August 11, 2006

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Groundwater Monitoring Report - Second Quarter 2006**
Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California
ACHCSA Case No. 304

Dear Mr.Chan:

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. has prepared this *Groundwater Monitoring Report – Second Quarter 2006*. The report describes groundwater monitoring, sampling, and other site activities.

Sincerely,
Pangea Environmental Services, Inc.

Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring Report –Second Quarter 2006*

cc: Mr. Hooshang Hadjian, 2108 San Ramon Valley Blvd, San Ramon, CA 94583
cc: Mr. Jim Lange, 6500 Dublin Blvd., Suite 202, Dublin, CA 94568

GROUNDWATER MONITORING REPORT – SECOND QUARTER 2006

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

August 11, 2006

Prepared for:

Mr. Hooshang Hadjian
2108 San Ramon Valley Blvd
San Ramon, CA 94583

Prepared by:

Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200
Oakland, California 94612

Written by:

Morgan Gillies
Project Manager

Bob Clark-Riddell, P.E.
Principal Engineer

Groundwater Monitoring Report – Second Quarter 2006
7240 Dublin Boulevard
Dublin, California
August 11, 2006

INTRODUCTION

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. (Pangea) conducted groundwater monitoring and sampling activities during this quarter at the subject site (Figure 1). The purpose of the monitoring and sampling is to evaluate groundwater flow direction and dissolved contaminant concentrations, and to inspect site wells for separate-phase hydrocarbons (SPH). Current groundwater analytical results and elevation data are shown on Figure 2. Current and historical data are summarized on Table 1.

SITE BACKGROUND

The Dublin Auto Wash retail gasoline station is located at the southwest corner of Dublin Boulevard and Village Parkway in Dublin, California (Figure 1). Currently, there are three 10,000-gallon underground storage tanks (USTs) and a carwash at the site. Land use immediately surrounding the station is commercial with residential land use further from the site.

From approximately 1988 to 1997, Chevron Products Company performed assessment and remediation of the site. A soil vapor extraction (SVE) system was operated at the site from December 1992 through June 1995. Mr. Hadjian is the responsible party for an unauthorized release from a leaking stainless steel flex hose near the northernmost dispenser island in February 1997. Subsequently, a new product delivery system was installed and about 31 cubic yards of contaminated soil was removed from the release area. Gettler-Ryan, Inc. monitored the eight existing groundwater wells at the site until 2003, when SOMA Environmental Engineering, Inc. took over groundwater monitoring at the site. SOMA conducted further characterization of the site using electrical conductivity sensors and identified potential water-bearing zones. In November 2004, Pangea commenced coordination of groundwater monitoring and corrective action for the site. In order to delineate the contamination detected during SOMA's 2003 investigation Pangea proposed installing additional monitoring wells with shorter screen lengths in identified water-bearing zones.

In March, April and May, 2006, Pangea installed fourteen monitoring wells to help define the vertical and lateral extent of groundwater contamination in the identified water-bearing zones. Wells with shorter screen lengths were installed in the upper shallow (AA) zone from approximately 9 to 14 ft bgs (MW-7AA), the shallow (A) zone from approximately 15 to 20 ft bgs (MW-3A, MW-6A, MW-7A, MW-8A, MW-9A and MW-10A), the middle (B) zone from approximately 25 to 30 ft bgs (MW-6B and MW-7B), and the deep (C) zone from approximately 34 to 45 ft bgs (MW-6C, MW-7C, MW-9C, MW-10C and MW-11C). Well MW-3A screen is more shallow then the other A zone wells to intercept the SPH previously observed in abandoned well MW-3. The shallower water-bearing zones primarily consist of thin seams of clayey sand, with higher permeability silty sand and clayey sand in the deeper C water-bearing zone. Vapor wells VW-1 through VW-3 are screened from approximately 3 to 9 ft bgs in the upper shallow seasonal water bearing zone. In late

March and early April 2006 wells EA-1, EA-2, EA-3 and MW-3 were abandoned to reduce the risk of vertical contaminant migration and improve the quality of monitoring data. Well construction details are presented in Table 2.

