PES Environmental, Inc.
Engineering & Environmental Services

April 28, 2006

272.005.01.072

Mr. Jim Tischler
California Regional Water Quality Control Board –
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

2006 ANNUAL MONITORING REPORT AND CLOSURE REQUEST
GOLDEN GATE BRIDGE HIGHWAY AND TRANSPORTATION DISTRICT
SANTA ROSA BUS FACILITY – GEOTRACKER GLOBAL ID T0609700543
3225 INDUSTRIAL DRIVE
SANTA ROSA, CALIFORNIA

Dear Mr. Tischler:

On behalf of the Golden Gate Bridge and Highway Transportation District (District), PES Environmental, Inc. (PES) is transmitting this 2006 Annual Monitoring Report and Closure Request for the Santa Rosa Bus Facility in Santa Rosa, California (Site). This report is being submitted in accordance with the March 23, 2005 California Regional Water Quality Control Board, North Coast Region (RWQCB) Monitoring and Reporting Program Order No. R1-2005-0024 (Order), and the subsequent letter from the District to your office dated June 22, 2005. A copy of the Order and June 22, 2005 letter are included in Attachment A. This report discusses background information, the 2006 annual monitoring event, monitoring results, water quality objectives (WQOs), request for Site closure, and a summary of report findings.

In accordance with the Order, this report and supporting information (i.e., laboratory results, survey information, and a site map) have also been submitted to the state's GeoTracker system.

BACKGROUND

The Site is located at the corner of Industrial Drive and Piner Road in Santa Rosa, California (Plate 1). The Site is located immediately adjacent to and west of a nearby Hewlett-Packard (HP) property with a history of documented releases of halogenated volatile organic compounds (HVOCs). HP operates a groundwater extraction and treatment system to remediate HVOCs that have been identified in groundwater originating from HP's site.

From the 1960s to 1972, the Site was utilized as a small private airport. The District acquired the Site in 1972, and since 1973, the District has used the Site for a passenger bus depot. The Site's features include an asphalt-paved bus parking area, fueling facility (Fuel Building), an administration building, and a bus wash area (Wash Island), as shown on Plate 2.

The District initially utilized two then-existing 10,000-gallon underground storage tanks (USTs) for diesel fuel storage. In 1975, the District installed two 12,000-gallon USTs adjacent to the Fuel Building and converted the existing 10,000-gallon USTs for storage of water and an inorganic rust inhibitor. The 10,000-gallon USTs were removed in 1990.

In 1992, the District conducted a soil and groundwater investigation in the area of the former 10,000-gallon USTs, which identified the presence of petroleum hydrocarbons and HVOCs in soil and groundwater samples. Three groundwater monitoring wells were installed cross-gradient (MW-1), upgradient (MW-2) and downgradient (MW-3) of the former 10,000-gallon USTs. The wells were installed to total depths of 18 to 20 feet below ground surface (bgs).

A soil vapor extraction (SVE) system was installed in the vicinity of the former 10,000-gallons USTs and operated during the dry seasons (June to October) in 1994 and 1995. The presence of HVOCs was not detected in samples of the soil vapors submitted for laboratory analysis. The SVE system removed approximately 400 pounds of petroleum hydrocarbons.

In 1998, two 15,000-gallon USTs were installed at a new location (shown on Plate 2) and the 12,000-gallon USTs were removed. Soil sampling was conducted during the 1998 UST removal/replacement activities. Laboratory analysis of the soil samples did not indicate detectable concentrations of petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene, xylenes (BTEX), or methyl tert butyl ether (MTBE), except two soil samples (sample Soil-New-S and Soil-New-E) contained 1.6 milligrams per kilogram (mg/kg) and 3.9 mg/kg of TPHd, respectively. The TPHd reported in the soil samples did not match the laboratory diesel standard. Groundwater was not observed in the excavations during the tank replacement activities.

In 1999, the District met with the RWQCB to ascertain the remaining work needed at the Site. The RWQCB advised the following closure requirements:[1]

- The site must be adequately characterized. For the next monitoring event, the RWQCB required that aviation fuel be included in the laboratory analytical program (because the site was formerly an airport and the presence of atypical TPHg and TPHd chromatograph patterns had been identified in laboratory samples) as well as EPA Method 8260 (to assess for MTBE and leaded gasoline additives);

[1] California Regional Water Quality Control Board, North Coast Region, 1999. *Golden Gate Bridge District, 3225 Industrial Drive, Santa Rosa, Case No. ITSR020.* September 29.

- Documentation must be provided showing that water quality objectives (WQOs) have been met or will be met within a reasonable timeframe. In general, a declining trend over time is needed to show that WQOs will be met in a reasonable timeframe; and

- In cases where residual contamination is left in place, a sensitive receptor survey must be conducted, the extent of contamination must be provided, and documentation must be provided to show a lack of contaminant migration.

In 2000, in addition to the above requirements, the RWQCB requested that the District submit a work plan to define the vertical and horizontal extent of petroleum hydrocarbon and HVOC contamination in soil and groundwater[2]. The RWQCB also requested that the District schedule the next groundwater monitoring to coincide with the groundwater monitoring conducted at the HP site. In 2001, in order to comply with the RWQCB request, the District cooperated in a joint monitoring well sampling effort with HP to further assess the source of low concentrations of HVOCs identified in the District's wells. In 2001, the District also submitted a sensitive receptor survey report for the Site to the RWQCB.

In February 2002, the District formerly requested closure of the Site with respect to fuel hydrocarbon contaminants.[3] The District opined that the source of the HVOCs identified in the District's monitoring wells originated from the adjacent HP facility. In May 2002, the RWQCB responded to the District's closure request. The RWQCB agreed that the Site had been adequately characterized, the sensitive survey report was acceptable, the extent of contamination had been defined, and that the District had provided documentation to show a lack of contaminant migration[4]. However, the RWQCB stated that "several constituents of concern identified in groundwater samples significantly exceed WQOs, and there is no clear evidence that these objectives will soon be achieved." The constituents of concern in groundwater included: benzene at a concentration of 98 micrograms per liter (μg/L); aviation gasoline (av-gas) at a concentration of 440 μg/L; jet fuel (JP-4) at a concentration of 180 μg/L; trichloroethylene (TCE) at a concentration of 69 μg/L; and vinyl chloride at a concentration of 22 μg/L.

In October 2002, HP issued a report on the HP/District cooperative HVOCs sampling study and the RWQCB requested that the District provide their evaluation and recommendations related to the presence of HVOCs in groundwater at the Site.[5] In 2003, the District presented a forensic evaluation report to the RWQCB to provide additional information related to the

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[2] California Regional Water Quality Control Board, North Coast Region, 2000. *Golden Gate Bridge District, 3225 Industrial Drive, Santa Rosa, Case No. ITSR020.* December 18.

[3] Golden Gate Bridge Highway and Transportation District, 2002. *Year 2001 Second Semi-Annual Progress Report (July through December) Fourth and Final Progress Report, and Site Closure Request*. February 6.

[4] California Regional Water Quality Control Board, North Coast Region, 2002. *Comments on Request for Site Investigation Closure, 3225 Industrial Drive, Santa Rosa*. May 16.

[5] California Regional Water Quality Control Board, North Coast Region, 2002. *File Memorandum, Evaluation Report and Recommendations for HVOC in Groundwater at GGBD*. October 31.

District's position that the presence of HVOCs at the Site can be attributed to HP.[6] This report presented information related to the degradation of HVOCs in the presence of petroleum hydrocarbons and a conceptual model to explain the occurrence of HVOCs at the Site as originating from HP. Groundwater flow and gradient are influenced by preferential migration along sanitary sewer utility trenches as well as HP's groundwater extraction activities (which commenced in 1982). The sanitary sewer utility trench located within Industrial Drive separates the Site from the HP property. The sewer line and backfill materials penetrate the upper water-bearing zone and provide a preferential pathway for migration of impacted groundwater from HP, with migration occurring south along Industrial Drive and then west along Piner Road. The sanitary sewer lines on Piner and Industrial Roads are shown on Plate 2.

The forensic report also noted that nearby monitoring wells installed by HP are shallower than the District's wells (with maximum depths of the shallow zone wells ranging from 12 to 16 feet bgs); shallower wells would tend to have a lower propensity for assessing HVOCs because the water that is sampled may be more representative of surface water recharge rather than the underlying groundwater.

In 2005, the RWQCB requested that the District prepare a work plan to assess the lateral extent of potential on-site sources of TCE and related compounds in soil and groundwater at the Site, and issued the aforementioned monitoring and reporting Order[7]. The District requested a time extension and a meeting to further discuss the RWQCB's request. In June 2005, the District met with the RWQCB to further explain the conceptual model presented in the forensics evaluation report, and to advise that additional assessment could provide ambiguous and/or inconclusive data relating to the presence of HVOCs in groundwater at the Site[8]. At the meeting, the RWQCB agreed to review the information presented by the District in more detail to evaluate what additional work, if any, would be required by the District related to the presence of HVOCs in site groundwater. Regarding the hydrocarbon contaminants, the District agreed to perform groundwater monitoring the first quarter of year 2006. If the results showed a further decrease in concentrations of hydrocarbon contaminants, the District would renew its request for a "no further action" designation with respect to the hydrocarbon contaminants.

In December 2005, the District issued a request for proposal for environmental engineering services at the Site. In March 2006, PES received the notice to proceed with work at this Site, including the 2006 annual monitoring event required by the Order.

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[6] WEST Environmental Services &Technology, 2003. *Forensic Evaluation, 3225 Industrial Drive, Santa Rosa, California*. December.

[7] California Regional Water Quality Control Board, North Coast Region, 2005. *Status of Site Investigation, Golden Gate Bridge District, 3225 Industrial Drive, Santa Rosa, California*. March 23.

[8] Golden Gate Bridge Highway and Transportation District, 2005. *Golden Gate Bridge Highway and Transportation District Bus Facility, 3225 Industrial Drive, Santa Rosa, California*. June 22.

2006 ANNUAL MONITORING EVENT

On March 8, 2006, Ms. Susan Gahry of PES notified you that the annual monitoring event would be conducted on March 15, 2006. Ms. Gahry inquired as to whether the use of EPA-approved low flow methodology could be used to sample the wells and you indicated that such would not be acceptable unless conventional sampling was also used to allow a comparison of results. On March 9, 2006, Ms. Gahry informed you that conventional sampling would be used and that because the wells had not been sampled since 2001, that the wells would also be redeveloped prior to sampling.

Prior to conducting field activities, PES prepared a site-specific health and safety plan (HASP). On March 15, 2006, PES field personnel oversaw the following activities:

- ESS redeveloped the three wells by mechanical surging (swabbing) and pumping with a surface centrifugal pump (with new dedicated tubing in each well) to remove a minimum of ten well casing volumes and achieve stabilization of field measurements of water quality (e.g., pH, specific conductance, temperature and turbidity). The purge water was contained in 55-gallon labeled drums and left on-Site pending appropriate disposal. ESS redevelopment records are included in their report in Attachment B;

- Before well redevelopment commenced, ESS sounded the wells to assess water levels. After well redevelopment activities were complete, ESS sounded the wells again to ensure that the water levels had recovered to at least 80% prior to initiating sampling activities;

- Prior to well sampling, ESS removed a minimum of three well casing volumes and monitored water quality parameters until stabilization. A surface-mounted centrifugal pump with new dedicated tubing in each well was used for purging the wells. ESS collected groundwater samples using new bottom-emptying disposable polyethylene bailers. The samples were placed on ice in a chilled, thermally insulated cooler and submitted to state-certified Torrent Laboratory of Milpitas, California under chain-of-custody (COC) documentation. The samples were analyzed for HVOCs using EPA Method 8260 and total petroleum hydrocarbons as jet fuel (JP-4) and av-gas using EPA Method 8015. ESS' sampling records are included in Attachment B;

- Because prior 2001 monitoring records indicated that the well casing on well MW-1 was cracked and in need of repair (to allow sealing of the well casing with a locked cap), well MW-1 was repaired. Environmental Sampling Services (ESS) of Martinez, California installed a PVC coupling over the crack and added an approximate 2-inch extension of PVC casing on top of the existing casing. This well was repaired after the initial depth to water level measurements and redevelopment activities. A measurement of the exact extension length was not made. Thus, the results of the initial depth-to-water measurements could not be used to assess the groundwater gradient. Also,

because the wells may not have recovered from redevelopment at the same rate, the water levels collected after redevelopment were not deemed reliable for purposes of assessing gradient information; and

- CSS Environmental Services, Inc. (CSS) of Novato, California surveyed the three wells for elevation and location to comply with GeoTracker reporting requirements. The North American Vertical Datum of 1988 (preferred by GeoTracker) was used as the elevation reference. CSS's survey report is included as Attachment C. CSS completed the elevation survey after the well casing repair on well MW-1.

On April 6, 2006, ESS replaced two well boxes (MW-1 and MW-2) because the bolts could no longer be used to secure the well. Because well MW-1 had been repaired after the initial well elevation monitoring was conducted on March 15, 2006 and the results of elevation monitoring conducted after well redevelopment on March 15, 2006 may have been influenced by the well redevelopment work (all wells may not have recovered at the same rate), PES conducted elevation monitoring again on April 7, 2006. Depth-to-groundwater measurements were obtained using an electronic water-level indicator and recorded to the nearest 0.01-foot. The water-level indicator was cleaned with a solution of non-phosphate detergent and de-ionized water, and rinsed before each use.

On April 7, 2006, Dillard Environmental Services (Dillard), of Byron, California removed the purge water from this sampling event and prior sampling events using a vacuum truck. Approximately 250 gallons of purge water was shipped under a non-hazardous waste manifest to InStrat, Inc., a non-hazardous liquid waste disposal facility in Rio Vista, California. A copy of the non-hazardous waste manifest is included as Attachment D.

