	1.72	145	57.2	7.28
	12/17/04 *	9.25	1.71	140	55.1	7.41
	03/30/05 *	4.29	2.80	83	53.8	7.47
	06/22/05 *	5.07	1.87	183	57.3	5.59
MW-10 (Shallow well paired with MW-13)	08/26/04 *	9.19	0.10	124	57.5	8.27
	03/30/05 *	5.22	0.17	77	54.0	8.21
	09/30/05 *	7.50	0.19	—	58.3	6.66
MW-11	08/26/04 *	10.24	1.09	184	58.2	7.76
	12/17/04 *	6.68	1.30	170	54.6	7.75
	03/30/05 *	4.56	6.87	134	56.1	7.40
	06/22/05 *	5.34	4.17	193	58.2	6.02
MW-12	08/26/04 *	13.96	1.20	178	59.1	7.38
	12/17/04 *	11.20	0.88	179	55.9	7.55
	03/30/05 *	7.81	1.60	135	58.3	7.73
	06/22/05 *	6.85	1.99	207	59.6	6.13
MW-13 (Deep well paired with MW-10)	08/26/04 *	8.81	4.66	76	59.6	10.97
	03/30/05 *	4.70	6.53	30	54.9	11.48
	09/30/05 *	7.08	2.14	—	58.6	12.16
MW-14 (Deep well paired with MW-7)	08/26/04 *	12.51	1.59	8	56.9	11.47
	03/30/05 *	7.41	3.65	35	54.3	11.72
	09/30/05 *	10.80	1.48	—	57.1	7.10

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH
Former Albion Shell, 3300 Highway 1 North, Albion, California

Well ID	Date	DTW (feet)	DO (mg/l)	ORP (mV)	Temperature (°F)	pH
MW-15 (Cross gradient from Trench RT-1)	08/27/04 *	7.41	4.00	166	57.4	7.55
	12/17/04 *	8.40	2.13	165	56.8	7.51
	03/30/05 *	4.70	0.37	90	55.5	6.50
	05/31/05	—	0.15	—	55.5	—
	06/22/05 *	2.85	1.61	33	57.3	6.73
	08/31/05	—	0.15	—	59.8	—
	09/30/05 *	4.31	0.60	—	58.5	6.35
MW-16 (Upgradient from Trench RT-1)	08/27/04 *	7.47	4.59	174	61.3	7.32
	11/3/04	—	0.65	—	60.2	—
	12/17/04 *	4.74	0.19	130	60.6	7.51
	01/21/05	—	0.18	—	56.1	—
	02/15/05	—	0.19	—	55.9	—
	03/02/05	—	0.29	—	56.4	—
	03/30/05 *	1.50	0.22	0	57.1	6.86
	04/29/05	—	0.22	—	57.7	—
	05/31/05	—	0.15	—	57.6	—
	06/22/05 *	1.82	0.30	11	60.1	6.92
	08/31/05	—	0.14	—	60.9	—
	09/30/05 *	5.80	0.24	—	61.0	6.34
MW-17 † (Within UST excavation backfill)	01/21/05	—	0.88	—	57.5	—
	02/15/05	—	0.94	—	58.1	—
	03/02/05	—	3.21	—	56.9	—
	03/30/05 *	2.01	0.99	177	57.9	7.47
	04/29/05	—	0.15	—	59.9	—
	05/31/05	—	1.01	—	60.5	—
	06/22/05 *	3.06	0.43	101	63.5	7.97
	08/31/05	—	1.11	—	61.3	—
	09/30/05 *	5.30	0.10	—	65.2	7.07

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH Former Albion Shell, 3300 Highway 1 North, Albion, California

Well ID	Date	DTW (feet)	DO (mg/l)	ORP (mV)	Temperature (°F)	pH
MW-18 (Upgradient from Trench RT-2)	01/21/04	—	0.15	—	55.9	—
	02/15/05	—	0.17	—	56.9	—
	03/02/05	—	0.23	—	57.4	—
	03/30/05 *	2.55	0.21	28	57.4	6.72
	04/29/05	—	0.18	—	58.4	—
	05/31/05	—	0.29	—	58.9	—
	06/22/05 *	3.35	0.43	-24	61.1	7.00
	08/31/05	—	0.31	—	60.7	—
	09/30/05 *	4.34	0.25	—	64.1	5.92

DTW: Depth to water
DO: Dissolved oxygen
ORP: Oxidation reduction potential
mg/l: Milligrams per liter
mV: Millivolts
°F: Degrees Fahrenheit
*: Combined O&M and quarterly sampling event; where possible, readings taken after last well volume purged
RT-1: North remediation trench
RT-2: South remediation trench
†: MW-17 is located in the pea-gravel backfill of the December 2000 excavation

Table 6. Ozone System Operations and Maintenance Log
Former Albion Shell, 3300 Highway 1 North, Albion, California

Panel	Date	Comments
T-1	08/27/04 *	Pre-ozone microsparging baseline measurements
	11/1-2/04	System startup
	11/3/04	Check system pressures; jumper relay wire installed; remove ozonator hose from bottom of panel
	11/12/04	Panel running; check for panel and sparge point leaks
	11/18/04	Panel running; check pressures
	12/16-17/04 *	System down; ozone sensor tripped; restart system; check meter
	01/21/05	System running; T1SP-4 grout/leak repaired
	02/15/05	Panel down (ozone switch); restart panel; check for leaks
	03/02/05	System bubbling at surface; reduced run times to 53.75% of original run time
	03/30/05 *	Panel running; check for leaks
	04/29/05	Panel running; vacuum and clean out panel, check pressures, tighten all electrical; reprogram run times to full run times
	05/31/05	System down; rebuild compressor; cleanup inlet, check pressures
	06/22/05 *	System running; dismantle compressor and replace piston; check pressures; clean out panel; replace main power switch
	08/31/05	System running; rewire panel for auto start-up (two transformers and relay); clean out intake and compressors
	09/30/05 *	System running; open and clean out compressor and intake. Needs new piston. Pressure check; check all wire connections.
T-2	08/27/04 *	Pre-ozone microsparging baseline measurements
	11/1-2/04	System startup
	11/3/04	Check system pressures; install relay wire; disconnect ozonator intake hose from bottom of panel
	11/12/04	Panel running; check for panel and sparge point leaks
	11/18/04	Panel running; check for panel and sparge point leaks
	12/16-17/04 *	System down and unplugged; check system clock and restart
	01/21/05	Panel running; low system pressures; replace #9 solenoid; clean intake tube; check pressures and for leaks