GROUNDWATER MONITORING AND SAMPLING

On May 29, May 31, and June 1, 2006, groundwater monitoring and sampling was conducted at the site. Site monitoring wells were initially gauged for depth to water and inspected for SPH on May 29. Groundwater samples were obtained from fifteen (MW-1, MW-2, MW-6A, MW-6B, MW-6C, MW-7AA, MW-7A, MW-7B, MW-7C, MW-8A, MW-9A, MW-9C, MW-10A, MW-10C and MW-11C) of the eighteen groundwater monitoring wells and three vapor wells (VW-1 through VW-3). Sampling of the three vapor wells was requested by the February 9, 2006 letter from Alameda County Environmental Health (ACEH). Monitoring wells MW-4 and MW-5 are sampled annually during the first quarter, and well MW-3A was not sampled due to the presence of SPH. During vacuum truck interim remediation on July 7, 2006, no measurable SPH was detected in well MW-3A, and the well was sampled with a disposable bailer after removing approximately 50 gallons of groundwater by vacuum truck extraction.

Before well purging, the dissolved oxygen (DO) concentration was measured in each well. DO was measured by lowering a downwell sensor to the approximate middle of the water column, and allowing the reading to stabilize during gentle height adjustment. Prior to sample collection, approximately three casing volumes of water were purged using disposable bailers, an electric submersible pump, positive air displacement pump, or a peristaltic pump. During well purging, field technicians measured the pH, temperature and conductivity. Vapor wells VW-1 through VW-3 dewatered during purging and were sampled the next morning. Groundwater samples were collected from each well with a disposable bailer, and decanted into the appropriate containers supplied by the analytical laboratory. Groundwater samples were labeled, placed in protective plastic bags, and stored on crushed ice at or below 4° C. All samples were transported under chain-of-custody to the State-certified analytical laboratory. Purge water was temporarily stored onsite in a 2,400-gallon water storage tank. Groundwater monitoring field data sheets are presented in Appendix A.

MONITORING RESULTS

Current and historical groundwater elevation data and analytical results are described below and summarized on Table 1. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015C, and benzene, toluene, ethylene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. If MTBE was detected by the laboratory, a confirmation analysis was conducted by EPA Method 8260B. Samples were analyzed by McCampbell Analytical, Inc. of Pacheco,

California, a State-certified laboratory. The laboratory analytical report is included in Appendix B. DO concentrations ranged from 0.11 mg/L (well VW-1) to 0.73 mg/L (well MW-6A).

Consistent with the February 9, 2006 letter from ACEH, Pangea analyzed groundwater samples this quarter for fuel oxygenates by EPA Method 8260B when MTBE was detected by EPA Method 8021B. The analyzed oxygenates were tert-butyl alcohol (TBA), diisopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and tert-amyl methyl ether (TAME).

Groundwater Flow Direction

The inferred groundwater flow direction based on depth-to-water data collected July 7, 2006 is shown on Figures 2 and 3. Groundwater in the shallow (A) zone, defined by monitoring wells MW-1, MW-2, MW-3A, MW-4, MW-5, MW-6A, MW-7A, MW-8A, MW-9A and MW-10A, appears to be moving from offsite well MW-4 in a south-southwest direction, turning toward the south as it leaves the site (Figure 2). The groundwater elevation in well MW-3A may be affected by the more permeable backfill around the sanitary sewer line beneath Dublin Boulevard. In the deep zone (C), defined by monitoring wells MW-6C, MW-7C, MW-9C, MW-10C, and MW-11C, groundwater appears to flow towards the west (Figure 3). Comparison of groundwater elevation data from A zone and C zone wells suggest an upward vertical hydraulic gradient. Note that due to anomalous groundwater levels measured in newly installed wells MW-9C and MW-10A, Pangea conducted an additional groundwater gauging event on July 7, 2006. Pangea suspects that these wells had not fully recovered after well development a few days earlier.