MONITORING RESULTS

Groundwater elevation data are presented in Table 1 and inferred groundwater elevation contours are presented on Plate 3. Based on these data, the groundwater flow direction across the Site is inferred to be to the south-southeast (147.5° from north) towards Piner Creek (across Piner Road) with an approximate gradient of 0.011 foot per foot. Prior groundwater elevation data are provided in Attachment E.

The laboratory analytical report for the groundwater samples collected on March 15, 2006 is included as Attachment F and laboratory analytical results are summarized on Table 2. The results indicate the following:

- Jet fuel and av-gas were not detected above the reporting limits of 100 to 106 μg/L and 50 μg/L, respectively, in the samples from the three wells;

- Although TPHd analysis was not requested on the COC, the initial laboratory report indicated the presence of non-typical TPHd in the samples from wells MW-1 and MW-3. To further assess whether TPHd was actually present, PES requested that the laboratory reanalyze these samples for TPHd using the silica gel cleanup method. The purpose of the silica gel cleanup method is to remove non-fuel hydrocarbons, including naturally occurring hydrocarbons, to prevent them from being falsely quantified as TPHd. The TPHd laboratory analytical results, after silica gel cleanup, indicated non-detectable concentrations of TPH-d;

- Benzene was detected in the samples from well MW-1 and MW-3 at concentrations of 7.40 μg/L and 7.39 μg/L, respectively. Benzene was not detected in the sample from well MW-2;

- Ethylbenzene was detected in the samples from wells MW-2 and MW-3 at concentrations of 0.87 μg/L and 0.63 μg/L, respectively. Ethylbenzene was not detected in the sample from well MW-1;

- TCE was detected in the sample from wells MW-1 and MW-2 at concentrations of 4.41 μg/L and 1.76 μg/L, respectively. TCE was not detected in the sample from well MW-3;

- Cis-1,2-DCE was detected in the sample from well MW-1 at a concentration of 18.4 μg/L. Cis-1,2-DCE was not detected in the samples from wells MW-2 and MW-3;

- Vinyl chloride was detected in the samples from well MW-1 and MW-3 at concentrations of 7.27 μg/L and 1.95 μg/L, respectively. Vinyl chloride was not detected in the sample from well MW-2; and

- Naphthalene, isopropyl benzene, and n-propylbenzene were detected in the sample from well MW-3 at concentrations of 4.76 μg/L, 1.91 μg/L, and 1.07 μg/L, respectively. These constituents were not detected in the sample from wells MW-1 and MW-2. The full 8260 analyte list was used by the laboratory, not the abbreviated 8021 list that may have previously been used at this Site.

A summary of historical well concentrations is provided as Table 3. A review of changes in the detected concentrations in each well indicates significant reductions of all contaminants previously identified:

- Av-gas concentrations in samples from well MW-1 and MW-3 are significantly lower (non-detectable) than the October 2001 results of 550 μg/L and 440 μg/L, respectively. Av-gas has not been detected in samples from well MW-2;

- Jet fuel (JP-4) concentrations in samples from MW-1 and MW-3 are significantly lower (non-detectable) than the October 2001 results of 180 μg/L and 180 μg/L, respectively. Jet fuel has not been detected in samples from well MW-2;

- Benzene concentrations in samples from MW-1 (7.40 μg/L) and MW-3 (7.39 μg/L) are significantly lower than the October 2001 results of 11 μg/L and 22 μg/L, respectively. Benzene has not been detected in the samples from well MW-2;

- TCE concentrations in samples from MW-1 (4.41 μg/L) and MW-2 (1.76 μg/L) are significantly lower than the October 2001 results of 69 μg/L and 2.4 μg/L, respectively. TCE has not been detected in samples from well MW-3;

- The cis-1,2-DCE concentration in the sample from MW-1 (18.4 μg/L) is significantly lower than the October 2001 result of 31 μg/L. Cis-1,2-DCE has not been detected in samples from wells MW-2 and MW-3;

- Vinyl chloride concentrations in samples from MW-1 (7.27 μg/L) and MW-3 (1.95 μg/L) are significantly lower than the October 2001 results of 11 μg/L and 22 μg/L, respectively. Vinyl chloride has not been detected in sample from well MW-2.

WATER QUALITY OBJECTIVES

As previously discussed, in February 2002, the District requested closure of the Site with respect to fuel hydrocarbon contaminants. In May 2002, the RWQCB expressed concern regarding clear evidence that WQOs will be achieved. As shown on Table 2, the March 2006 groundwater monitoring results indicate that WQOs have been achieved for av-gas, ethylbenzene, and cis-1,2-DCE, but not for JP-4 (due to a detection limit higher than the WQO), benzene, TCE, and vinyl chloride. However, the monitoring results do indicate that the concentration trend for these constituents is clearly downward, with the March 2006 results significantly lower than prior results.

A review of site closure petitions initiated in accordance with the State's underground storage tank program indicates that site closure has been granted in cases where cleanup objectives can be met in a reasonable timeframe. The State Water Resources Control Board (State Water Board) has issued a case review that states the following[9]:

[9] State Water Board, 2005. *Order: WQ 2005-008-UST, Petition of Dan Thomas for Review of Denial of Petroleum Underground Storage Tank Site Closure at 596 East Perkins Street, Ukiah, California*. June 16.

- State Water Board Resolution 92-49 does not require that the requisite level of water quality be met at the time of site closure but allows for compliance with cleanup goals and objectives in a reasonable timeframe;

- A reasonable timeframe for achieving water quality objectives can be "a few decades"; and

- Although a localized area of groundwater may exceed WQOs for as long as a few decades, it is highly unlikely that a water supply well will be installed in the vicinity of the site during the period that WQOs for domestic and municipal supply beneficial use are exceeded. Even if that unlikely event occurred, standard drinking water well construction practices would prevent the shallow affected groundwater from having any adverse effect on deeper groundwater.

REQUEST FOR CLOSURE

Based on the March 2006 groundwater monitoring results, which clearly indicate a downward trend and progress towards meeting WQOs, the District is renewing its request for Site closure with respect to petroleum hydrocarbons.

SUMMARY

This report provided the following:

- Background information, including a summary of prior site activities, information on the adjacent HP site, the District's prior closure request, and regulatory interactions;

- The 2006 annual groundwater monitoring event was conducted on March 15, 2006 and included: redevelopment of the three Site monitoring wells; repair of the casing on well MW-1; surveying the wells to comply with Geotracker reporting requirements; measuring depth-to-water; sampling the wells for HVOCs, av-gas, and JP-4. Additionally, in April 2006, the wellhead monuments on wells MW-1 and MW-2 were replaced due to broken bolts, depth-to-water was measured, and purge water was removed for off-site disposal;

- The water level monitoring results indicated the groundwater flow direction across the Site was to the south-southeast (147.5^{o} from north) towards Piner Creek (across Pinter Road) with an approximate gradient of 0.011 foot per feet;

- The laboratory analytical results for the groundwater samples collected from the wells were reviewed. Jet fuel and av-gas were not detected above levels of 100 to 106 μg/L

and 50 μg/L, respectively. Low levels of HVOCs were detected, with maximum detected concentrations of 7.40 μg/L benzene, 0.87 μg/L of ethylbenzene, 4.41 μg/L of TCE, 18.4 μg/L of cis-1,2-DCE, and 7.27 μg/L of vinyl chloride. The full 8260 list (rather than the more limited 8021 list) was utilized by the laboratory and low concentrations of other petroleum hydrocarbon constituents were detected in the sample from well MW-3. The constituents detected in well MW-3 included: naphthalene, isopropyl benzene, and n-propylbenzene at concentrations of 4.76 μg/L, 1.91 μg/L, and 1.07 μg/L, respectively; and

- A review of the WQOs necessary for achieving site closure, based on the State Water Board's interpretation of State Water Board Resolution 92-49, was included. Although WQOs have not yet been achieved for all constituents at this Site, there is now clear evidence that WQOs will be achieved in a reasonable time period (i.e., a few decades). On this basis, and other criteria cited from the State Water Board's review of site closure petitions, the District is again requesting Site closure with respect to petroleum hydrocarbon.

Please call Susan Gahry at (415) 899-1600 if you have any questions.

Very truly yours,

PES ENVIRONMENTAL, INC.

Susan Gahry, P.E.
Principal Engineer

Keith O'Brien, P.G., C. HG.
Principal Hydrogeologist

PROFESSIONAL GEOLOGIST
KEITH M. O'BRIEN
No. 141
CERTIFIED HYDROGEOLOGIST
STATE OF CALIFORNIA

cc: Mr. Lynford Edwards, Golden Gate Bridge Highway and Transportation District (4 copies)

Attachments: Table 1 – Depth to Groundwater and Groundwater Elevations
Table 2 – Groundwater Concentrations – First Quarter 2006
Table 3 – Summary of Historical Groundwater Concentrations

Plate 1 – Site Location Map
Plate 2 – Site Map
Plate 3 – Groundwater Elevation Contour Map

Attachment A – Order and June 20, 2005 District Letter to RWQCB
Attachment B – ESS Report
Attachment C – CSS Survey Report
Attachment D – Non-Hazardous Waste Manifest
Attachment E – Prior Groundwater Elevation Measurements
Attachment F – Laboratory Analytical Results and COC Documentation

TABLES

TABLE 1
DEPTH TO GROUNDWATER AND GROUNDWATER ELEVATIONS
GOLDEN GATE BRIDGE HIGHWAY AND TRANSPORTATION DISTRICT
SANTA ROSA BUS FACILITY, SANTA ROSA, CALIFORNIA

Well Number	Date	Top of Casing Elevation (feet[1])	Depth to Water (Feet BTOC)[2]	Water-level Elevation (Feet)
MW-1	7-Apr-06	178.44	10.37	168.07
MW-2	7-Apr-06	177.59	8.41	169.18
MW-3	7-Apr-06	175.85	8.60	167.25

Notes:
1. Wells surveyed on March 15, 2006 by CSS Environmental Services of Novato, CA.
   The North American Vertical Datum of 1988 (preferred by GeoTracker) was used as the elevation reference.
   The wells were surveyed with respect to monuments labeled JT9619 (located at Rohnert Park Expressway Caltrans Park and Ride Lot) and JT9625 (in Santa Rosa at the Sonoma County Administration Center).
   For further information on monument locations, go to "http://www.ngs.noaa.gov/cgi-bin/ds_pid.prl.
   GeoTracker = State Water Resources Control Board's Geographic Environmental Information Management System database.
2. BTOC = below top of casing.

TABLE 2
GROUNDWATER CONCENTRATIONS - FIRST QUARTER 2006
GOLDEN GATE BRIDGE HIGHWAY AND TRANSPORTATION DISTRICT
SANTA ROSA BUS FACILITY, SANTA ROSA, CALIFORNIA

(Results in µg/L)

Well Number	Sample Date	Av-gas	JP-4	Benzene	Ethylbenzene	TCE	cis-1,2-DCE	Vinyl Chloride
MW-1	15-Mar-06	<50	<100	7.40	<0.5	4.41	18.4	7.27
MW-2	15-Mar-06	<50	<106	<0.5	0.87	1.76	<0.5	<0.5
MW-3	15-Mar-06	<50	<100	7.39	0.63	<0.5	<0.5	1.95
Water Quality Objectives								
		<50	<50	1.0 / 0.15	29	5 / 0.8	6.0	0.5 / 0.05

Notes:

µg/L = micrograms per liter.

Sample from MW-3 also contained 4.76 µg/L of naphthalene, 1.91 µg/L of isopropylbenzene, and 1.07 µg/L of n-propylbenzene.

Av-gas indicates aviation gas.

JP-4 indicates jet fuel #4.

TCE indicates trichloroethylene.

cis-1,2-DCE indicates cis-1,2-dichloroethylene.

Water Quality Objectives from Monitoring and Reporting Program (Order) No. R1-2005-0024.