Table 6. Ozone System Operations and Maintenance Log
Former Albion Shell, 3300 Highway 1 North, Albion, California

Panel	Date	Comments
T-2 continued	02/15/05	System running (reported outage and system restart)
	03/02/05	System bubbling at surface; reduced run times to 52.38% of original run times
	03/30/05 *	System running; check for leaks
	04/29/05	System running; vacuum sediment from cabinet, reprogram timer to run 7 minutes run times on all sparge points
	05/31/05	System running; check system pressures, clean out inlet
	06/22/05 *	System running; dismantle compressor and replace piston; check pressures; clean out panel; replace main power switch; lower fan will need replacing (running slowly)
	08/31/05	System running; rewire panel for auto start-up (two transformers and relay); clean out intake and compressors
	09/30/05 *	System running; reprogram timer; open and clean out compressor and intake. Needs new piston. Pressure check; tighten all wire blocks.
EXC	11/03/04	3rd day system check; check for leaks; jumper wire for relays installed; remove ozonator input hose from bottom of panel
	11/12/04	Panel running; check pressures and for leaks in panel and sparge points
	12/16-17/04 *	System down on 16th; ozone sensor tripped; restart system; check pressures and for leaks;
	01/21 & 01/24/05	System running on 01/21/05; repair ozone leaks and set boxes to final grade; re-grout SP-6; replace bottom fan short
	02/15/05	Panel running (reported outage and system restart); clean station #5 solenoid switch; station #4 line leak between panel and SP; reprogram panel to 0 run time on station #4; order replacement hose
	03/02/05	System bubbling at surface; reduced run times to 52% of original run time; leak in SP-2 into secondary containment - reduce run time to 0 (from 2/15/05)
	03/30/05 *	System running; adjust ozone sensor; check for leaks; burnt wire to be replaced
	04/29/05	System down; rewire panel, reprogram timer to 10 minute run time on all sparge points except #4; leak in delivery line; clean out vacuum panel; solenoid sticking, clean out manifold
	05/31/05	System running; clean inlet tube, check pressures; turn up run times on 7 stations; maximum run times (11 minutes) on all stations except #4 (1 minute)

Table 6. Ozone System Operations and Maintenance Log
Former Albion Shell, 3300 Highway 1 North, Albion, California

Panel	Date	Comments
EXC continued	06/22/05 *	System down; ozone sensor out (reordered); dismantle compressor and replace piston; check pressures; station #4 (SP-2) turned off - all others at 11 minute run times; no ozone nor FHCs detected in ozone meter station and deli building
	08/31/05	System down; burned wires (main power switch at wire block [GFI neutral] and wire block to the right of latch relay [red wire]); replace large block and order small block by latch; splice red wire temporarily; rewire panel for auto start-up (two transformers and relay)
	09/30/05 *	System running; open and clean out compressor and intake. Needs new piston. Pressure check; check all wire blocks. Replace far right wire block, lower fan, and red light bulb in door. Needs intake filter.

Note
*: Combined O&M and quarterly sampling event

Appendix A

Groundwater Field Logs

DAILY FIELD RECORD

Project and Task Number: 0302	Date: 9/30/05
Project Name: Albion Shell	Field Activity: G.W.M
Location: 3300 N. Hwy 1	Weather: Sunny, cool, windy
Time of OVM Calibration:	

Name	Company	Time In	Time Out

DRUM ID	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED		
6:00	Load up for field	ORDER - 7, 13, 14, 17, 10, 2, 6, 18, 16, 15	
7:30	Depart from office		
10:30	arrive on site, locate + open all wells, turn off ozone panel		
11:26	Pre DTW -	MW-1 - 9.27	MW-11 - 7.31
2:30	Begin purging wells in order	MW-2 - 6.70	MW-12 - 11.84
3:00	wells, 7, 13, 14, 17 sampled	MW-5 - 12.73	MW-13 - 7.08
3:15	Remaining wells allowed to recharge	MW-6 - 9.86	MW-14 - 10.80
3:45	Remaining wells sampled	MW-7 - 7.47	MW-15 - 4.31
4:45	close + lock all wells, clean up site.	MW-8 - 15.28	MW-16 - 5.80
—	turn ozone panels back on	MW-9 - 7.76	MW-17 - 5.30
5:30	Return to office	MW-10 - 7.50	MW-18 - 4.34

USED HYDAC, NO ORP READING. THIS EVENT

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-2
Global ID: T0604500291	Well depth from TOC: 15'
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 10:30	Water level from TOC: 6.70
Recorded by: R. Johnson	Screened interval: 5'-20'
Purge time (duration):	Well elevation (TOC): 152.34

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 8.3	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.4	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 3.9	Well volumes removed: 2

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC x1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
3:42	6.45	1.32	60.8	—	.22	1/ 1.4	Low turb
3:43	6.31	.93	60.6	—	.23	2/ 2.8	No sheen
						3/ 4.2	Mild "HC" odor
						/	

Notes: Well dry @ 3.9

Water level after purging below TOC:	80% of original water level below TOC: 9
Water level before sampling below TOC: 6.8	
Appearance of sample:	Time: 4:00

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ Bromide Bromate Vanadium Selenium Molybdenum Hexachlor