Hydrocarbon Distribution in Groundwater

Separate-phase hydrocarbons were measured in well MW-3A at a thickness of 0.03 ft on May 29, 2006, while no measurable SPH were detected on July 7, 2006. Petroleum hydrocarbons were detected in eight of the eighteen sampled wells (MW-6A, MW-7AA, MW-7A, MW-7B, MW-10A, VW-1, VW-2 and VW-3), as shown on Table 1 and Figures 2 and 3. Well MW-7AA had the highest TPHg (12,000 µg/L) and benzene (1,000 µg/L) concentration for all site groundwater wells. The highest TPHg (5,900 µg/L) and benzene (230 µg/L) concentrations in vapor wells were detected in VW-3. Vapor wells VW-1 and VW-2 also showed elevated concentrations of TPHg (1,100 µg/L and 1,500 µg/L, respectively) and benzene (92 µg/L and 140 µg/L, respectively).

In general, hydrocarbon contamination is concentrated in the upper shallow (AA) and shallow (A) water-bearing zones. No petroleum hydrocarbons were detected above reporting limits for any of the middle (B) zone or deep (C) zone groundwater wells, except for low concentrations of benzene (0.79 µg/L) and xylenes (0.75 µg/L) in well MW-7B. These results suggest that the focus of future remediation should be in the upper shallow (AA) and shallow (A) water-bearing zones, near the dispenser islands. The hydrocarbon

concentrations in groundwater from the vapor wells suggest that they may be useful as remediation wells in the future.

Fuel Oxygenate Distribution in Groundwater

MTBE was detected by EPA Method 8021 above reporting limits in twelve of the sixteen groundwater wells and in vapor wells VW-1 and VW-2. As confirmed by EPA Method 8260B, the four highest concentrations of MTBE were in wells MW-3A (32,000 µg/L), MW-7AA (21,000 µg/L), MW-1 (6,300 µg/L), and MW-6A (5,300 µg/L) (Table 1 and Figure 2). The MTBE concentrations in well MW-1 represent an apparent increasing trend. Pangea analyzed groundwater samples for fuel oxygenates by EPA Method 8260B when MTBE was detected by EPA Method 8021B. The only fuel oxygenate concentration detected besides MTBE was 12 µg/L TAME in vapor well VW-1 (Table 1).

OTHER SITE ACTIVITIES

Soil and Water Investigation Workplan

As required by the February 9, 2006 letter from the ACEH, Pangea has implemented the *Soil and Water Investigation Workplan* (Workplan) dated February 20, 2005 and *Workplan Addendum* dated January 20, 2006. Pangea has conducted one half day of interim remediation using a vacuum truck at the site, as outlined in the workplan. The results of the well installation, soil borings and interim remediation will be presented in an upcoming *Site Assessment Report*.

Upcoming Monitoring and Proposed Frequency

Pangea will continue quarterly groundwater monitoring and sampling at the site. In accordance with the sampling frequency proposed in prior monitoring reports, Pangea will sample all site groundwater monitoring wells quarterly, except MW-4 and MW-5 which will be sampled annually during the first quarter. To evaluate shallowest conditions at the site, Pangea also plans to gauge vapor wells VW-1 through VW-3 and to sample these wells if they contain sufficient water. All wells will be gauged for depth to water and inspected for SPH. All groundwater samples will be analyzed for TPHg/BTEX/MTBE by EPA Method 8015Cm/8021B. Pangea will summarize groundwater monitoring activities and results in a groundwater monitoring report.

To help control costs, Pangea recommends discontinuing analysis of groundwater samples for fuel oxygenates by EPA Method 8260B. The only fuel oxygenate detected other than MTBE was tert-amyl methyl ether (12 µg/L) in vapor well VW-1. Detection limits for fuel oxygenates (besides MTBE) were relatively high due to elevated concentrations of MTBE. Confirmation of MTBE by 8260B does not appear merited since method

8021B has consistently yielded similar results to method 8260B. Future analysis of groundwater by EPA Method 8260B may be warranted after MTBE concentrations have been reduced, or on an annual basis.