TABLE 3
SUMMARY OF HISTORICAL GROUNDWATER CONCENTRATIONS
GOLDEN GATE BRIDGE HIGHWAY AND TRANSPORTATION DISTRICT
SANTA ROSA BUS FACILITY, SANTA ROSA, CALIFORNIA

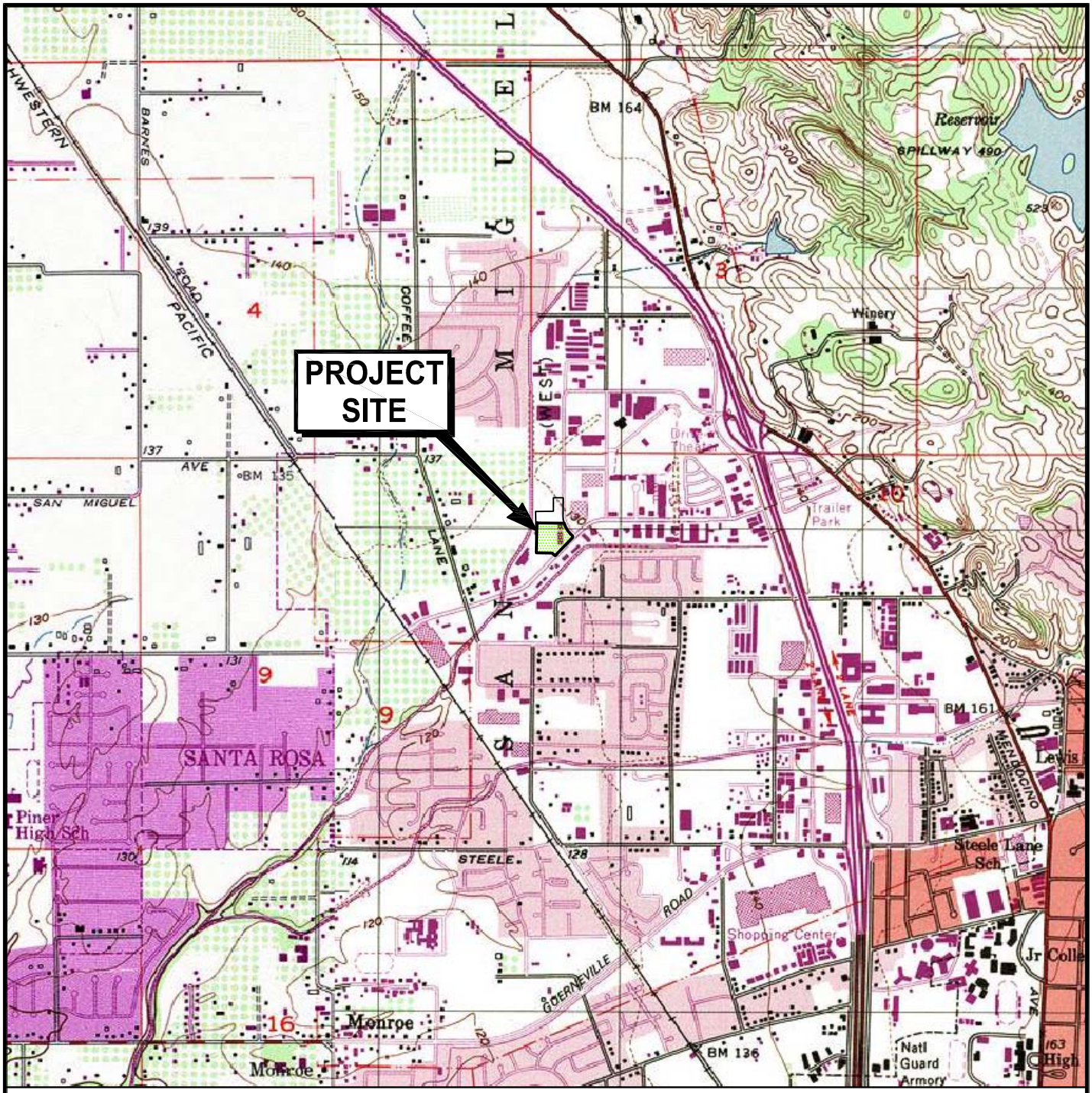
(Results in µg/L)

Well Number	Sample Date	TPH-G	Av-gas	TPH-Diesel	JP-4	Benzene	Ethylbenzene	Toluene	Xylenes	TCE	trans-1,2-DCE	cis-1,2-DCE	1,1-DCE	Vinyl Chloride
MW-1	16-Oct-92	2,500		770**		62	31	0.8	2.6					
	02-Jun-93	2,400*		680		150	16	<0.5	<0.5					
	12-Nov-93	4,000*		3,000		100	12	1.9	0.9					
	24-May-94	1,500		87		69	8.6	<0.5	<0.5					
	01-Jun-05	570 (560)				9.2 (8.9)	3.4 (3.9)	<0.5 (<0.5)	<0.5 (<0.5)					
	16-Sep-96	610 (470)		170+ (150)		1.1 (1.2)	<0.5	<0.5	<0.5					
	30-Apr-98	190*		120**		0.74	<0.5	<0.5	<0.5					
	17-Dec-98	720*		300**		5.6	<0.5	0.94J	<0.5					
	10-Jun-99	400*		65**		<0.5	<0.5	0.93	<0.5					
	23-May-00	<50^	140	<50	<50	1.4	<0.5	<0.5	<0.5	29	0.7	62	<0.5	12
	25-Sep-00	<50	330	<50	66	9.2	<0.5	0.61	<0.5					
	02-Apr-01	<50	200	<50	<50	13.0	<0.5	<0.5	<0.5	48	<0.5	18	<0.5	3.2
	29-Oct-01		550	<50	180	11.0	<0.5	<0.5	<0.5	69	<2.5	31	<2.5	11
	15-Mar-06	NA	<50	NA	<100	7.40	<0.5	<0.5	<1.0	4.41	<0.5	18.4	<1.0	7.27
MW-2	16-Oct-92	<50(<50)		<50(<50)		<0.5(<0.5)	<0.5(<0.5)	<0.5(<0.5)	<0.5(<0.5)					
	02-Jun-93	<50(<50)		<50(<50)		<0.5(<0.5)	<0.5(<0.5)	<0.5(<0.5)	<0.5(<0.5)					
	12-Nov-93	<50		130**		<0.5	<0.5	<0.5	<0.5					
	24-May-94	<50(<50)		130(130)		<0.5(<0.5)	<0.5(<0.5)	<0.5(<0.5)	<0.5(<0.5)					
	01-Jun-05	<50		+		<0.5	<0.5	<0.5	<0.5					
	16-Sep-96	<50		67		<0.5	<0.5	<0.5	<0.5					
	30-Apr-98	<50		<50		<0.5	<0.5	<0.5	<0.5					
	17-Dec-98	<50		<50		<0.5	<0.5	<0.5	<0.5					
	10-Jun-99	<50		<50		<0.5	<0.5	<0.5	<0.5					
	23-May-00	<50	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	0.71	<0.5	<0.5	<0.5	<0.5
	25-Sep-00	<50	<50	<50	<50	<0.5	<0.5	<0.5	<0.5					
	02-Apr-01	<50	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<0.5
	29-Oct-01		<50	<50	<50	<0.5	<0.5	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	<0.5
	15-Mar-06	NA	<50	NA	<106	<0.5	0.87	<0.5	<0.5	1.76	<0.5	<0.5	<1.0	<0.5
MW-3	16-Oct-92	2,900		300**		270	8.6	0.9	<0.5					
	02-Jun-93	2,500*		500		200	8.2	<0.5	<0.5					
	12-Nov-93	3,700*(3,800)*		750(620)		240(250)	18(18)	2.2(2.2)	0.8(0.7)					
	24-May-94	4,600		310.000		440	56	<0.5	<0.5					
	01-Jun-05	2,000		420**		120	10	2.9	<0.5					
	16-Sep-96	1,300		550		26	<10	37	<10					
	30-Apr-98	720*(2,000)*		800**(1,100)**		33(46)	4.1(6.5)	2.5(6.0)	<0.5(3.0)					
	17-Dec-98	2,200*(1,900)*		1,100**(1,000)**		15(73)	1.7(3.7)	3.6J(5.1)J	1.2(0.54)					
	10-Jun-99	1,300*(1,200)*		460**(490)**		46(46)	<0.50(<0.50)	2.5(2.6)	<0.50(<0.50)					
	23-May-00	<50^	3,500	<50^^	270	98	11	11	2.1	<0.5	<0.5	5.3	<0.5	13
	25-Sep-00	less than 4 inches of groundwater in the well, representative samples could not be collected												
	02-Apr-01	<50	510	<50	130	63	<0.5	<0.5	<0.5	<0.5	25	22	1.3	14
	29-Oct-01		440	<50	180	22	<0.5	<0.5	<0.5	<0.5	29	29	2.5	22
	3/15/2006[(a)]	NA	<50	NA	<100	7.39	0.63	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	1.95

Notes:
µg/L = micrograms per liter.
NA = not analyzed.
ND = not detected.
( ) = duplicate sample (in parentheses).
J = Estimated due to detection in field blank.
* = Laboratory noted the detected pattern did not match the typical gasoline pattern.
** = Laboratory noted the detected pattern did not match the typical diesel pattern.
+ = Apparent discrepancy in sample bottle labeling makes the data unusable.
^ = Laboratory noted that the detected pattern matched aviation gas pattern, not typical gasoline pattern.
^^ = Laboratory noted that the detected pattern matched jet fuel (Jet 4) pattern, not typical diesel pattern.
(a) = 15-Mar-06 sample from MW-3 also contained 4.76 µg/L of naphthalene, 1.91 µg/L of isopropylbenzene, and 1.07 µg/L of n-propylbenzene.

TPH-G indicates total petroleum hydrocarbons as gasoline.
TPH-D indicates total petroleum hydrocarbon as diesel.
Av-gas indicates aviation gas.
JP-4 indicates jet fuel #4.
TCE indicates trichloroethylene.
trans-1,2-DCE indicates trans-1,2-dichloroethylene.
cis-1,2-DCE indicates cis-1,2-dichloroethylene.
1,1-DCE indicates 1,1-dichloroethylene.

PLATES



0 2000 4000

Scale in Feet

N

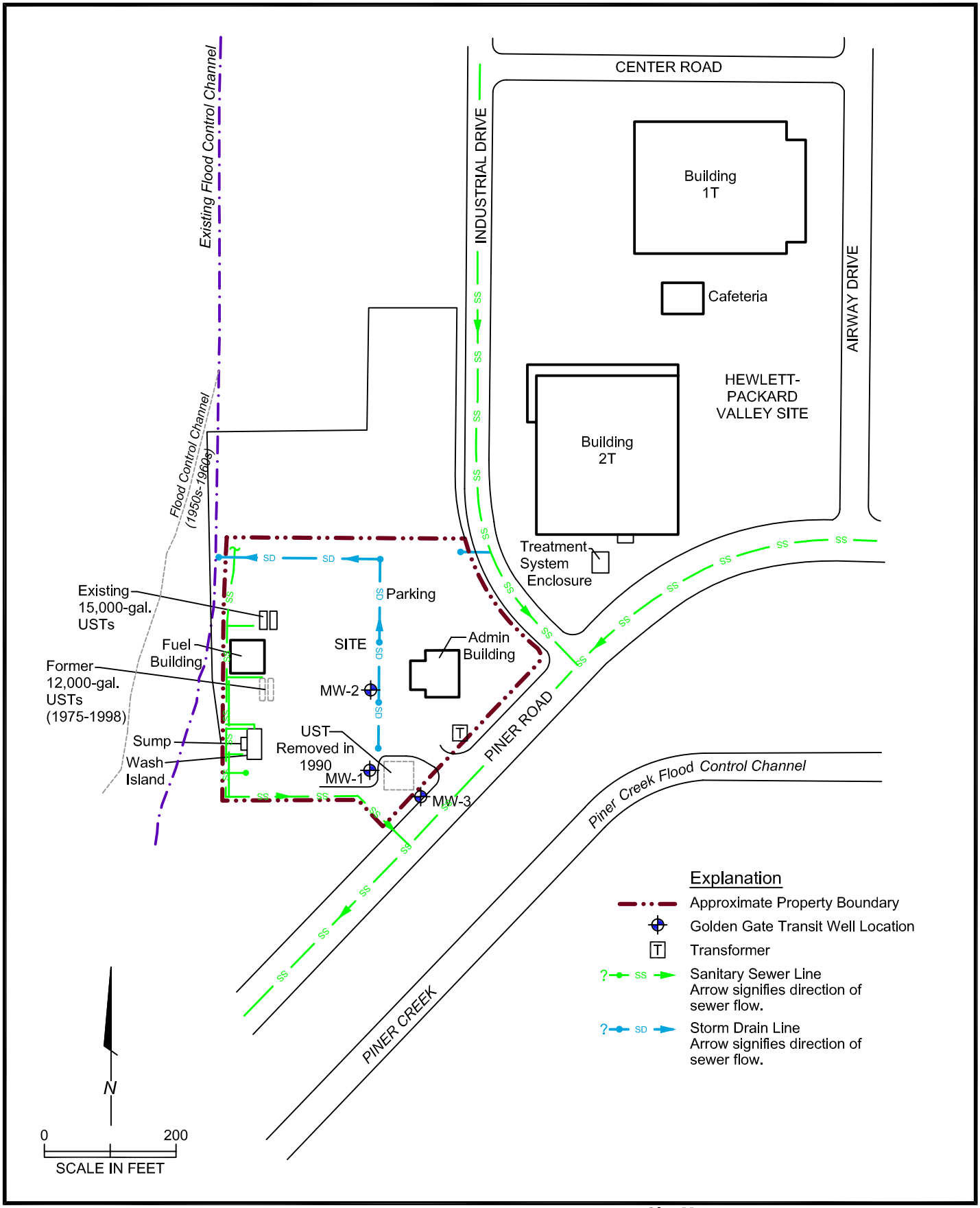
U.S.G.S. Topo Map - Sebastopol, California, 7.5-minute quadrangle.1954 photorevised 1980.
U.S.G.S. Topo Map - Santa Rosa, California, 7.5-minute quadrangle.1994.

PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
Golden Gate Bridge Highway
and Transportation District
Santa Rosa Bus Facility
Santa Rosa, California

PLATE
1

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
272.005.01.070	272-00501070_0406	SEG	4/06

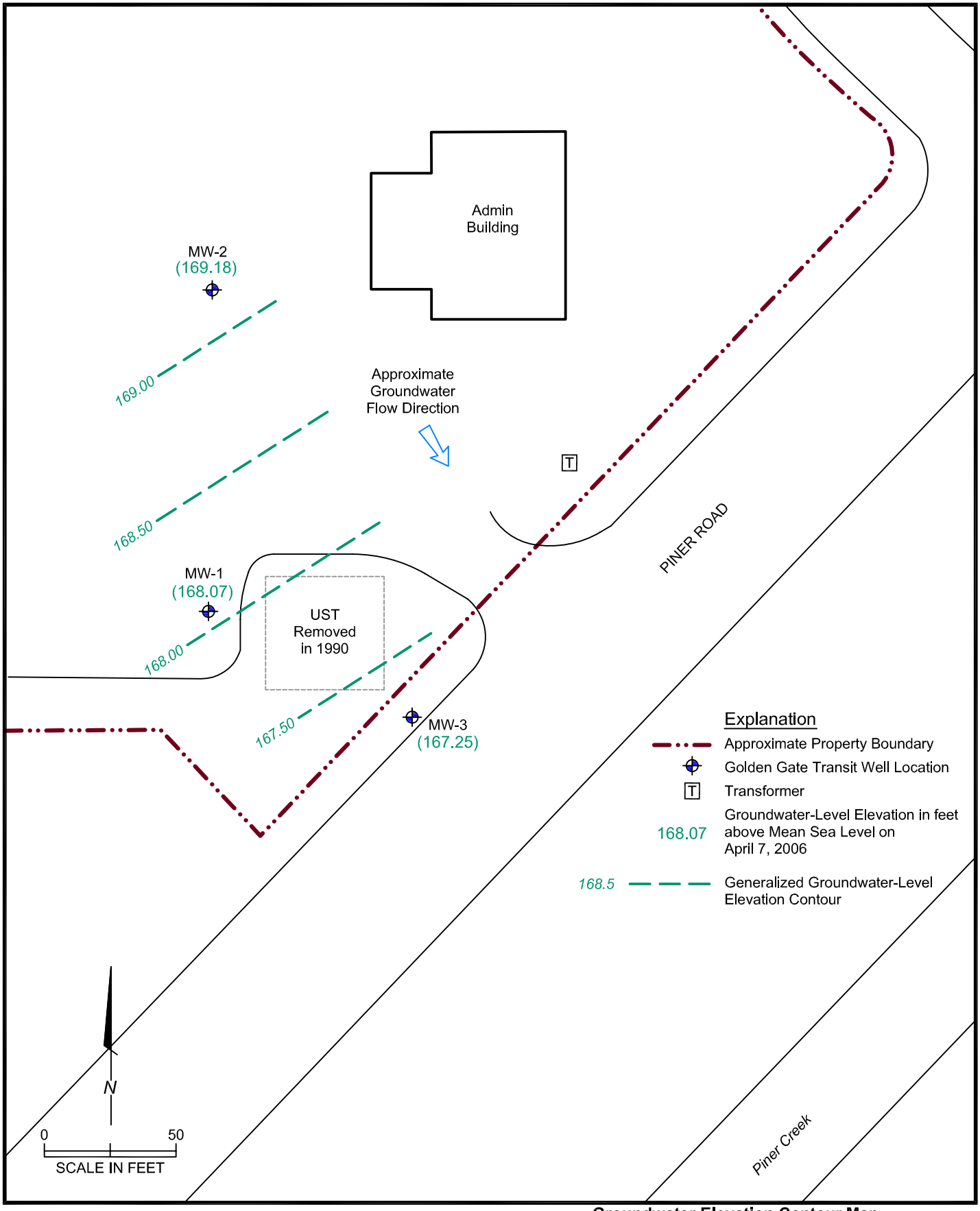


PES Environmental, Inc.
Engineering & Environmental Services

Site Map
Golden Gate Bridge Highway and Transportation District
Santa Rosa Bus Facility
Santa Rosa, California

PLATE
2

272.005.01.070	272-00501070_0406	SEG	4/06
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



PES Environmental, Inc.
Engineering & Environmental Services

Groundwater Elevation Contour Map
Golden Gate Bridge Highway
and Transportation District
Santa Rosa Bus Facility
Santa Rosa, California

PLATE
3

272.005.01.070	272-00501070_0406	SEG	4/06
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

ATTACHMENT A

ORDER AND JUNE 20, 2005 DISTRICT LETTER TO RWQCB

F

California Regional Water Quality Control Board
North Coast Region
Beverly Wasson, Chairperson

Alan C. Lloyd, Ph.D.
Agency Secretary

http://www.waterboards.ca.gov/northcoast
5550 Skylane Boulevard, Suite A, Santa Rosa, California 95403
Phone: 1 (877) 721-9203 (toll free) • Office: (707) 576-2220 • FAX: (707) 523-0135

Arnold Schwarzenegger
Governor

March 23, 2005

Mr. Lynford Edwards
Golden Gate Bridge, Highway and Transportation District
P.O. Box 9000
Presidio Station
San Francisco, CA 94129-0601

Dear Mr. Edwards:

Subject: Status of Site Investigation
File: Golden Gate Bridge District, 3225 Industrial Drive, Santa Rosa; Case No. 1TSR020

Regional Water Board staff has reviewed the site investigation at the Golden Gate Bridge, Highway and Transportation District (GGBD) property located at 3225 Industrial Drive in Santa Rosa (the Site) to consider your agency's request to eliminate testing for halogenated volatile organic compounds (HVOCs) and its recommendations for no-further-action status for the petroleum release investigation and cleanup. In previous correspondence, we have identified the achievement of water quality objectives in groundwater, or the reasonable expectation that water quality objectives will be achieved, as a condition for no-further-action status. Our assessment of the case status is presented below:

Request for Investigation of HVOC Contamination at the GGBD Site

In a letter dated December 18, 2000, we requested submittal of a work plan to define the extent of HVOC contamination in soil and in groundwater at the Site. In response to that request, GGBD proposed that the trichloroethylene (TCE) and related compounds present in groundwater beneath the Site have migrated from off-site sources, and it contends that GGBD should not be held responsible to investigate and monitor the extent of HVOC contamination. GGBD subsequently submitted the December 2003 Forensic Evaluation Report, prepared by WEST Environmental Services and Technology to assess likely sources of TCE in groundwater at the Site.

The report describes the known historical land uses at the Site and identifies the documented use and releases of TCE at the nearby former Hewlett-Packard "Valley Site" manufacturing facility. However, the report does not describe aircraft maintenance activities, including waste disposal practices, that likely occurred at the Site during the approximately twenty to thirty-year period prior to 1970 when the site was used as an airfield. Regional Water Board staff notes that the use and improper management of TCE at other similar airfield facilities has been documented. Therefore, a comprehensive preliminary site assessment of former land-use activities at the GGBD site would include the identification of all potential waste management practices that may have contributed to TCE contamination of groundwater and a recommendation for subsurface environmental sampling to assess potential releases of TCE within and surrounding former

locations of aircraft hangers at the Site. Accordingly, we request you to submit within sixty days a work plan to assess the lateral extent and potential on-site sources of TCE and related compounds in soil and groundwater at the Site.

Groundwater Monitoring Requirements

When the Site was last monitored in October 2001, the following chemical levels were present in groundwater:

- Petroleum hydrocarbons measured as "aviation gas", as high as 550 µg/l;
- Petroleum hydrocarbons a "jet fuel" as high as 180 µg/l;
- Benzene, as high as 22 µg/l;
- TCE as high as 69 µg/l;
- Cis-1,2-dichloroethylene as high as 31 µg/l;
- Vinyl Chloride as high as 22 µg/l;

Additional groundwater monitoring is needed at the Site to demonstrate that water quality objectives will be achieved without further remedial actions. Accordingly, the enclosed Monitoring and Reporting Program Order No. R1-2005-0024 has been issued for the site and requires annual groundwater sampling and analysis, to be conducted during the first quarter of each year to monitor water quality during the seasonal high water-table conditions (Enclosure).

Please contact me at (707) 576-2469 if you have any questions or comments regarding these matters.

Sincerely,

Jim Tischler

Jim Tischler
Environmental Scientist

JAT:clh\032305_JAT_GGBD 06let

Enclosures: (1) Monitoring and Reporting Program Order No. R1-2005-0024
(2) Appendix 1: Table of Water Quality Objectives

Certified Return Receipt Requested

CC:
Ms. Elizabeth McDonald, Hewlett-Packard Company, 1501 Page Mill Road, Palo Alto, CA 94304-1112
Santa Rosa Fire Department
Ms. Norma Jellison, Real Estate Specialist, Golden Gate Bridge Highway and Transportation District, 1011 Andersen Drive, San Rafael, CA 94901-5381

California Regional Water Quality Control Board
North Coast Region

Monitoring And Reporting Program No. R1-2005-0024

For

Golden Gate Bridge, Highway and Transportation District

3225 Industrial Drive
Santa Rosa, California
Sonoma County

MONITORING

1. The depth to groundwater shall be determined to the nearest 0.01-foot increment prior to purging and sampling in all groundwater monitoring wells. The data generated from the elevation readings must be referenced to mean sea level.

2. Water samples shall be collected for analysis annually from all monitoring wells at the site during the first quarter of each year.

3. The water samples shall be analyzed for the following constituents:
   - Total Petroleum Hydrocarbons measured as aviation gasoline, and as jet fuel
   - Volatile organic compounds by EPA Methods 8260.

4. Laboratory detection limits must be sufficiently low to detect the constituents of concern at the regulatory action levels identified in the Table of Water Quality Objectives, Appendix 1 of this Order.

5. All laboratory analyses shall be performed at a laboratory certified by the California Department of Health Services for those analyses.

REPORTING

1. Annual groundwater monitoring reports shall be submitted containing the following information:
   a. Current and previous analytical results shall be presented in tables which include:
      1. Sampling point
      2. Date of sample collection
      3. Constituents and analytical results; and
      4. Quantification limits employed for non-detect analytical results.
   b. An accurately scaled site plan showing the locations of monitoring wells, current and past underground storage tanks, and other significant site features.
   c. An accurately scaled groundwater elevation contour map shall be presented for each sampling event and shall include significant site features, groundwater elevation contour lines, and groundwater flow direction and gradient.
   d. Monitoring reports shall contain copies of the well purging and sampling field logs; chain of custody documents showing the time and date of collection and person collecting; and signed laboratory sheets including quality control data and

explanations of analytical anomalies, if any. These supporting documents may be included as appendices to the report.

2. Annual monitoring reports shall be submitted to this office in accordance with the following schedule:

Reporting Period	Due Date
January, February, March	April 30

3. Monitoring data shall also be submitted electronically to the State Water Resources Control Board's Geographic Environmental Information Management System database (GeoTracker) as required by Title 23, Division 3, Chapter 16, Article 12 of the California Code of Regulations (i.e., AB2886 electronic reporting requirements).

Ordered by Catherine Kuhlman

Catherine E. Kuhlman
Executive Officer

March 23, 2005

(032305_JAT_GGBD M&R Order)

Appendix 1
Table of Water Quality Objectives

CHEMICAL	BACKGROUND LEVEL	WATER QUALITY OBJECTIVE	CITATION
Petroleum Hydrocarbons (as gasoline)	<50 µg/l /l	50 µg/l	Taste and odor threshold is 5 µg/l, but detection limit is 50 µg/l and is controlling
Petroleum Hydrocarbons (as diesel)	<50 µg/l	56 µg/l	USEPA health advisory of September 4, 1992, Suggested No Adverse Response Level of 56 µg/l which is applied to narrative TOXICITY water quality objective
Petroleum Hydrocarbons (as motor oil)	<50 µg/l	<50.0 µg/l	U.S. EPA National Ambient Water Quality Criteria, Freshwater Aquatic Life Protection, May 1, 1986. SNARL of 0.1 µg/l to 1.0 µg/l is applied to the narrative TOXICITY objective of the Basin Plan and Oil and Grease criteria of the Basin Plan, but detection limit is 50 µg/l and is controlling
Benzene	<0.5 µg/l	1.0 µg/l 0.15 µg/l *	MCL is 1.0 µg/l; * PHG = 0.15 µg/l (California Public Health Goal, Cal/EPA, OEHHA) but the detection limit is controlling
Toluene	<0.5 µg/l	42 µg/l	USEPA taste and odor threshold, Federal Register 54(97): 22064-22138; applied TASTE AND ODOR water quality objective. There is a less stringent CA DHS Action Level of 100 µg/l applied to the TOXICITY water quality objective
Ethyl benzene	<0.5 µg/l	29 µg/l	USEPA taste and odor threshold, Federal Register 54(97):22064-22138; applied TASTE AND ODOR water quality objective; there is a less stringent Public Health Goal = 300 µg/l.
Xylenes	<0.5 µg/l	17 µg/l	USEPA taste and odor threshold, Federal Register 54(97):22064-22138 ; applied TASTE AND ODOR water quality objective; there is a less stringent CA MCL of 1750 µg/l
Methyl tertiary butyl ether (MTBE)	<5 µg/l	5 µg/l	The taste & odor threshold for MTBE = 5 µg/l and is the welfare-based secondary MCL.

Note: Laboratory detection limits must be sufficiently low to identify the constituents of concern at their respective regulatory action levels. For volatile organic compounds, use the EPA Method 8260 (modified), and report all compounds from the standard list of Method 8260 analytes that are detected in the analyses.