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-6
Global ID: T0604500291	Well depth from TOC: 15'
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 10:30	Water level from TOC: 9.86
Recorded by: R. Johnson	Screened interval: 5'-15'
Purge time (duration):	Well elevation (TOC): 144.64

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 5.14	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: .9	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 2.0	Well volumes removed: 2

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC x1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
3:53	5.78	.54	63.6	–	1.65	1/ .9	Low turb
3:54	5.72	.58	62.8	–	.53	2/ 1.8	No sheen
	–	–	–	–	–	3/ 2.7	weak "HC" odor
						/	

Notes: Well dry @ 2.0 gal

Water level after purging below TOC:	80% of original water level below TOC: 4
Water level before sampling below TOC: 10.00	
Appearance of sample:	Time: 4:15

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ Bromide Bromate Vanadium Selenium Molybdenum Hexachrome

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER ☐ SURFACE WATER ☐ DOMESTIC WATER ☐ IRRIGATION WATER ☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-7
Global ID: T0604500291	Well depth from TOC: 15'
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 10:30	Water level from TOC: 7.47
Recorded by: R. Johnson	Screened interval: 5'-15'
Purge time (duration):	Well elevation (TOC): 142.10

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 7.53	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.3	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 3.9	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC x1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
2:38	6.13	1.32	59.8	–	4.12	1/ 1.3	Low turb
2:41	6.34	1.17	59.0	–	4.08	2/ 2.6	No sheen
2:43	6.09	1.21	58.7	–	4.21	3/ 3.9	No odor
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC: 8.36	

Appearance of sample: Time: 3:00

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

le analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
ethod:								

ORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER ☐ SURFACE WATER ☐ DOMESTIC WATER ☐ IRRIGATION WATER ☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-10
Global ID: T0604500291	Well depth from TOC: 18'
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 9:00	Water level from TOC: 7.50
Recorded by: R. Johnson	Screened interval: 5'-15'
Purge time (duration):	Well elevation (TOC): 127.13

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 10.5	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.8	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 5.4	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC x1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
3:30	6.06	.66	59.2	—	.20	1/ 1.8	Low turb
3:31	6.65	.60	58.8	—	.70	2/ 3.6	No sheen
3:32	6.66	.62	58.3	—	.19	3/ 5.4	Weak "sulfur" odor
						/	

Notes:

Water level after purging below TOC: 80% of original water level below TOC: ✓

Water level before sampling below TOC: 7.7

Time: 3:45

Appearance of sample:

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-13
Global ID: T0604500291	Well depth from TOC: 24'
Project location: 3300 N. Hwy 1, Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 10:30	Water level from TOC: 7.08
Recorded by: R. Johnson	Screened interval: 19-24'
Purge time (duration):	Well elevation (TOC): 126.71

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 16.92	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2.8	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 2.8	Well volumes removed: 2

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC X1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
2:53	12.16	.73	58.6	–	2.14	1/ 2.9	Low turb
	–	–	–	–	–	2/ 5.8	No odor
	–	–	–	–	–	3/ 8.7	No sheen
						/	

Notes: Well dry @ 3.8 gal

Water level after purging below TOC:	80% of original water level below TOC: Y
Water level before sampling below TOC: 7.9	
Appearance of sample:	Time: 3:10

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER ☐ SURFACE WATER ☐ DOMESTIC WATER ☐ IRRIGATION WATER ☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-14
Global ID: T0604500291	Well depth from TOC: 34.5
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 10:30	Water level from TOC: 10.80
Recorded by: R. Johnson	Screened interval: 30-34.5'
Purge time (duration):	Well elevation (TOC): 141.67

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 23.7	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 4	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 12	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC x1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
3:00	12.45	.81	57.6	—	1.52	1/ 4	Lev turb
3:03	7.14	.84	57.4	—	3.17	2/ 8	No sheen
3:06	7.18	.78	57.1	—	1.48	3/ 12	No odor
						/	

Notes:

Water level after purging below TOC: 80% of original water level below TOC: 9

Water level before sampling below TOC: 10.8

Appearance of sample: Time: 3:30

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-15
Global ID: T0604500291	Well depth from TOC: 15'
Project location: 3300 N. Hwy 1, Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 9:00	Water level from TOC: 4.31
Recorded by: R. Johnson	Screened interval: 5'-13'
Purge time (duration):	Well elevation (TOC): 148.10

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 10.69	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.8	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 3.8	Well volumes removed: 2

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC x 1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
4:28	6.04	1.49	59.1	-	.55	1/ 1.8	Low turb
4:30	6.75	1.54	58.5	-	.60	2/ 3.6	No sheen
	—	—	-	-	-	3/ 5.4	Weak "HC" odor
						/	

Notes: Well dry @ 3.8 gal

Water level after purging below TOC:	80% of original water level below TOC: Y
Water level before sampling below TOC: 11.5	
Appearance of sample:	Time: 5:00

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ Bromide Bromate Vanadium Selenium Molybdenum Hexavalent

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-16
Global ID: T0604500291	Well depth from TOC: 15'
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 9:00	Water level from TOC: 5.80
Recorded by: R. Johnson	Screened interval: 5'-15'
Purge time (duration):	Well elevation (TOC): 153.52

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 10.2	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.7	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 5.1	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC x1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
4:15	6.17	1.05	62.1	–	.38	1/ 1.7	Low turb
4:16	6.18	.98	61.9		.30	2/ 3.4	No sheen
4:18	6.34	1.09	61.0		.24	3/ 5.1	"HC" odor - strong
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: y
Water level before sampling below TOC: 5.8	
Appearance of sample:	Time: 4:45

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐ Bromide Bromate Vanadium Selenium Molybdenum Hexa Chrom

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER ☐ SURFACE WATER ☐ DOMESTIC WATER ☐ IRRIGATION WATER ☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-17
Global ID: T0604500291	Well depth from TOC: 13'
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 10:30	Water level from TOC: 5.30
Recorded by: R. Johnson	Screened interval: 5'-13'
Purge time (duration):	Well elevation (TOC): 157.51