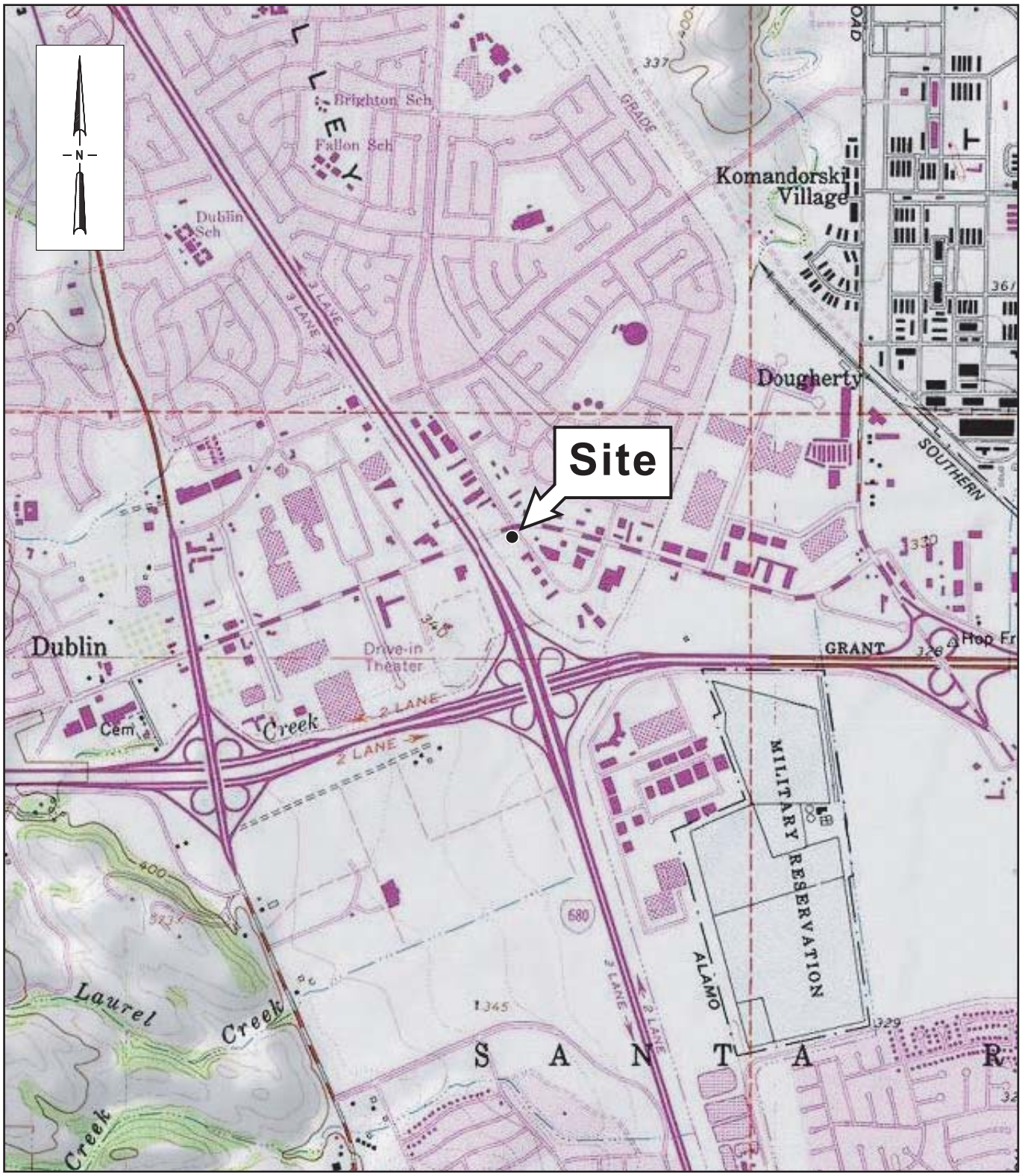
ATTACHMENTS

Figure 1 – Vicinity Map
Figure 2 – Groundwater Elevation Contour and Hydrocarbon Concentration Map – Shallow
Figure 3 – Groundwater Elevation Contour and Hydrocarbon Concentration Map – Deep