CHEMICAL	BACKGROUND LEVEL	WATER QUALITY OBJECTIVE	CITATION
1,2-Dichloroethane	<0.5 µg/l	0.5 µg/l 0.4 µg/l *	For protection of domestic supply, Title 22 Section 64444.5; * PHG = 0.4 µg/l (California Public Health Goal, Cal/EPA, OEHHA) but the detection limit is controlling
1,2-Dibromoethane a.k.a.: Ethylene dibromide; [EDB]	<0.5 µg/l	0.01 µg/l	California Public Health Goal = 0.01 µg/l but the detection limit is controlling
1,1-Dichloroethane	<0.5 µg/l	5 µg/l 3 µg/l *	For protection of domestic supply, Title 22 Section 64444.5 * PHG = 3 µg/l (California Public Health Goal, Cal/EPA, OEHHA) but the detection limit is controlling
1,1-Dichloroethene	<0.5 µg/l	6 µg/l	For protection of domestic supply, Title 22 Section 64444.5
1,1,1-Trichloroethane	<0.5 µg/l	200 µg/l	For protection of domestic supply, Title 22, Section 64444.5
Trichloroethene	<0.5 µg/l	5 µg/l 0.8 µg/l *	For protection of domestic supply, Title 22 Section 64444.5 * PHG = 0.8 µg/l (California Public Health Goal, Cal/EPA, OEHHA). The detection limit is controlling
Tetrachloroethene	<0.5 µg/l	5 µg/l 0.06 µg/l *	For protection of domestic supply, Title 22 Section 64444.5 * PHG = 0.06 µg/l (California Public Health Goal, Cal/EPA, OEHHA). The detection limit is controlling.
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.5 µg/l	1,200 µg/l	For protection of domestic supply, Title 22 Section 64444.5
cis-1,2-Dichloroethene	<0.5 µg/l	6 µg/l	For protection of domestic supply, Title 22 Section 64444.5
trans-1,2-Dichloroethene	<0.5 µg/l	10 µg/l	For protection of domestic supply, Title 22 Section 64444.5
Vinyl Chloride	<0.5 µg/l	0.5 µg/l 0.05 µg/l *	For protection of domestic supply, Title 22 Section 64444.5 * PHG = 0.05 µg/l (California Public Health Goal, Cal/EPA, OEHHA) but the detection limit is controlling
1,1,2-Trichloroethane	<0.5 µg/l	32 µg/l	For protection of domestic supply, Title 22 Section 64444.5.
1,2-Dichloroethane	<0.5 µg/l	0.5 µg/l	For protection of domestic supply, Title 22 Section 64444.5
1,1-Dichloroethane	<0.5 µg/l	5 µg/l	For protection of domestic supply, Title 22 Section 64444.5
1,1-Dichloroethene	<0.5 µg/l	6 µg/l	For protection of domestic supply, Title 22 Section 64444.5
1,1,1-Trichloroethane	<0.5 µg/l	200 µg/l	For protection of domestic supply, Title 22, Section 64444.5

Note: Laboratory detection limits must be sufficiently low to identify the constituents of concern at their respective regulatory action levels. For volatile organic compounds, use the EPA Method 8260 (modified), and report all compounds from the standard list of Method 8260 analytes that are detected in the analyses.

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City, State, ZIP+4: San Francisco - CA 94129-0601

PS Form 3800, June 2002 — See Reverse for Instructions

SENDER: *COMPLETE THIS SECTION*

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Lynford Edwards
Golden Gate Bridge, Hwy & Trans. District
PO Box 9000
Presido Station
San Francisco, CA 94129-0601

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☑ Agent ☐ Addressee

B. Received by (Printed Name): Alvin Wong
C. Date of Delivery: 3-25-05

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7004 2890 0004 7965 7198

PS Form 3811, August 2001 — Domestic Return Receipt — 102595-02-M-1540

RWQCB
REGION 1

JUN 2 3 2005

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☐ RLT ____ ☑ LGR ____ ☐ KAD ____
☐ NPQ ____ ☐ RSG ____ ☐ EJL ____
JT ✓

June 22, 2005

GOLDEN GATE BRIDGE
HIGHWAY & TRANSPORTATION DISTRICT

Mr. Jim Tischler
California Regional Water Quality Control Board
– North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

Re: **Golden Gate Bridge, Highway and Transportation District ("District") Bus Facility, 3225 Industrial Drive, Santa Rosa, California ("Site").**

Dear Mr. Tischler:

This letter is to follow-up our meeting of June 14, 2005, at your office in Santa Rosa at which we discussed the status of the referenced Site. This letter is intended to convey the District's understanding of the results of our discussions and the action items to be followed up by both parties.

First I would like to thank you, David Evans and Luis Rivera for taking the time to meet with me and the other representatives of the District. The productive exchange on the status of Site and the District's concerns about implementing the directives contained in the Board's March 23, 2005, letter was also appreciated. As you recall, our particular focus at the meeting was: (i) obtaining some direction from the Board on how to obtain site closure for the hydrocarbon impacts to the Site; and (ii) obtaining clarification of the Board's intent in its request for additional evaluation of the occurrence of halogenated-volatile organic compounds (HVOCs) and their breakdown constituents found in the groundwater beneath the Site. The following is a brief summary of the discussion on each item and our understanding of the status of each.

Regarding the hydrocarbon contaminates in the groundwater below the Site, the District stated that it has met the requirements for site closure under current regulatory standards. Those requirements are: (i) removal of the fuel source, (ii) a negative 500-foot radius sensitive receptor survey, (iii) demonstration of a stable groundwater plume, and (iv) decreasing hydrocarbon concentrations in groundwater. The District believes it has satisfied these requirements. However, you advised us that the data gathered to date by the District was not sufficient to justify a "no further action" recommendation. Specifically, you stated that while the data indicated decreasing concentrations of hydrocarbons and stability of the contaminant plume, the amount of data was not sufficient to conclusively state that the contaminant concentrations would be negligible or show asymptotic trends toward water quality goals within a reasonable amount of time. In response, the District has agreed to sample the groundwater from its three monitoring wells on the Site in the first quarter of 2006 as requested in your March 23, 2005, letter and compare the results with previous same-season monitoring results. If the sampling results indicate a further decrease in the amount of hydrocarbon contaminates in the groundwater, the District will renew its request that the Board recommends no further action regarding hydrocarbons at the Site.

Regarding the HVOC contaminates, namely TCE, TCA and their breakdown products, the District was focused on the Board's request for a workplan to perform additional evaluation of the occurrence of HVOC's on Site. There have been known occurrences of HVOC spills at properties upgradient of the District's Site and the District contended that those off-site upgradient releases were the source of the HVOC contaminates found in the groundwater on the Site. The District explained that historic upgradient releases, groundwater extraction, and other dynamic factors would limit the utility of additional Site evaluation efforts, and would provide ambiguous and inconclusive data regarding any potential HVOC contribution from historic Site use (i.e. as a private small airport). Furthermore, the District contended that occurrence of HVOCs at the Site could be fully explained by the known upgradient releases from the adjacent site as shown in conceptual site model that we presented to you.

You stated that you would like to review the information presented by the District to determine what, if any, additional work would satisfy the Board's needs for a satisfactory accounting of the HVOCs present in groundwater at our Site. You stated that you would soon be issuing a revised cleanup and abatement order to the adjacent property owners who have historically spilled HVOC's into the groundwater. You also suggested that their current remediation obligations may fully address and result in the cleanup of the HVOC's in groundwater beneath the Site. The District and Board agreed to continue working together to finalize a site closure work plan for the HVOC issue within the 90-day extension previously granted by the Board.

The District is in the process of procuring a contract for the hydrocarbon monitoring at the site and will submit a report on the results of the testing upon completion. I would like to again thank you for your assistance on this project and look forward to working with you to bring closure to this Site.

Should you have any questions or comments, you may contact me at (415) 923-2349.

Sincerely,

Lynford Edwards

Lynford Edwards. P.E.
Senior Engineer

cc: Luis Rivera, Assistant Executive Manager, NCRWQCB
David Evans, Senior Water Resource Control Engineer, NCRWQCB
Peter Krasnoff, WEST Environmental, Inc.
Rory Campbell, Hanson Bridgett
John Eberle, GGBHTD
DMulligan/EZBauer/3.5.26.6

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ATTACHMENT B

ESS REPORT

Environmental
Sampling Services

FIELD ACTIVITY REPORT
FOR

WELL RE-DEVELOPMENT & ANNUAL GROUNDWATER MONITORING PROGRAM MARCH 2006

GOLDEN GATE BRIDGE DISTRICT SANTA ROSA BUS FACILITY SANTA ROSA, CALIFORNIA

Tasks: Well Re-Development and Annual Groundwater Monitoring Program
ESS Personnel: Stephen Penman
Dates of Activities: March 15, 2006

Decontamination Procedures

All downhole equipment was cleaned with Liqui-Nox® laboratory-grade soap, potable water, and rinsed with distilled water prior to use and between each monitoring well.

Equipment Calibration

All field water quality meters were calibrated prior to use. The pH meter was calibrated using three pH buffer standard solutions 4, 7, and 10. The Turbidity meter was calibrated to 0.02 NTUs with a 0.02 NTU standard.

Specific Conductivity/Temperature meter is factory calibrated and runs through a self-test when the meter is activated.

Groundwater Level Measurements

Organic vapors were not requested.

Depth to groundwater level measurement was measured and recorded for all existing monitoring wells prior to well redevelopment. Each well was allowed to equilibrate to atmospheric pressure for at least 20 minutes. All readings were performed with a Solinst® electrical water level indicator. Each depth to groundwater level measurement was referenced to the north rim at the top of PVC well casing (Table 1). Three successive readings that agreed to within one-hundredth of a foot determined depth to groundwater.

Well Redevelopment

Mechanical surging for 10 minutes with a 2-inch PVC surge block and removal of 10 casing volumes with a centrifugal pump was used for well redevelopment. New pump tubing was used at each well. Standard field measurements (pH, Specific Conductance, Temperature and Turbidity) were recorded during redevelopment. Each

6680 Alhambra Ave., #102 • Martinez, CA 94553-6105 • (925) 372-8108 • Fax: (925) 372-6705
www.envsampling.com

well was allowed to recover between 1.5 hours to 2 hours after redevelopment. Well depths were confirmed after redevelopment.

Well Purging & Sampling Procedures

The removal of at least three well casing volumes and stabilization of water quality parameters (pH, Specific Conductance, and Temperature,) were required prior to sampling. Stabilization occurred when three consecutive readings were within 10%.

A centrifugal pump with newly dedicated tubing was used for purging all wells. The pump intake was set just below the pumping water level.

New disposable polyethylene bailers with bottom emptying devices were used for sample collection.

Chemical Analyses

All wells were sampled for the following analyses: VOCs, BTEX, and MTBE by EPA 8260, and TPH-Aviation Gas & Jet Fuel.

Sample Containers

Torrent Laboratories of Milpitas, California provided all sample kit containers.

Each VOCs, TPH-Aviation and Jet Fuel sample set was contained in four, 40-ml VOA glass containers preserved with hydrochloric acid.

In addition, two, non-preserved, one-liter amber glass containers were collected from each well.

Sample Handling

All sample labels were completed with waterproof ink and affixed to sample containers. Groundwater samples were collected and containerized in the order of decreasing volatilization sensitivity.

During decanting, 40-ml VOA sample containers were slightly tilted to avoid aeration or degassing. Each sample container was inverted and tapped lightly to check for air bubbles. The absence of air bubbles indicated a successful seal.

Preserved sample containers were not overfilled. Non-volatile sample containers were filled to maximum capacity.

All samples were given to PES for proper documentation.

QA/QC

QA/QC samples were not requested.

Chain of Custody (COC) Forms

PES personnel completed the Chain of Custody documentation and relinquished samples to Torrent Laboratory.

Environmental
Sampling Services

Storage of Investigative Derived Wastewater (IDW)

Approximately 79 gallons of purged groundwater and decontamination water generated from this sampling event were stored on-site in two labeled 55-gallon drums. One drum contains approximately 52 gallons of purged groundwater from MW-2 and MW-3. The second drum contains approximately 27 gallons of purged groundwater from MW-1 and decontamination water.

Well Repairs

Each well received a new 2-inch watertight well cap and new keyed-alike American ®lock, Key Code 43737. New 9/16" bolts were replaced, where appropriate; however, the entire flush mounted well protection assembly at MW-1 and MW-2 need replacement. The existing bolts are rusted to the receiver and could not be extracted without further damage.

Jacqueline Lee
Partner

Enclosure
Table 1: Summary of Groundwater Monitoring and Sampling
Water Sample Log Sheets
Copy of Chain of Custody

Environmental Sampling Services

Table 1: Summary of March 2006 Annual Groundwater Monitoring and Sampling Event
Project Name: Golden Gate Bridge District-Santa Rosa Bus Facility
Project Address: 3225 Industrial Drive, Santa Rosa, California

Well I.D. I.D.	Date of Measurement (mm/dd/yr)	Time of Measurement	Depth to Groundwater (Feet, TOC)	Well Depth (Feet, TOC)	Sample Date (mm/dd/yr)	Sample Time	QA/QC Type	QA/QC Identification
MW-1	03/15/06	10:02	6.43	17.88	03/15/06	14:15	None	NA
MW-2	03/15/06	9:59	7.35	19.88	03/15/06	13:35	None	NA
MW-3	03/15/06	10:05	8.10	17.88	03/15/06	14:50	None	NA

Legend:
NM = Not Measurable
TOC = Top of Well Casing

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MW-1 DATE 3/15/06

Project Name: Golden Gate Bridge District, Santa Rosa Project Contact: Susan Gahry - PES Enviromental

Laboratory: Torrent (408) 263-5258 Weather Conditions: Overcast & warm

Well Description: 2" 3" 4" 5" 6" Other ____ Well Type: PVC Stainless Steel Other: ____

Is Well Secured? Yes / No Bolt Size 9/16" Type of lock / Lock number: American/43737

Observations / Comments: Installed new well cap, lock and 2-9/16" bolts (1 broken)

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic Pump Fultz Pump

Pump Lines: NA New / Cleaned / Dedicated Bailer Line: NA New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer Peristaltic Pump Other: ____

pH Meter Serial No.: 217254 / 330089 Spec. Cond. Meter Serial No.: 96H0203AB / AE

Date/Time Calibrated: 3/15 @ 10:30 4 7 10 @ 25°C Spec.Cond. Meter Calibration: Self Test Other: ____

Method to Measure Water Level: Solinst / Slope Serial No.: 25083 P.I.D. Reading: NA

Water Level at Start (DTW): 8.10 @ 10:05 Water Level Prior To Sampling: 9.05 ↑

TD = 17.88 - 8.62 (DTW) = 9.26 (ft.of water) x "K" = 1.5 (Gals./CV) x 3 (No. of CV) = 4.5 (Gals.)