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 7.7	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.2	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 3.9	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC x1000	Temp °F	ORP mV	DO mg/l .24	Case Volume gal.	Appearance
3:16	6.49	.88	65.2	-	~~1.75~~	1/ 1.3	Low turb
3:18	6.90	.77	65.2	-	.15	2/ 2.6	No sheen
3:20	7.07	.77	65.2	-	.10	3/ 3.9	No odor
						/	

Notes:

Water level after purging below TOC: 80% of original water level below TOC: 4

Water level before sampling below TOC: 5.4 Time: 3:30

Appearance of sample:

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ Bromide Bromate Selenium Vanadium Moly Selenium Hexac

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUND WATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-18
Global ID: T0604500291	Well depth from TOC: 16'
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: ND
Time: 10:30	Water level from TOC: 4.34
Recorded by: R. Johnson	Screened interval: 5-16'
Purge time (duration):	Well elevation (TOC): 146.64

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 11.66	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 6	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC X1000	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
4:01	5.12	1.09	64.2	-	.35	1/ 2	low turb
4:03	6.18	.98	64.2	-	.25	2/ 4	No sheen
4:05	5.92	1.00	64.1	-	.25	3/ 6	Mild "HC" odor
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: y
Water level before sampling below TOC: 4.4	
Appearance of sample:	Time: 4:30

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ Bromide Bromate Vanadium Selenium Molybdenum Hexavalent

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: DW-1
Global ID: T0604500291	Well depth from TOC: -
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☐ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: -
Time: 12:00	Water level from TOC: -
Recorded by: R. Johnson	Screened interval: -
Purge time (duration):	Well elevation (TOC): -

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume:	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed:	Well volumes removed:

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
						1/	
						2/	
						3/	
						/	

Notes: RUN PUMP FOR 15 MIN PRIOR TO collecting sample collect sample from HOSE BIB IN PUMP HOUSE 25' N W of RESIDENCE.

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time:

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: LHW-2
Global ID: T0604500391	Well depth from TOC: —
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☐ 2" ☐ 4" ☐ 6" ☑ Other:
Date: 9/30/05	Product level from TOC: —
Time: 12:00	Water level from TOC: —
Recorded by: R. Johnson	Screened interval: —
Purge time (duration):	Well elevation (TOC): —

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: —	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: —	Well volumes removed: —

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
						1/	
						2/	
						3/	
						/	

Notes: RUN HOSE BIB ON EAST SIDE OF RESTAURANT FOR 5 MIN. PRIOR TO collecting SAMPLE. STAFF REPORTED THE well BY THE TOP OF THE BLUFF ON THE WEST SIDE OF THE ROAD (LHW-2) WAS SUPPLYING WATER

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time:

☐ Bailer:	Type:	GPM:	☑ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: DP
Global ID: T0604500291	Well depth from TOC: –
Project location: 3300 N. Hwy 1. Albion, CA	Well diameter: ☐ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 9/30/05	Product level from TOC: –
Time: 12:00	Water level from TOC: –
Recorded by: R. Johnson	Screened interval: –
Purge time (duration):	Well elevation (TOC): –

WEATHER

Wind: 0-5 mph	Precip. in last 5 days: N

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: –	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: –	Well volumes removed: –

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	DO mg/l	Case Volume gal.	Appearance
						1/	
						2/	
						3/	
						/	

Notes: Collect samples from the NW corner of the Duck Pond water level in pond ≈ 2-3 feet below top level

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time:

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 0-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

Appendix B

Laboratory Analytical Report

OCT 1 4 2005

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled:	09/30/05
320 Professional Center Ste. 215		Date Received:	09/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Reported:	10/07/05
	Client P.O.:	Date Completed:	10/07/05

WorkOrder: 0509715

October 07, 2005

Dear Chris:

Enclosed are:

1). the results of 13 analyzed samples from your **#0302; Albion Shell project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
320 Professional Center Ste. 215		Date Received: 09/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 10/06/05-10/07/05
	Client P.O.:	Date Analyzed: 10/06/05-10/07/05

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0509715

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	W	3700,a	---	410	6.6	190	14	1	94
002A	MW-6	W	13,000,a	---	920	61	350	690	20	114
003A	MW-7	W	ND	---	ND	ND	ND	ND	1	95
004A	MW-10	W	ND	---	ND	ND	ND	ND	1	101
005A	MW-13	W	ND	---	ND	0.50	ND	1.0	1	95
006A	MW-14	W	ND	---	ND	0.56	ND	1.1	1	94
007A	MW-15	W	91,000,a	---	17,000	11,000	1500	6700	250	97
008A	MW-16	W	45,000,a	---	9600	2800	930	4200	33	102
009A	MW-17	W	ND	---	ND	ND	ND	ND	1	96
010A	MW-18	W	9900,a	---	2000	220	430	440	20	109
011A	DW-1	W	ND	---	ND	ND	ND	ND	1	97
012A	LHW-2	W	ND	---	ND	ND	ND	ND	1	95
013A	DP	W	ND	---	ND	ND	ND	ND	1	96

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
320 Professional Center Ste. 215		Date Received: 09/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 10/06/05-10/07/05
	Client P.O.:	Date Analyzed: 10/06/05-10/07/05

Oxygenated Volatile Organics by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509715

Lab ID	0509715-001B	0509715-002B	0509715-003B	0509715-004B	Reporting Limit for DF =1	
Client ID	MW-2	MW-6	MW-7	MW-10		
Matrix	W	W	W	W		
DF	200	200	1	100	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<100	ND<100	ND	ND<50	NA	0.5
t-Butyl alcohol (TBA)	1800	ND<1000	ND	ND<500	NA	5.0
Diisopropyl ether (DIPE)	ND<100	ND<100	ND	ND<50	NA	0.5
Ethanol	ND<10,000	ND<10,000	ND	ND<5000	NA	50
Ethyl tert-butyl ether (ETBE)	ND<100	ND<100	ND	ND<50	NA	0.5
Methanol	ND<100,000	ND<100,000	ND	ND<50,000	NA	500
Methyl-t-butyl ether (MTBE)	6500	8200	ND	1400	NA	0.5
Surrogate Recoveries (%)						
%SS1:	107	105	106	104		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
320 Professional Center Ste. 215		Date Received: 09/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 10/06/05-10/07/05
	Client P.O.:	Date Analyzed: 10/06/05-10/07/05