Table 1 – Groundwater Elevation and Analytical Data
Table 2 – Well Construction Details

Appendix A – Groundwater Monitoring Field Data Sheets
Appendix B – Laboratory Analytical Report

5/1/2005



SOURCE: TOPO! MAPS

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Figure
1

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

PANGEA

Site Location Map

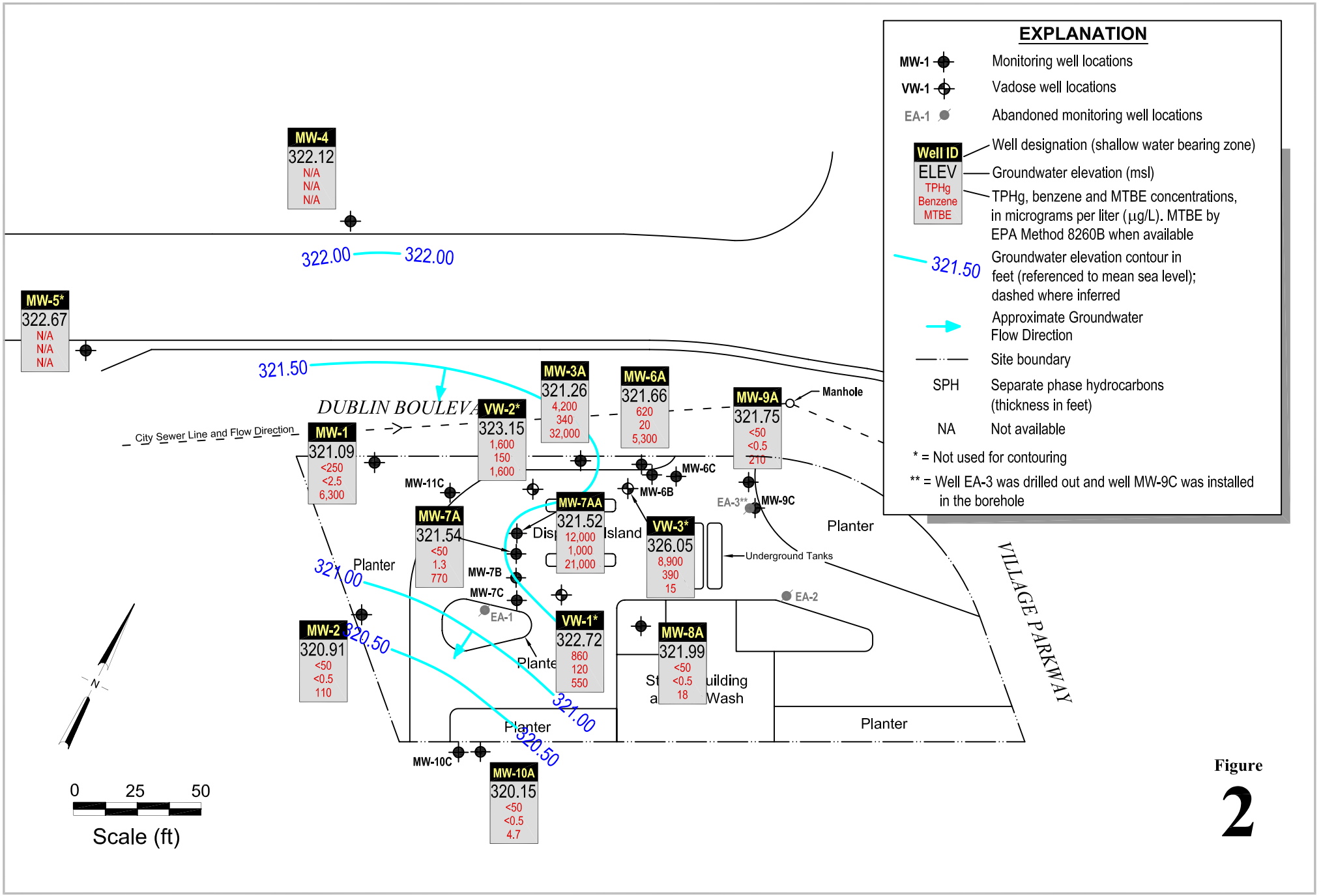


Figure 2

7/31/2006

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

PANGEA

Groundwater Elevation and Hydrocarbon Concentration Map (Shallow)
July 7, 2006

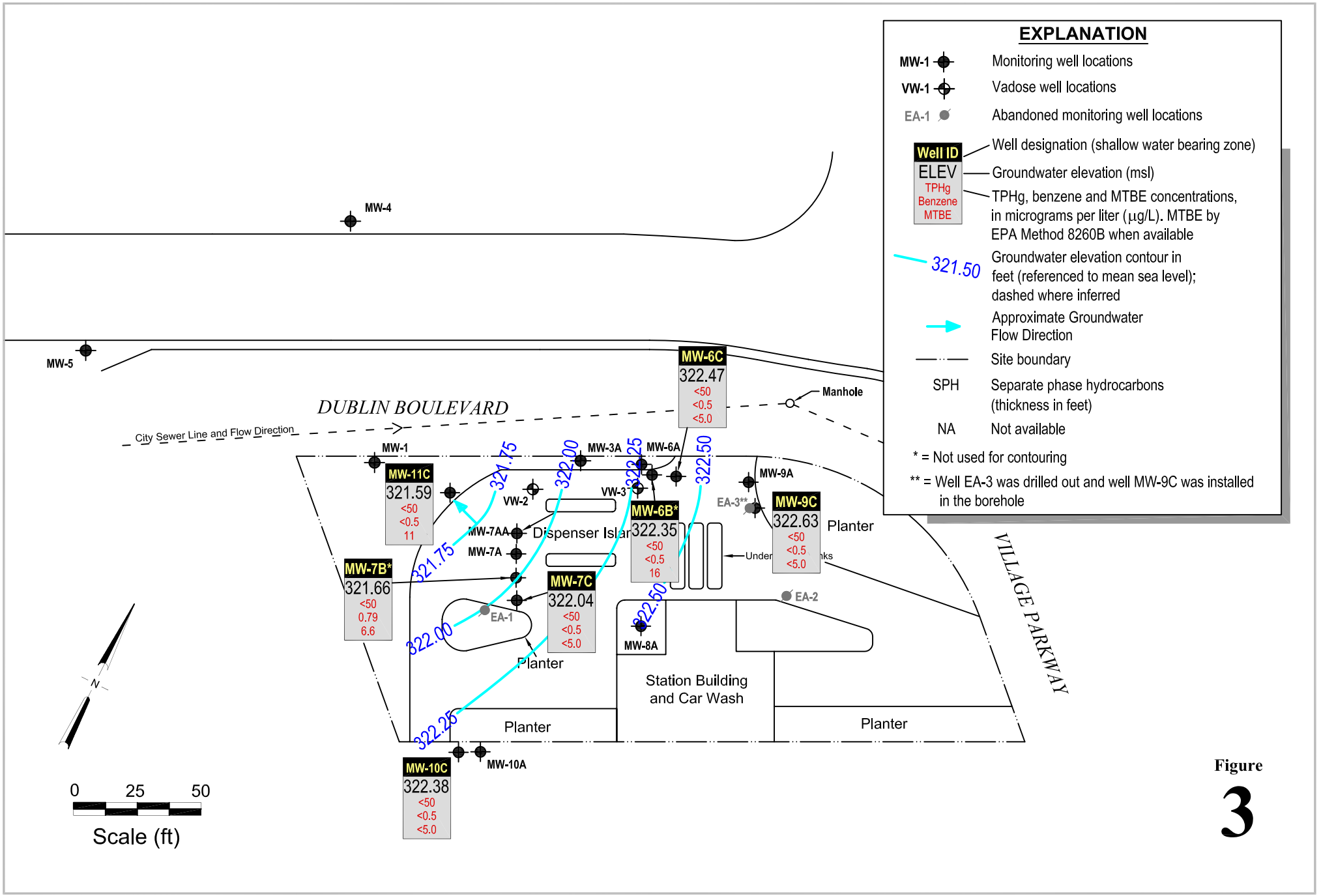


Figure 3

7/31/2006

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

PANGEA

Groundwater Elevation and Hydrocarbon Concentration Map (Deep)
July 7, 2006

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
EA-1 (Cont'd)	05/08/03	8.23	322.98	1,700	11	0.97	63	161	<2.0		
	12/15/04	--	--	--	--	--	--	--	--		Inaccessible
	02/21/05	--	--	--	--	--	--	--	--		Inaccessible
	05/17/05	--	--	--	--	--	--	--	--		Inaccessible
	08/17/05	--	--	--	--	--	--	--	--		Inaccessible
	11/27/05	--	--	--	--	--	--	--	--		Inaccessible