"K" = 0.163 (2" well) "K" = 0.653 (4" well) "K" = 1.02 (5" well) "K" = 1.46 (6" well) "k" = 2.61 (8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS uS	Turbidity (NTU's)	Color	Dissolved Oxygen (mg/L)	Comments
3/15/06	14:39	1	7.34	20.6	266.0	115	Cloudy Lt. Brn.	—	
	14:40	2	7.27	20.5	271.7	71.2	"	—	
	14:42	3	7.11	21.1	266.8	147	"	—	
	14:43	4	7.01	21.2	280.2	106	"	—	
	14:45	5	6.91	21.5	281.3	119	"	—	
	14:46	6	6.90	21.4	286.9	97.3	"	—	

Total Discharge: 6 Gallons / Liters Casing Volumes Removed: 4.0

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: ____

Date/Time Sampled: 3/15/06 @ 14:50 Analysis/No. of Bottles: TPH - Aviation gas / Jet fuel + VOCs (8260) 6 sample containers = 2-1L ambers (~~TPH-Diesel + M. Oil~~ OK 3/20/06 4 VOAs w/HCl)

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: bolt broken in receiver - rusted together. Needs new well cover entrem assembly

Recorded By: Stephen Penman / Jacki Lee Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MW-1 DATE 3/15/06

Project Name: Golden Gate Bus Dist. Santa Rosa Project Task: Well Development

Laboratory: NA Weather Conditions: Partly Sunny + warm

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? Yes / No Bolt Size 9/16" Type of lock / Lock number: Installed New lock + Cap

Observations / Comments: Swabbed well 10 mins Prior to purging

Purge Method: Teflon/PVC Disposable Bailer (Centrifugal Pump) Grundfos Pump Peristaltic Pump

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: NA ~~Teflon Bailer Disp. PVC Bailer GrundFos Redi-flow Pump Peristaltic Pump~~

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 3/15 @ 10:30 (4 7 10) @ 25°C Spec.Cond. Meter Calibration: Self Test Other: ____

Method to Measure Water Level: Solinst Serial No.: 25083 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 8.10 Water Level Prior To Sampling: NA

TD = 17.88 - 8.10 (DTW) = 9.78 (ft.of water) x "K" = 1.6 (Gals /CV) x 10 (No. of CV) = 16 (Gals.)

(K"= 0.163(2" well)) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "k" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
3/15/06	12:46	2	6.71	22.5	251.6	>1000	Gray	Fines
	12:49	4	6.84	22.1	258.7	506	"	"
	12:51	6	6.51	23.4	292.5	221	Lt. Gray	"
	12:54	8	6.51	23.2	305.0	120	Cloudy Lt. Gray	"
	12:55	10	6.53	22.9	301.7	121	"	Clearing
	12:57	12	6.52	24.0	321.4	105	"	|
	12:58	14	6.54	22.9	323.5	102	"	|
	13:00	16	6.54	23.7	333.1	72.8	"	|

Total Discharge: 16 Gallons Casing Volumes Removed: 10

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: NA @ ____ Analysis/No. of Bottles: NA

QA/QC: NA @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacki Lee and (Stephen Penman) Signature(s): [signature]

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Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MW-2 DATE 3/15/06

Project Name: Golden Gate Bridge District, Santa Rosa Project Contact: Susan Gahry - PES Enviromental

Laboratory: Torrent (408) 263-5258 Weather Conditions: Partly Sunny + cool

Well Description: (2") 3" 4" 5" 6" Other _____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) / No Bolt Size 9/16" Type of lock / Lock number: American / 43737

Observations / Comments: Installed New well cap, Lock and 1 - 9/16" bolt

Purge Method: Teflon / PE Disposable Bailer (Centrifugal Pump) Peristaltic Pump Fultz Pump

Pump Lines: NA New / Cleaned (Dedicated) Bailer Line: NA (New) Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer (Disp. PE Bailer) Peristaltic Pump Other: _____

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 3/15 @ 10:30 (4 7 10) @ 25°C Spec.Cond. Meter Calibration: (Self Test) Other: _____

Method to Measure Water Level: Solinst / (Slope) Serial No.: 25083 P.I.D. Reading: NA

Water Level at Start (DTW): 7.35 @ 9:59 Water Level Prior To Sampling: 8.40 ↑

TD = 19.88 - 7.39 (DTW) = 12.49 (ft.of water) x "K" = 2.0 (Gals./CV) x 3 (No. of CV) = 6 (Gals.)

(K"= 0.163 (2" well)) "K" = 0.653 (4" well) "K" = 1.02 (5" well) "K" = 1.46 (6" well) "k" = 2.61 (8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Dissolved Oxygen (mg/L)	Comments
3/15/06	13:22	1	7.11	20.8	242.8	140	Cloudy Lt Brown	—	
	13:24	2	7.05	21.2	251.9	817	Lt. Brn.	—	
	13:27	3	7.08	21.5	245.8	760	"	—	
	13:28	4	7.08	22.0	253.2	917	"	—	
	13:30	5	7.11	22.1	254.9	552	"	—	
	13:32	6	7.12	22.1	254.5	865	"	—	

Total Discharge: 6.5 (Gallons) Liters Casing Volumes Removed: 3.25

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 3/15/06 @ 13:35 Analysis/No. of Bottles: Aviation gas, Jet fuel, BTEX, MTBE (8260). 4 VOAs w/HCl + 2 - 1 liter Ambers N/P (~~TPH Diesel + M.Oil~~) 3/20/06

QA/QC: None @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: 2 Bolts are rusted to broken in Well monument, 1 Good bolt (New 9/16") Needs new well cover assembly.

Recorded By: (Stephen Penman) / Jacki Lee Signature: [signature]

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Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MW-2 DATE 3/15/06

Project Name: Golden Gate Bus. Dist Santa Rosa Project Task: Well Development

Laboratory: NA Weather Conditions: Overcast + Cool

Well Description: 2" 3" 4" 5" 6" Other: _____ Well Type: PVC Stainless Steel Other: _____

Is Well Secured? Yes No Bolt Size _____ Type of lock / Lock number: Installed New Lock & Well Cap.

Observations / Comments: Swabbed well 10 mins prior to purging

Purge Method: Teflon/PVC Disposable Bailer Centrifugal Pump Grundfos Pump Peristaltic Pump

Pump Lines: NA New / Cleaned / Dedicated Bailer Line: NA New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: NA ~~Teflon Bailer Disp. PVC Bailer GrundFos Redi-flow Pump Peristaltic Pump~~

pH Meter Serial No.: 217254 / 330089 Spec. Cond. Meter Serial No.: 96H0203AB / AE

Date/Time Calibrated: 3/15 @ 10:30 4.0 10 @ 25°C Spec.Cond. Meter Calibration: Self Test Other: _____

Method to Measure Water Level: Solinst Serial No.: 25083 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 7.35 Water Level Prior To Sampling: NA

TD = 19.88 - 7.35 (DTW) = 12.53 (ft.of water) x "K" = 2.0 (Gals /CV) x 10 (No. of CV) = 20 (Gals.)

"K"= 0.163(2" well) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "k" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS uS	Turbidity (NTU's)	Color	Comments
3/15/06	10:42	4	6.57	21.0	169	>1000	Dk. Brown	fine sands
	10:43	6	5.87	21.5	205	>1000	"	" "
	10:44	8	5.89	22.4	231	>1000	"	" "
	10:46	10	6.16	22.6	238	>1000	"	" "
	10:48	12	6.19	23.2	255	782	"	" "
	10:50	14	6.39	22.8	265	701	"	fines are diminishing
	10:52	16	6.44	22.5	263	693	"	
	10:54	18	6.45	22.5	263	649	"	
	10:58	20	6.48	22.8	259	680	"	

Total Discharge: 20 Gallons Casing Volumes Removed: 10

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: _____

Date/Time Sampled: NA @ _____ Analysis/No. of Bottles: NA

QA/QC: NA @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled By: Jacki Lee and Stephen Penman Signature(s): [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MW-3 DATE 3/15/06

Project Name: Golden Gate Bridge District, Santa Rosa Project Contact: Susan Gahry - PES Enviromental

Laboratory: Torrent (408) 263-5258 Weather Conditions: Overcast + warm

Well Description: 2" 3" 4" 5" 6" Other _____ Well Type: PVC Stainless Steel Other: _____

Is Well Secured? Yes No Bolt Size 9/16" Type of lock / Lock number: American / 43737

Observations / Comments: Replaced 3-9/16" Bolts, 1 wellcap + Lock

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump Peristaltic Pump Fultz Pump

Pump Lines: NA New / Cleaned / Dedicated Bailer Line: NA New / Cleaned / Dedicated

Method of Cleaning Pump: NA Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: NA Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer Peristaltic Pump Other: _____

pH Meter Serial No.: 217254 / 330089 Spec. Cond. Meter Serial No.: 96H0203AB / AE

Date/Time Calibrated: 3/15 @ 10:30 4 7 10 @ 25°C Spec.Cond. Meter Calibration: Self Test Other: _____

Method to Measure Water Level: Solinst Slope Serial No.: 25083 P.I.D. Reading: NA

Water Level at Start (DTW): 6.43 @ 10:02 Water Level Prior To Sampling: 7.85 ↑

TD = 17.88 - 6.65 (DTW) = 11.23 (ft.of water) x "K" = 1.8 (Gals./CV) x 3 (No. of CV) = 5.4 (Gals.)

"K"= 0.163 (2" well) "K" = 0.653 (4" well) "K" = 1.02 (5" well) "K" = 1.46 (6" well) "k" = 2.61 (8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS uS	Turbidity (NTU's)	Color	Dissolved Oxygen (mg/L)	Comments
3/15/06	14:03	1	7.28	17.4	206.5	140	Cloudy Lt. Brn	—	
↓	14:04	2	7.27	17.3	204.7	44.8	"	—	
	14:05	3	7.24	18.0	217.5	81.6	"	—	
	14:07	4	7.20	18.0	227.1	134	"	—	
	14:09	5	7.22	18.0	219.3	147	"	—	
	14:10	6	7.1	18.0	237.2	156	"	—	

Total Discharge: 6.5 Gallons/Liters Casing Volumes Removed: 3.6

Method of disposal of discharged water: 55 Gallon Drum(s) Poly Tank Treatment System Other: _____

Date/Time Sampled: 3/15/06 @ 14:15 Analysis/No. of Bottles: TPH - Aviation gas / Jet Fuel, BTEX, MTBE (8260), 4 VOAs w/HCl + 2-1 Liter Ambers N/P ~~(TPH-D + M-OH)~~ 3/20/06

QA/QC: None @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Recorded By: Stephen Penman / Jacki Lee Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MW-3 DATE 3/15/06

Project Name: Golden Gate Bus Dist., Santa Rosa Project Task: Well Development

Laboratory: NA Weather Conditions: Overcast + Warm

Well Description: (2") 3" 4" 5" 6" Other: ____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? Yes / No Bolt Size ____ Type of lock / Lock number: Installed New lock + cap

Observations / Comments: Swabbed well 10 mins. prior to purging

Purge Method: Teflon/PVC Disposable Bailer (Centrifugal Pump) Grundfos Pump Peristaltic Pump

Pump Lines: NA (New) Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: NA ~~Teflon Bailer Disp. PVC Bailer GrundFos Redi-flow Pump Peristaltic Pump~~

pH Meter Serial No.: 217254 / (330089) Spec. Cond. Meter Serial No.: (96H0203AB) / AE

Date/Time Calibrated: 3/15 @ 10:30 (4) (7) (10) @ 25°C Spec.Cond. Meter Calibration: Self Test Other: ____

Method to Measure Water Level: Solinst Serial No.: 25083 P.I.D. Reading: NA ppm @ Well Head

Water Level at Start (DTW): 6.43 Water Level Prior To Sampling: NA

TD = 17.88 - 6.43 (DTW) = 11.45 (ft.of water) x "K" = 1.9 (Gals /CV) x 10 (No. of CV) = 19 (Gals.)

(\"K"= 0.163(2" well)) "K" = 0.653(4" well) "K" = 1.02(5" well) "K" = 1.46(6" well) "k" = 2.61(8" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Color	Comments
3/15/06	11:42	3	6.90	17.2	190.4	>1000	Gray	fines
	11:43	5	6.79	18.7	194.6	>1000	"	"
	11:44	7	6.74	19.1	206.3	>1000	"	"
	11:46	9	6.81	19.1	213.5	>1000	"	"
	11:48	11	6.68	18.7	225.7	>1000	"	"
	11:50	13	6.75	18.7	228.8	541	"	Clearing
	11:52	15	6.75	18.7	228.7	407	Lt. Gray	
	11:54	17	6.70	18.5	231.5	253	"	
	11:57	19	6.68	18.5	232.6	228	"	

Total Discharge: 19 Gallons Casing Volumes Removed: 10

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: NA @ ____ Analysis/No. of Bottles: NA

QA/QC: NA @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Sampled By: Jacki Lee and (Stephen Penman) Signature(s): [signature]

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CHAIN OF CUSTODY RECORD

PES Environmental, Inc.
Engineering & Environmental Services

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: Torrent
JOB NUMBER: 272.005.01.071
NAME / LOCATION: Golden Gate Transit Santa Rosa
PROJECT MANAGER: Susan Gahry

SAMPLERS: JP & Steve (ESS)
RECORDER: JP

DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET	ANALYSIS REQUESTED EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	TPH*
06	03	15	1335	MW-2		X			2				4				X						X
06	03	15	1415	MW-3		X			2				4				X						X
06	03	15	1450	MW-1		X			2				4				X						X

NOTES

Turn Around Time: Standard

* - TPH as aviation gas & jet fuel

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) [signature]	RECEIVED BY: (Signature) [signature]	DATE 3/16/15	TIME [illegible]
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME

METHOD OF SHIPMENT:

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

ATTACHMENT C

CSS SURVEY REPORT

CSS ENVIRONMENTAL SERVICES, INC
Managing Cost, Scope and Schedule
100 Galli Drive, Suite 1
Novato, CA 94949
Telephone: (415) 883-6203
Facsimile: (415) 883-6204