Oxygenated Volatile Organics by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509715

Lab ID	0509715-005B	0509715-006B	0509715-007B	0509715-008B	Reporting Limit for DF =1	
Client ID	MW-13	MW-14	MW-15	MW-16		
Matrix	W	W	W	W		
DF	2	3.3	1000	2000	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<1.0	ND<1.7	ND<500	ND<1000	NA	0.5
t-Butyl alcohol (TBA)	31	ND<17	ND<5000	ND<10,000	NA	5.0
Diisopropyl ether (DIPE)	ND<1.0	ND<1.7	ND<500	ND<1000	NA	0.5
Ethanol	ND<100	ND<170	ND<50,000	ND<100,000	NA	50
Ethyl tert-butyl ether (ETBE)	ND<1.0	ND<1.7	ND<500	ND<1000	NA	0.5
Methanol	ND<1000	ND<1700	ND<500,000	ND<1,000,000	NA	500
Methyl-t-butyl ether (MTBE)	81	94	28,000	63,000	NA	0.5
Surrogate Recoveries (%)						
%SS1:	106	107	105	104		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
		Date Received: 09/30/05
	Client Contact: Chris Janiszewski	Date Extracted: 10/06/05-10/07/05
	Client P.O.:	Date Analyzed: 10/06/05-10/07/05

Oxygenated Volatile Organics by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509715

Lab ID	0509715-009B	0509715-010B	0509715-011B	0509715-012B	Reporting Limit for DF =1	
Client ID	MW-17	MW-18	DW-1	LHW-2		
Matrix	W	W	W	W		
DF	1	1000	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND<500	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND<5000	ND	ND	NA	5.0
Diisopropyl ether (DIPE)	ND	ND<500	ND	ND	NA	0.5
Ethanol	ND	ND<50,000	ND	ND	NA	50
Ethyl tert-butyl ether (ETBE)	ND	ND<500	ND	ND	NA	0.5
Methanol	ND	ND<500,000	ND	ND	NA	500
Methyl-t-butyl ether (MTBE)	22	32,000	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	105	103	107	107		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
320 Professional Center Ste. 215		Date Received: 09/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 10/06/05-10/07/05
	Client P.O.:	Date Analyzed: 10/06/05-10/07/05

Oxygenated Volatile Organics by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0509715

					Reporting Limit for DF =1	
Lab ID	0509715-013B					
Client ID	DP					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND				NA	0.5
t-Butyl alcohol (TBA)	ND				NA	5.0
Diisopropyl ether (DIPE)	ND				NA	0.5
Ethanol	ND				NA	50
Ethyl tert-butyl ether (ETBE)	ND				NA	0.5
Methanol	ND				NA	500
Methyl-t-butyl ether (MTBE)	ND				NA	0.5
Surrogate Recoveries (%)						
%SS1:	105					
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
320 Professional Center Ste. 215		Date Received: 09/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 10/03/05
	Client P.O.:	Date Analyzed: 10/05/05

Metals*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 0509715

Lab ID	Client ID	Matrix	Extraction	Molybdenum	Selenium	Vanadium	DF	% SS
001D	MW-2	W	DISS.	0.89	ND	ND	1	N/A
002D	MW-6	W	DISS.	ND	ND	ND	1	N/A
007D	MW-15	W	DISS.	0.68	0.82	ND	1	N/A
008D	MW-16	W	DISS.	1.9	0.78	ND	1	N/A
009D	MW-17	W	DISS.	1.9	ND	0.68	1	N/A
010D	MW-18	W	DISS.	0.57	ND	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	0.5	0.5	0.5	µg/L
	S	TTLC	NA	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
320 Professional Center Ste. 215		Date Received: 09/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 09/30/05-10/01/05
	Client P.O.:	Date Analyzed: 10/03/05

Hexachrome by IC*

Analytical Method: E218.6 Work Order: 0509715

Lab ID	Client ID	Matrix	Hexachrome	DF
0509715-001C	MW-2	W	ND	1
0509715-002C	MW-6	W	ND	1
0509715-007C	MW-15	W	ND	1
0509715-008C	MW-16	W	ND	1
0509715-009C	MW-17	W	ND	1
0509715-010C	MW-18	W	ND	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 µg/L	
	S	NA	

* water samples are reported in µg/L.

N/A means surrogate not applicable to this analysis; # surrogate diluted out of range or surrogate coelutes with another peak.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to matrix interference; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
320 Professional Center Ste. 215		Date Received: 09/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 10/03/05
	Client P.O.:	Date Analyzed: 10/03/05-10/04/05

Inorganic Anions by IC*

Analytical methods: E300.1

Work Order: 0509715

Lab ID	Client ID	Matrix	Bromide	DF	% SS
0509715-001C	MW-2	W	1.3	1	92
0509715-002C	MW-6	W	0.88	1	101
0509715-007C	MW-15	W	1.5	1	102
0509715-008C	MW-16	W	0.73	1	92
0509715-009C	MW-17	W	0.13	1	101
0509715-010C	MW-18	W	1.5	1	99

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.1	mg/L
	S	NA	NA

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0302; Albion Shell	Date Sampled: 09/30/05
		Date Received: 09/30/05
	Client Contact: Chris Janiszewski	Date Extracted: 10/04/05
	Client P.O.:	Date Analyzed: 10/04/05-10/05/05