Site Positions

6360 PES Santa Rosa
3225 Industrial Dr., Santa Rosa

Horizontal Coordinate System: North American 1983-CONUS **Date:** 03/22/06
Height System: Ortho. Ht. (NAVD88 - GEOID99)
Project file: 6360 PES Golden Gate Transit.spr
Desired Horizontal Accuracy: 0.100Ft + 1ppm
Desired Vertical Accuracy: 0.100Ft + 2ppm
Confidence Level: 95% Err.
Linear Units of Measure: Int. Feet

Survey Completed: March 15, 2006

	Site ID	Site Descriptor	Position	95% Error	Fix Status	Position Status
1	MW-1	THIS IS TBM-1	Lat. 38° 28′ 15.45312″ N	0.024		Adjusted
			Lon. 122° 44′ 26.83383″ W	0.019		
		NR Elevation	Elv. 178.74			
		TOC Elevation	Elv. 178.44			
2	MW-2	THIS IS TBM-2	Lat. 38° 28′ 16.65791″ N	0.025		Adjusted
			Lon. 122° 44′ 26.86010″ W	0.019		
		NR Elevation	Elv. 178.15			
		TOC Elevation	Elv. 177.59			
3	9625	JT 9625 HPGN	Lat. 38° 27′ 54.72268″ N	0.000	Fixed	Adjusted
		Reference Monument	Lon. 122° 43′ 35.60165″ W	0.000	Fixed	
			Elv. 194.763	0.000	Fixed	
4	MW-3	NR WELL LOC	Lat. 38° 28′ 15.07882″ N	0.025		Adjusted
			Lon. 122° 44′ 25.84606″ W	0.019		
		NR Elevation	Elv. 176.23			
		TOC Elevation	Elv. 175.85			
5	9619	JT9619 HPGN	Lat. 38° 20′ 52.60527″ N	0.000	Fixed	Adjusted
		Reference Monument	Lon. 122° 42′ 51.03095″ W	0.000	Fixed	
			Elv. 148.073	0.000	Fixed	

REGISTERED PROFESSIONAL ENGINEER
AARON N. STESSMAN, P.E.
No. C 054644
Exp. 12/31/07
CIVIL
STATE OF CALIFORNIA

ATTACHMENT D

NON-HAZARDOUS WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 40701

2. Page 1 of 1

3. Generator's Name and Mailing Address
SANTA ROSA BUS FACILITY
3225 INDUSTRY DR
SANTA ROSA, CA 95403
MAIL: c/o PES Environmental, Inc
1682 Novato Blvd, Suite 100
Novato, CA 94947-7021
ATTN: SUSAN GAHRY

4. Generator's Phone (415) 899-1600

5. Transporter 1 Company Name: DILLARD ENVIRONMENTAL SVCS.
6. US EPA ID Number: CAD982523433
A. State Transporter's ID
B. Transporter 1 Phone: (925) 634-6850

7. Transporter 2 Company Name
8. US EPA ID Number
C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
INSTRAT, INC
1105 South Airport Road
RIO VISTA, CA 94571
10. US EPA ID Number
E. State Facility's ID
F. Facility's Phone (530) 753-1829

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-REGULATED WATER, (pf:)	001	TT	0250	G.
b.				
c.				
d.				

GENERATOR

RECEIVED APR 07 2006 BY

G. Additional Descriptions for Materials Listed Above
11a.
11b.
11c.
11d.

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Contact(925) 634-6850 DILLARD
Job #

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: ANGELO LEONE
Signature: Angelo Leone
Date: Month 4 Day 7 Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: PAUL RONDARIS
Signature
Date: Month 4 Day 7 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
ISI
Printed/Typed Name: P. McLoughlin
Signature
Date: Month 4 Day 7 Year 06

NON-HAZARDOUS WASTE

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ATTACHMENT E

PRIOR GROUNDWATER ELEVATION MEASUREMENTS

Table 1
Groundwater Elevation Data
Golden Gate Bridge, Highway and Transportation District
Santa Rosa Bus Facility,
Santa Rosa, California

Well ID	Top of Casing Elevation (Feet Above MSL)	Date	Depth to Water (Feet)	Groundwater Elevation (Feet Above MSL)
MW-1	128.23	12-Oct-92	9.96	118.27
		13-Oct-92	12.38	115.85
		16-Oct-92	14.35	113.88
		23-Feb-93	10.01	118.22
		02-Jun-93	7.42	120.81
		12-Nov-93	7.25	120.98
		24-May-94	6.51	121.72
		01-Jun-95	14.47	113.76
		30-Apr-98	17.00	111.23
		17-Dec-98	16.58	111.65
		10-Jun-99	18.32	109.91
		23-May-00	12.65	115.58
		25-Sep-00	18.45	109.78
		02-Apr-01	17.23	111.00
		29-Oct-01	13.67	114.56
MW-2	127.72	12-Oct-92	10.03	117.69
		13-Oct-92	12.07	115.65
		16-Oct-92	14.06	113.66
		23-Feb-93	10.00	117.72
		02-Jun-93	6.51	121.21
		12-Nov-93	6.20	121.52
		24-May-94	5.43	122.29
		01-Jun-95	12.52	115.20
		30-Apr-98	17.64	110.08
		17-Dec-98	16.74	110.98
		10-Jun-99	18.00	109.72
		23-May-00	10.40	117.32
		25-Sep-00	17.59	110.13
		02-Apr-01	16.64	111.08
		29-Oct-01	11.82	115.90
MW-3	125.93	12-Oct-92	8.41	117.52
		13-Oct-92	10.68	115.25
		16-Oct-92	13.08	112.85
		23-Feb-93	8.13	117.80
		02-Jun-93	5.13	120.80
		12-Nov-93	5.02	120.91
		24-May-94	4.33	121.60
		01-Jun-95	13.42	112.51
		30-Apr-98	15.38	110.55
		17-Dec-98	15.15	110.78
		10-Jun-99	16.87	109.06
		23-May-00	11.97	113.96
		25-Sep-00	17.51	108.42*
		02-Apr-01	16.13	109.80
		29-Oct-01	11.32	114.61

NOTES:

MSL = Mean Sea Level

* only 4 inches of water in the well, the elevation was not used for contour development.

ATTACHMENT F

LABORATORY ANALYTICAL REPORT AND COC DOCUMENTATION

TORRENT LABORATORY, INC.

483 Sinclair Frontage Rd. • Milpitas, CA 95035 • Ph: (408) 263-5258 • Fax: (408) 263-8293

www.torrentlab.com

April 06, 2006 (Revision 2)

Susan Gahry
PES Environmental, Inc
1682 Novato Blvd. STE#100
Novato, CA 94947

TEL: (415) 899-1600
FAX (415) 899-1601

RE: 272.005.01.071 Case narrative re-issued to expand comments regarding analytical procedures.
Order No.: 0603082

Dear Susan Gahry:

Torrent Laboratory, Inc. received 3 samples on 3/16/2006 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director

4/6/06
Date

Torrent Laboratory, Inc.

Date: *06-Apr-06*

CLIENT: PES Environmental, Inc
Project: 272.005.01.071
Lab Order: 0603082

CASE NARRATIVE

Although the CoC requested that only TPH as Jet Fuel be analyzed, the original report reflected values for TPH as diesel (not typical). As a result, a client request was made to employ silica gel clean up procedures on those samples (0603082-002 and 0603082-003). Silica gel clean-up resulted in ND results for the entire TPH as Diesel quantitation range.

The report was re-issued 4/5/06 with only the data for TPH as Aviation Gasoline and TPH as Jet Fuel per original CoC request. TPH as Diesel and TPH as Gasoline are reported for Method Blank, LCS and LCSD purposes only.

Reporting limmits lowered to reflect current MDL and RL limits. All associated QC re-validated to lower reporting limits. Method Blank re-validated to the MDL.

Rev 2

TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-2
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 1:35:00 PM

Lab Sample ID: 0603082-001
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Jet Fuel)	SW8015B	3/16/2006	0.1	1	0.106	ND	mg/L	R8915
Surr: Pentacosane	SW8015B	3/16/2006	0	1	53.3-124	62.0	%REC	R8915
Note: Reporting limit increased due to limited sample volume								
TPH (Aviation Gas)	SW8015B	3/21/2006	0.05	1	0.0500	ND	mg/L	R8957
Surr: Trifluorotoluene	SW8015B	3/21/2006	0	1	65-135	83.9	%REC	R8957

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-2
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 1:35:00 PM

Lab Sample ID: 0603082-001
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1,1-Trichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1,2,2-Tetrachloroethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1,2-Trichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1-Dichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1-Dichloroethene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2,3-Trichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2,3-Trichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2,4-Trichlorobenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2,4-Trimethylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2-Dibromo-3-chloropropane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dibromoethane (EDB)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dichloroethane (EDC)	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dichloropropane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,3,5-Trimethylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,3-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,3-Dichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,4-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
2,2-Dichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
2-Chloroethyl vinyl ether	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
2-Chlorotoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
4-Chlorotoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
4-Isopropyltoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Benzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Bromobenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromochloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromodichloromethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Bromoform	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromomethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Carbon tetrachloride	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Chlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Chloroform	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Chloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
cis-1,2-Dichloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
cis-1,3-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Dibromochloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Dibromomethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Dichlorodifluoromethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Ethyl tert-butyl ether (ETBE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Ethylbenzene	SW8260B	3/17/2006	0.5	1	0.50	0.87	µg/L	R8936
Freon-113	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-2
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 1:35:00 PM

Lab Sample ID: 0603082-001
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexachlorobutadiene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Isopropyl ether (IPE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Isopropylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Methyl tert-butyl ether (MTBE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Methylene chloride	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Naphthalene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
n-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
n-Propylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
sec-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Styrene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
t-Butyl alcohol (t-Butanol)	SW8260B	3/17/2006	5	1	5.00	ND	µg/L	R8936
tert-Amyl methyl ether (TAME)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
tert-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Tetrachloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Toluene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
trans-1,2-Dichloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
trans-1,3-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Trichloroethene	SW8260B	3/17/2006	0.5	1	0.50	1.76	µg/L	R8936
Trichlorofluoromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Vinyl chloride	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Xylenes, Total	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Surr: Dibromofluoromethane	SW8260B	3/17/2006	0	1	61.2-131	81.6	%REC	R8936
Surr: 4-Bromofluorobenzene	SW8260B	3/17/2006	0	1	64.1-125	93.4	%REC	R8936
Surr: Toluene-d8	SW8260B	3/17/2006	0	1	75.1-127	96.0	%REC	R8936

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-3
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 2:15:00 PM

Lab Sample ID: 0603082-002
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Jet Fuel)	SW8015B	3/30/2006	0.1	1	0.100	ND	mg/L	R9043
Surr: Pentacosane	SW8015B	3/30/2006	0	1	40-120	55.0	%REC	R9043
Silica Gel clean up procedures employed per client request								
TPH (Aviation Gas)	SW8015B	3/21/2006	0.05	1	0.0500	ND	mg/L	R8957
Surr: Trifluorotoluene	SW8015B	3/21/2006	0	1	65-135	87.4	%REC	R8957

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-3
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 2:15:00 PM

Lab Sample ID: 0603082-002
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1,1-Trichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1,2,2-Tetrachloroethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1,2-Trichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1-Dichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1-Dichloroethene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2,3-Trichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2,3-Trichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2,4-Trichlorobenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2,4-Trimethylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2-Dibromo-3-chloropropane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dibromoethane (EDB)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dichloroethane (EDC)	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dichloropropane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,3,5-Trimethylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,3-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,3-Dichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,4-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
2,2-Dichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
2-Chloroethyl vinyl ether	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
2-Chlorotoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
4-Chlorotoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
4-Isopropyltoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Benzene	SW8260B	3/17/2006	0.5	1	0.50	7.39	µg/L	R8936
Bromobenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromochloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromodichloromethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Bromoform	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromomethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Carbon tetrachloride	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Chlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Chloroform	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Chloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
cis-1,2-Dichloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
cis-1,3-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Dibromochloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Dibromomethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Dichlorodifluoromethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Ethyl tert-butyl ether (ETBE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Ethylbenzene	SW8260B	3/17/2006	0.5	1	0.50	0.63	µg/L	R8936
Freon-113	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-3
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 2:15:00 PM

Lab Sample ID: 0603082-002
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexachlorobutadiene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Isopropyl ether (IPE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Isopropylbenzene	SW8260B	3/17/2006	1	1	1.00	1.91	µg/L	R8936
Methyl tert-butyl ether (MTBE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Methylene chloride	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Naphthalene	SW8260B	3/17/2006	1	1	1.00	4.76	µg/L	R8936
n-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
n-Propylbenzene	SW8260B	3/17/2006	1	1	1.00	1.07	µg/L	R8936
sec-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Styrene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
t-Butyl alcohol (t-Butanol)	SW8260B	3/17/2006	5	1	5.00	ND	µg/L	R8936
tert-Amyl methyl ether (TAME)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
tert-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Tetrachloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Toluene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
trans-1,2-Dichloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
trans-1,3-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Trichloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Trichlorofluoromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Vinyl chloride	SW8260B	3/17/2006	0.5	1	0.50	1.95	µg/L	R8936
Xylenes, Total	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Surr: Dibromofluoromethane	SW8260B	3/17/2006	0	1	61.2-131	75.9	%REC	R8936
Surr: 4-Bromofluorobenzene	SW8260B	3/17/2006	0	1	64.1-125	90.3	%REC	R8936
Surr: Toluene-d8	SW8260B	3/17/2006	0	1	75.1-127	103	%REC	R8936

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-1
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 2:50:00 PM