Inorganic Anions by IC*

Analytical methods: E300.1

Work Order: 0509715

Lab ID	Client ID	Matrix	Bromate	DF	% SS
0509715-001C	MW-2	W	ND	1	N/A
0509715-002C	MW-6	W	ND	1	N/A
0509715-007C	MW-15	W	ND	1	N/A
0509715-008C	MW-16	W	ND	1	N/A
0509715-009C	MW-17	W	ND	1	N/A
0509715-010C	MW-18	W	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.005	mg/L
	S	NA	NA

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high inorganic content; k) sample arrived with head space.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509715

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 18358** **Spiked Sample ID: 0509715-011A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) £	ND	60	106	.107	0.933	109	108	0.827	70 - 130	70 - 130
MTBE	ND	10	94.6	87.8	7.38	102	101	0.638	70 - 130	70 - 130
Benzene	ND	10	108	88	20.7	106	110	3.08	70 - 130	70 - 130
Toluene	ND	10	105	89.3	15.8	106	109	3.12	70 - 130	70 - 130
Ethylbenzene	ND	10	109	92.4	16.7	113	114	1.01	70 - 130	70 - 130
Xylenes	ND	30	100	94.7	5.48	107	100	6.45	70 - 130	70 - 130
%SS:	97	10	107	97	9.57	97	102	5.27	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18358 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509715-001A	9/30/05 4:00 PM	10/06/05	10/06/05 8:37 PM	0509715-001A	9/30/05 4:00 PM	10/07/05	10/07/05 1:28 PM
0509715-002A	9/30/05	10/07/05	10/07/05 6:29 AM	0509715-003A	9/30/05 3:00 PM	10/07/05	10/07/05 5:15 PM
0509715-004A	9/30/05 3:05 PM	10/07/05	10/07/05 7:01 AM	0509715-004A	9/30/05 3:05 PM	10/07/05	10/07/05 3:10 PM
0509715-005A	9/30/05 3:10 PM	10/07/05	10/07/05 1:33 AM	0509715-006A	9/30/05 3:20 PM	10/07/05	10/07/05 2:06 AM
0509715-007A	9/30/05 5:00 PM	10/07/05	10/07/05 2:58 PM	0509715-008A	9/30/05 4:45 PM	10/07/05	10/07/05 7:34 AM
0509715-008A	9/30/05 4:45 PM	10/07/05	10/07/05 3:17 PM	0509715-009A	9/30/05 3:30 PM	10/07/05	10/07/05 2:39 AM
0509715-010A	9/30/05 4:30 PM	10/07/05	10/07/05 8:07 AM	0509715-010A	9/30/05 4:30 PM	10/07/05	10/07/05 3:47 PM
0509715-011A	9/30/05 2:30 PM	10/07/05	10/07/05 4:18 AM	0509715-012A	9/30/05 2:40 PM	10/07/05	10/07/05 3:12 AM
0509715-013A	9/30/05 2:50 PM	10/07/05	10/07/05 3:45 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0509715

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 18351** **Spiked Sample ID: 0509715-009B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	110	106	4.26	112	109	2.60	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	94	94.7	0.740	98.4	95.1	3.44	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	119	118	1.08	118	119	0.0629	70 - 130	70 - 130
Ethanol	ND	500	112	107	4.13	110	106	3.11	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	114	112	2.00	111	111	0	70 - 130	70 - 130
Methanol	ND	2500	103	104	0.648	107	103	4.27	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	22	10	NR	NR	NR	113	113	0	70 - 130	70 - 130
%SS1:	105	10	104	104	0	104	105	1.10	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18351 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509715-001B	9/30/05 4:00 PM	10/06/05	10/06/05 4:02 PM	0509715-002B	9/30/05	10/06/05	10/06/05 6:11 PM
0509715-003B	9/30/05 3:00 PM	10/06/05	10/06/05 6:53 PM	0509715-004B	9/30/05 3:05 PM	10/06/05	10/06/05 7:36 PM
0509715-005B	9/30/05 3:10 PM	10/06/05	10/06/05 8:18 PM	0509715-006B	9/30/05 3:20 PM	10/06/05	10/06/05 9:01 PM
0509715-007B	9/30/05 5:00 PM	10/07/05	10/07/05 1:52 PM	0509715-008B	9/30/05 4:45 PM	10/07/05	10/07/05 2:35 PM
0509715-009B	9/30/05 3:30 PM	10/07/05	10/07/05 6:09 AM	0509715-010B	9/30/05 4:30 PM	10/07/05	10/07/05 3:18 PM
0509715-011B	9/30/05 2:30 PM	10/07/05	10/07/05 7:33 AM	0509715-012B	9/30/05 2:40 PM	10/07/05	10/07/05 8:15 AM
0509715-013B	9/30/05 2:50 PM	10/07/05	10/07/05 8:58 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer

DHS Certification No. 1644

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0509715

EPA Method: E200.8 | **Extraction: E200.8** | **BatchID: 18354** | **Spiked Sample ID: 0510055-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Molybdenum	2.5	10	101	104	2.12	99.7	104	3.93	75 - 125	85 - 115
Selenium	ND	10	102	102	0	102	103	1.18	75 - 125	85 - 115
Vanadium	5.0	10	99.2	104	3.24	108	109	0.923	75 - 125	85 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18354 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509715-001D	9/30/05 4:00 PM	10/03/05	10/05/05 4:27 PM	0509715-002D	9/30/05	10/03/05	10/05/05 4:55 PM
0509715-007D	9/30/05 5:00 PM	10/03/05	10/05/05 5:04 PM	0509715-008D	9/30/05 4:45 PM	10/03/05	10/05/05 5:13 PM
0509715-009D	9/30/05 3:30 PM	10/03/05	10/05/05 5:23 PM	0509715-010D	9/30/05 4:30 PM	10/03/05	10/05/05 5:32 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E218.6

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0509715

EPA Method: E218.6 **Extraction: E218.6** **BatchID: 18362** **Spiked Sample ID: 0509715-001c**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Hexachrome	ND	25	101	103	1.69	92.2	99.5	7.60	90 - 110	90 - 110

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18362 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509715-001c	9/30/05 4:00 PM	10/03/05	9/30/05 10:26 PM	0509715-002c	9/30/05	10/03/05	9/30/05 11:00 PM
0509715-007c	9/30/05 5:00 PM	10/03/05	9/30/05 11:33 PM	0509715-008c	9/30/05 4:45 PM	10/03/05	0/01/05 12:06 AM
0509715-009c	9/30/05 3:30 PM	10/03/05	0/01/05 12:40 PM	0509715-010c	9/30/05 4:30 PM	10/03/05	10/01/05 1:13 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0509715

EPA Method: E300.1 **Extraction: E300.1** **BatchID: 18235** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Bromide	N/A	1	N/A	N/A	N/A	110	106	4.04	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	96	95	0.209	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18235 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509715-001c	9/30/05 4:00 PM	10/03/05	0/03/05 10:42 PM	0509715-002c	9/30/05	10/03/05	0/03/05 11:11 PM
0509715-007c	9/30/05 5:00 PM	10/03/05	0/03/05 11:40 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0509715

EPA Method: E300.1 **Extraction: E300.1** **BatchID: 18361** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Bromide	N/A	1	N/A	N/A	N/A	93	93.9	0.956	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	99	99	0	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18361 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509715-008c	9/30/05 4:45 PM	10/03/05	0/04/05 12:09 AM	0509715-009c	9/30/05 3:30 PM	10/03/05	0/04/05 12:38 PM
0509715-010c	9/30/05 4:30 PM	10/03/05	10/04/05 1:06 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

VM QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0509715

EPA Method: E300.1 **Extraction: E300.1** **BatchID: 18385** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Bromate	N/A	0.040	N/A	N/A	N/A	101	103	2.23	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 18385 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0509715-001c	9/30/05 4:00 PM	10/04/05	0/04/05 10:09 PM	0509715-002c	9/30/05	10/04/05	0/04/05 10:51 PM
0509715-007c	9/30/05 5:00 PM	10/04/05	0/04/05 11:33 PM	0509715-008c	9/30/05 4:45 PM	10/04/05	0/05/05 12:15 PM
0509715-009c	9/30/05 3:30 PM	10/04/05	0/05/05 12:56 AM	0509715-010c	9/30/05 4:30 PM	10/04/05	10/05/05 1:38 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

Edd Clark & Associates, Inc.
Environmental Consultants

0509715

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker: Yes ☒ No ☐ Initials CJ

Samplers Signature: CHRIS JANISZEWSKI

EC&A job # 0302

Global I.D. # T060 4500291

Facility Name & Location: ALBION SHELL 3300 N Hwy #1 ALBION CA

Analysis

Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items 40ml/L	TPHG BTEX	7 OXYGENATES 8260	BROMIDE/T BROMATE VANADIUM SELENIUM	MOLYBDENUM	HEXA CHROME DISSOLVED	Remarks
MW-2	9/30/05	400		descent	W	3/3	X	X	X	X	X	
MW-6		415				3/3	X	X	X	X	X	
MW-7		300				3	X	X		✓	✓	
MW-10		345				3	X	X				
MW-13		310				3	X	X				
MW-14		320				3	X	X				
MW-15		500				3/3	X	X	X	X	X	
MW-16		4:45				3/3	X	X	X	X	X	
MW-17		330				3/3	X	X	X	X	X	
MW-18		430				3/3	X	X	X	X	X	

ICE/ GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ DECHLORINATED IN LAB ___ APPROPRIATE CONTAINERS ✓ PRESERVED IN LAB ___

PRESERVATION VOAS | O&G | METALS | OTHER

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
[signature]	9/30/05	2150	[signature]				
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:

Edd Clark & Associates, Inc.
Environmental Consultants

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker: Yes ☒ No ☐ Initials CJ

Samplers Signature: CHRIS JANISZEWSKI

EC&A job # 0302

Global I.D. # T0604500291

Facility Name & Location: ALBION SHELL

Analysis

Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items	TPHG BTEX	7 Oxygenates 8260				Remarks
DW-1	9/30/05	230		Grab	W	3	X	X				
LHW-2	↓	240			↓	3	X	X				
DP	↓	240			↓	3	X	X				

ICE ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ____
PRESERVED IN LAB ____
APPROPRIATE CONTAINERS ✓

PRESERVATION: VOAS | O&G | METALS | OTHER

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
[signature]	9/30/05	2150	[signature]				
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0509715 **ClientID: ECAR** **EDF: YES**

Report to:
Chris Janiszewski
Edd Clark & Associates, Inc.
320 Professional Center Ste. 215
Rohnert Park, CA 94928

TEL: (707) 792-9500
FAX: (707) 792-9504
ProjectNo: #0302; Albion Shell
PO:

Bill to:
Accounts Payable
Edd Clark & Associates, Inc.
320 Professional Center Ste.215
Rohnert Park, CA 94928

Requested TAT: 5 days
Date Received: 09/30/2005
Date Printed: 10/03/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0509715-001	MW-2	Water	9/30/05 4:00:00 PM	☐	C	C	B	A	D	D	A								
0509715-002	MW-6	Water	9/30/05	☐	C	C	B	A	D	D									
0509715-003	MW-7	Water	9/30/05 3:00:00 PM	☐			B	A											
0509715-004	MW-10	Water	9/30/05 3:05:00 PM	☐			B	A											
0509715-005	MW-13	Water	9/30/05 3:10:00 PM	☐			B	A											
0509715-006	MW-14	Water	9/30/05 3:20:00 PM	☐			B	A											
0509715-007	MW-15	Water	9/30/05 5:00:00 PM	☐	C	C	B	A	D	D									
0509715-008	MW-16	Water	9/30/05 4:45:00 PM	☐	C	C	B	A	D	D									
0509715-009	MW-17	Water	9/30/05 3:30:00 PM	☐	C	C	B	A	D	D									
0509715-010	MW-18	Water	9/30/05 4:30:00 PM	☐	C	C	B	A	D	D									
0509715-011	DW-1	Water	9/30/05 2:30:00 PM	☐			B	A											
0509715-012	LHW-2	Water	9/30/05 2:40:00 PM	☐			B	A											
0509715-013	DP	Water	9/30/05 2:50:00 PM	☐			B	A											