Lab Sample ID: 0603082-003
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Jet Fuel)	SW8015B	3/30/2006	0.1	1	0.100	ND	mg/L	R9043
Surr: Pentacosane	SW8015B	3/30/2006	0	1	40-120	59.0	%REC	R9043
Silica Gel clean up procedures employed per client request								
TPH (Aviation Gas)	SW8015B	3/21/2006	0.05	1	0.0500	ND	mg/L	R8957
Surr: Trifluorotoluene	SW8015B	3/21/2006	0	1	65-135	92.3	%REC	R8957

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-1
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 2:50:00 PM

Lab Sample ID: 0603082-003
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1,1,2-Tetrachloroethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1,1-Trichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1,2,2-Tetrachloroethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1,2-Trichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1-Dichloroethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,1-Dichloroethene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,1-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2,3-Trichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2,3-Trichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2,4-Trichlorobenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2,4-Trimethylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2-Dibromo-3-chloropropane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dibromoethane (EDB)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,2-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dichloroethane (EDC)	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,2-Dichloropropane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,3,5-Trimethylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,3-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
1,3-Dichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
1,4-Dichlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
2,2-Dichloropropane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
2-Chloroethyl vinyl ether	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
2-Chlorotoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
4-Chlorotoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
4-Isopropyltoluene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Benzene	SW8260B	3/17/2006	0.5	1	0.50	7.40	µg/L	R8936
Bromobenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromochloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromodichloromethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Bromoform	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Bromomethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Carbon tetrachloride	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Chlorobenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Chloroform	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Chloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
cis-1,2-Dichloroethene	SW8260B	3/17/2006	0.5	1	0.50	18.4	µg/L	R8936
cis-1,3-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Dibromochloromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Dibromomethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Dichlorodifluoromethane	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Ethyl tert-butyl ether (ETBE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Ethylbenzene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Freon-113	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Susan Gahry
PES Environmental, Inc

Date Received: 3/16/2006
Date Reported: 3/22/2006

Client Sample ID: MW-1
Sample Location: Golden Gate Transit Santa Rosa
Sample Matrix: WATER
Date/Time Sampled 3/15/2006 2:50:00 PM

Lab Sample ID: 0603082-003
Date Prepared: 3/17/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexachlorobutadiene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Isopropyl ether (IPE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Isopropylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Methyl tert-butyl ether (MTBE)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Methylene chloride	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Naphthalene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
n-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
n-Propylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
sec-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Styrene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
t-Butyl alcohol (t-Butanol)	SW8260B	3/17/2006	5	1	5.00	ND	µg/L	R8936
tert-Amyl methyl ether (TAME)	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
tert-Butylbenzene	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Tetrachloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Toluene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
trans-1,2-Dichloroethene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
trans-1,3-Dichloropropene	SW8260B	3/17/2006	0.5	1	0.50	ND	µg/L	R8936
Trichloroethene	SW8260B	3/17/2006	0.5	1	0.50	4.41	µg/L	R8936
Trichlorofluoromethane	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Vinyl chloride	SW8260B	3/17/2006	0.5	1	0.50	7.27	µg/L	R8936
Xylenes, Total	SW8260B	3/17/2006	1	1	1.00	ND	µg/L	R8936
Surr: Dibromofluoromethane	SW8260B	3/17/2006	0	1	61.2-131	80.7	%REC	R8936
Surr: 4-Bromofluorobenzene	SW8260B	3/17/2006	0	1	64.1-125	93.1	%REC	R8936
Surr: Toluene-d8	SW8260B	3/17/2006	0	1	75.1-127	99.9	%REC	R8936

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Torrent Laboratory, Inc.

Date: *06-Apr-06*

CLIENT: PES Environmental, Inc
Work Order: 0603082
Project: 272.005.01.071

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **mb** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **3/17/2006** RunNo: **8936**
Client ID: **ZZZZZ** Batch ID: **R8936** TestNo: **SW8260B** Analysis Date: **3/17/2006** SeqNo: **133748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,1-Trichloroethane	ND	0.500									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloroethane	ND	0.500									
1,1-Dichloroethane	ND	0.500									
1,1-Dichloroethene	ND	1.00									
1,1-Dichloropropene	ND	0.500									
1,2,3-Trichlorobenzene	ND	0.500									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	1.00									
1,2,4-Trimethylbenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	1.00									
1,2-Dichlorobenzene	ND	0.500									
1,2-Dichloroethane (EDC)	ND	0.500									
1,2-Dichloropropane	ND	0.500									
1,3,5-Trimethylbenzene	ND	1.00									
1,3-Dichlorobenzene	ND	0.500									
1,3-Dichloropropane	ND	1.00									
1,4-Dichlorobenzene	ND	0.500									
2,2-Dichloropropane	ND	1.00									
2-Chloroethyl vinyl ether	ND	1.00									
2-Chlorotoluene	ND	1.00									
4-Chlorotoluene	ND	1.00									
4-Isopropyltoluene	ND	1.00									
Benzene	ND	0.500									
Bromobenzene	ND	1.00									
Bromochloromethane	ND	1.00									
Bromodichloromethane	ND	0.500									

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: PES Environmental, Inc
Work Order: 0603082
Project: 272.005.01.071

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **mb**	SampType: **MBLK**	TestCode: **8260B_W**	Units: **µg/L**	Prep Date: **3/17/2006**	RunNo: **8936**
Client ID: **ZZZZZ**	Batch ID: **R8936**	TestNo: **SW8260B**		Analysis Date: **3/17/2006**	SeqNo: **133748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon tetrachloride	ND	0.500									
Chlorobenzene	ND	0.500									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,2-Dichloroethene	ND	0.500									
cis-1,3-Dichloropropene	ND	0.500									
Dibromochloromethane	ND	1.00									
Dibromomethane	ND	1.00									
Dichlorodifluoromethane	ND	0.500									
Ethyl tert-butyl ether (ETBE)	ND	1.00									
Ethylbenzene	ND	0.500									
Freon-113	ND	1.00									
Hexachlorobutadiene	ND	0.500									
Isopropylbenzene	ND	1.00									
Methyl tert-butyl ether (MTBE)	ND	1.00									
Methylene chloride	ND	1.00									
Naphthalene	ND	1.00									
n-Butylbenzene	ND	1.00									
n-Propylbenzene	ND	1.00									
sec-Butylbenzene	ND	1.00									
Styrene	ND	1.00									
t-Butyl alcohol (t-Butanol)	ND	5.00									
tert-Amyl methyl ether (TAME)	ND	1.00									
tert-Butylbenzene	ND	1.00									
Tetrachloroethene	ND	0.500									
Toluene	ND	0.500									
trans-1,2-Dichloroethene	ND	0.500									
trans-1,3-Dichloropropene	ND	0.500									
Trichloroethene	ND	0.500									

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: PES Environmental, Inc
Work Order: 0603082
Project: 272.005.01.071

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **mb** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **3/17/2006** RunNo: **8936**
Client ID: **ZZZZZ** Batch ID: **R8936** TestNo: **SW8260B** Analysis Date: **3/17/2006** SeqNo: **133748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	0.500									
Xylenes, Total	ND	1.00									
Surr: Dibromofluoromethane	10.28	0	11.9	0	86.4	61.2	131				
Surr: 4-Bromofluorobenzene	10.55	0	11.9	0	88.7	64.1	125				
Surr: Toluene-d8	11.38	0	11.9	0	95.6	75.1	127				

Sample ID: **lcs** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **3/17/2006** RunNo: **8936**
Client ID: **ZZZZZ** Batch ID: **R8936** TestNo: **SW8260B** Analysis Date: **3/17/2006** SeqNo: **133749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.29	1.00	17.86	0	91.2	61.4	129				
Benzene	15.17	0.500	17.86	0	84.9	66.9	140				
Chlorobenzene	19.91	0.500	17.86	0	111	73.9	137				
Toluene	18.11	0.500	17.86	0	101	76.6	123				
Trichloroethene	16.22	0.500	17.86	0	90.8	69.3	144				
Surr: Dibromofluoromethane	12.31	0	11.9	0	103	61.2	131				
Surr: 4-Bromofluorobenzene	10.13	0	11.9	0	85.1	64.1	125				
Surr: Toluene-d8	12.05	0	11.9	0	101	75.1	127				

Sample ID: **lcsd** SampType: **LCSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **3/17/2006** RunNo: **8936**
Client ID: **ZZZZZ** Batch ID: **R8936** TestNo: **SW8260B** Analysis Date: **3/17/2006** SeqNo: **133750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.12	1.00	17.86	0	79.1	61.4	129	16.29	14.3	20	
Benzene	13.67	0.500	17.86	0	76.5	66.9	140	15.17	10.4	20	
Chlorobenzene	21.71	0.500	17.86	0	122	73.9	137	19.91	8.65	20	
Toluene	19.13	0.500	17.86	0	107	76.6	123	18.11	5.48	20	
Trichloroethene	17.23	0.500	17.86	0	96.5	69.3	144	16.22	6.04	20	
Surr: Dibromofluoromethane	10.30	0	11.9	0	86.6	61.2	131	0	0	0	

Qualifiers:
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: PES Environmental, Inc
Work Order: 0603082
Project: 272.005.01.071

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **lcsd**	SampType: **LCSD**	TestCode: **8260B_W**	Units: **µg/L**	Prep Date: **3/17/2006**	RunNo: **8936**
Client ID: **ZZZZZ**	Batch ID: **R8936**	TestNo: **SW8260B**		Analysis Date: **3/17/2006**	SeqNo: **133750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10.24	0	11.9	0	86.1	64.1	125	0	0	0	
Surr: Toluene-d8	12.05	0	11.9	0	101	75.1	127	0	0	0	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: PES Environmental, Inc
Work Order: 0603082
Project: 272.005.01.071

ANALYTICAL QC SUMMARY REPORT

TestCode: TPHDOKJ_W

Sample ID: **MB-R8915** SampType: **MBLK** TestCode: **TPHDOKJ_W** Units: **mg/L** Prep Date: **3/16/2006** RunNo: **8915**
Client ID: **ZZZZZ** Batch ID: **R8915** TestNo: **SW8015B** Analysis Date: **3/16/2006** SeqNo: **135377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Jet Fuel)	ND	0									
Surr: Pentacosane	0.05600	0	0.1	0	56.0	53.3	124				

Sample ID: **LCS** SampType: **LCS** TestCode: **TPHDOKJ_W** Units: **mg/L** Prep Date: **3/16/2006** RunNo: **8915**
Client ID: **ZZZZZ** Batch ID: **R8915** TestNo: **SW8015B** Analysis Date: **3/16/2006** SeqNo: **135408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Pentacosane	0.05600	0	0.1	0	56.0	53.3	124				

Sample ID: **LCSD** SampType: **LCSD** TestCode: **TPHDOKJ_W** Units: **mg/L** Prep Date: **3/16/2006** RunNo: **8915**
Client ID: **ZZZZZ** Batch ID: **R8915** TestNo: **SW8015B** Analysis Date: **3/16/2006** SeqNo: **135409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Pentacosane	0.06900	0	0.1	0	69.0	53.3	124	0	0	0	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: PES Environmental, Inc
Work Order: 0603082
Project: 272.005.01.071

ANALYTICAL QC SUMMARY REPORT

TestCode: TPHDOKJSG_W

Sample ID: **MBLK2**	SampType: **MBLK**	TestCode: **TPHDOKJSG**	Units: **mg/L**	Prep Date: **3/16/2006**	RunNo: **9043**
Client ID: **ZZZZZ**	Batch ID: **R9043**	TestNo: **SW8015B**		Analysis Date: **3/30/2006**	SeqNo: **135379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Jet Fuel)	ND	0.100									
Surr: Pentacosane	0.06000	0	0.1	0	60.0	40	120				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: PES Environmental, Inc
Work Order: 0603082
Project: 272.005.01.071

ANALYTICAL QC SUMMARY REPORT

TestCode: TPHGasAv_W

Sample ID: **MBLK1** SampType: **MBLK** TestCode: **TPHGasAv_** Units: **mg/L** Prep Date: RunNo: **8957**
Client ID: **ZZZZZ** Batch ID: **R8957** TestNo: **SW8015B** Analysis Date: **3/21/2006** SeqNo: **135402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Aviation Gas)	ND	0.0500									
Surr: Trifluorotoluene	0.1063	0	0.119	0	89.3	65	135				

Sample ID: **LCS** SampType: **LCS** TestCode: **TPHGasAv_** Units: **mg/L** Prep Date: RunNo: **8957**
Client ID: **ZZZZZ** Batch ID: **R8957** TestNo: **SW8015B** Analysis Date: **3/21/2006** SeqNo: **135406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Trifluorotoluene	0.1053	0	0.119	0	88.5	65	135				

Sample ID: **LCSD** SampType: **LCSD** TestCode: **TPHGasAv_** Units: **mg/L** Prep Date: RunNo: **8957**
Client ID: **ZZZZZ** Batch ID: **R8957** TestNo: **SW8015B** Analysis Date: **3/21/2006** SeqNo: **135407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Trifluorotoluene	0.1080	0	0.119	0	90.8	65	135	0	0	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: Torrent

JOB NUMBER: 272.005.01.071

NAME / LOCATION: Golden Gate Transit Santa Rosa

PROJECT MANAGER: Susan Gahry

SAMPLERS: JP & Steve (ESS)

RECORDER: JP

DATE YR	DATE MO	DATE DY	DATE TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	MATRIX Water	MATRIX Soil	MATRIX Sedim't	# of Containers & Preservatives: Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET	EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	TPH*	0603082
06	03	15	1335	MW-2		X			2				4				X						X	001A
06	03	15	1415	MW-3		X			2				4				X						X	002A
06	03	15	1450	MW-1		X			2				4				X						X	003A

NOTES

Turn Around Time: Standard

* - TPH as aviation gas & jet fuel

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
[signature]	[signature]	3-16-06	10:47
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME

METHOD OF SHIPMENT:

Aml 3/16/06

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

NAC 3/16/06