Test Legend:

1	218_6_W	2	300_1_W	3	7-OXYS_W	4	G-MBTEX_W	5	METALSMS_DISS
6	PRDISSOLVED	7	PREDF REPORT	8		9		10	
11		12		13		14		15	

Prepared by: Rosa Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Appendix C

O&M Logs

EC&A O ERATIONS AN MAINTENANCE LOG

Page 1 of 1

Project and Task Number:	0302	Date:	8/31/05
Project Name:	Albion Shell	Project Location:	3300 N. Hwy 1
Name:	CHRIS J	Company:	EC&A
In:		Out:	

TIME	DESCRIPTION OF WORK PERFORMED: EXC PANEL
	SYSTEM DOWN
	BURNT WIRES
	1) MAIN PWER SWITCH @ WIRE BLOCK ⊖ GFI NUETRAL
	2) WIRE BLOCK TO THE RIGHT OF LATCH Relay (RED WIRE)
	REPLACE LARGE BLOCK 3 ORDER SMALL BLOCK BY LATCH.
	SPICE RED WIRE TEMPORARILY
	REWIRE PANEL FOR (AUTO START UP) TWO TRANSFORMERS
	+ Relay

Well ID														
Temp °F			See		T-2									
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10				
4368/32	20	19	23	20	22	24	24	24						

NO RUN time

EC&A O ERATIONS AN MAINTENANCE LOG

Page 1 of 1

Project and Task Number:	0302	Date:	8/31/05
Project Name:	Albion Shell	Project Location:	3300 N. Hwy 1
Name:	CHRIS J	Company:	EC&A
In:		Out:	

TIME	DESCRIPTION OF WORK PERFORMED: T-1 PANEL
	SYSTEM RUNNING
	REWIRE PANEL FOR (AUTO START UP) TWO TRANSFORMER
	AND Relay
	CLEAN OUT INTAKE & clean out compressors

Well ID														
Temp °F				See		T-2								
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10				
5861/14	26	25	30	25	31	27	27	28						

EC&A O ERATIONS AN MAINTENANCE LOG

Page 1 of _____

Project and Task Number: 0302 | Date: 08/31/05

Project Name: Albion Shell | Project Location: 3300 N. Hwy 1

Name: CHRIS J | Company: EC&A | In: | Out:

TIME	DESCRIPTION OF WORK PERFORMED T-2 PANEL
	SYSTEM RUNNING
	REWIRE PANEL FOR (AUTO START UP) TWO TRANSFORMERS
	AND RELEY
	CLEAN OUT INTAKE & CLEAN OUT COMPRESSOR
	O3 IS 0.00 PPM IN STATION AND DEL. BLD

Well ID	MW-17	2	16	13	6	18								
Temp °F	61.3	61.7	60.9	59.8	59.9	60.7								
DO mg/L	1.11	.14	.14	.15	.14	.31								
Sys clock 4801/67	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10				
	20	20	24	25	20	24	25	25						

EC&A O ERATIONS AN MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302 | Date: 9/30/05

Project Name: ALBION SHELL | Project Location: 3300 N HWY #1

Name: CHRIS J | Company: ECTA | In: | Out:

	SYSTEM RUNNING .03 PPM O3 OUT OF COMPRESSOR
	OPEN UP COMPRESSOR & CLEAN & INSP. RECCOMEND NEW
	PISTON NEXT O+M. RE ASSEMBLE. INSTALL FAR RIGHT
	SMALL WIRE BLOCK (CORRODED) REP WIRE. (✓) ALL WIRE CONNECTIONS
	LOWER FAN REPLACED. (NOT RUNNING) PRESSURE CHECK
	CLEAN OUT INTAKE TUBE RECCOMEND INTAKE FILTER
	REPLACE DOOR RED LIGHT BULB (BURNT OUT)

Well ID														
Temp °F			DO	ON	QM	FILLED LOGS								
DO mg/L														
Sys clock 4967/54	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10	PARTS	SMALL WIRE BLOCK FAN BULB		
	21	19	24	OFF	20	22	25	24						

SP-2

EC&A O ERATIONS AN MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302		Date: 9/30/05	
Project Name: ALBION SHELL		Project Location: 3300 N HWY #1	
Name: CHRIS J	Company: ECTA	In:	Out:

SYSTEM RUNNING .04-.05 PPM O3 OUT OF COMPRESSOR
OPEN & CLEAN OUT COMPRESSOR RECOMEND NEW PISTON / MC
NEXT O+M, CYLINDAR FLIPPED TWICE BUT GOOD CONDITION
CLEAN OUT INTAKE, PRESSURE CHECK, TIGHTEN ALL WIRE
BLOCKS

Well ID														
Temp °F			DO	ON	QM	FIELD	LOGS							
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10				
6219/49	26	25	30	25	30	27	27	30						

EC&A C ERATIONS AN MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302		Date: 9/30/05	
Project Name: ALBION SHELL		Project Location: 3300 N HWY #1	
Name: CHRIS J	Company: ECTA	In:	Out:

SYSTEM RUNNING .03-.04 PPM O3 OUT OF COMPRESSO
OPEN COMPRESSOR INSP / CLEAN, RECOMEND NEW
PISTON ON NEXT O+M (✓) ALL WIRE CONNECTION
CLEAN INTAKE TUBE, REPROGRAM TIMER, PRESSURE CHECK

Well ID														
Temp °F			DO	ON	QM	FIELD	LOGS							
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10				
5361/86	25.5	25	25.5	27	26	25	27.5	25	23.5	✓				