	02/21/06	--	--	--	--	--	--	--	--		Inaccessible
	03/31/06	--	--	--	--	--	--	--	--		**Well Abandoned**
EA-2	10/17/88	--	--	<50	<0.5	<0.5	<0.5	1.2	--		
330.41	10/24/88	9.7	322.89	--	--	--	--	--	--		
	11/02/88	10.03	322.56	--	--	--	--	--	--		
	12/20/88	9.98	322.61	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/28/89	8.8	323.79	<250	<2	<0.5	<0.5	<0.5	--		
	08/02/89	9.44	323.15	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	9.53	323.06	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	9.27	323.32	<50	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	9.35	323.24	<50	0.6	0.8	<0.5	2	--		
	08/01/90	9.71	322.88	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/24/90	10.08	322.51	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	--		Duplicate
	08/21/91	9.8	322.79	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/07/91	9.98	322.61	--	--	--	--	--	--		
	01/28/92	9.81	322.78	<50	0.8	<0.5	<0.5	<0.5	--		
	06/05/92	9.86	322.73	<50	<0.5	<0.5	<0.5	<0.5	--		
	09/30/92	10.6	321.99	66	1	3.2	1.3	7.4	--		
	12/30/92	9.11	323.48	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/29/93	7.73	324.86	<50	<0.5	<0.5	<0.5	<1.5	--		
	06/25/93	9.22	323.37	<50	<0.5	<0.5	<0.5	<1.5	--		
	09/16/93	10	322.59	<50	<0.5	<0.5	<0.5	<1.5	--		
	12/20/93	9.38	323.21	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/29/94	9.3	323.29	<50	<0.5	0.6	<0.5	<0.5	--		
	06/22/94	9.49	323.1	<50	<0.5	<0.5	<0.5	<0.5	--		
	09/26/94	9.72	322.87	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/04/94	9.58	323.01	<50	<0.5	<0.5	<0.5	<0.5	--		
	11/30/94	8.7	323.89	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/02/95	8.54	321.67	<50	<0.5	<0.5	<0.5	<0.5	--		
	06/07/95	8.42	321.79	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/26/95	9.34	320.87	540	6.8	<0.5	47	29	13		
	12/28/95	8.84	321.37	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	02/29/96	7.44	322.77	<50	<0.5	<0.5	<0.5	1.5	<2.5		
	06/27/96	8.83	321.38	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	9.4	321.01	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/31/97	9.11	321.3	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	12/23/98	8.91	321.5	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/25/99	8.1	322.31	<50	<0.5	<0.5	<0.5	<0.5	2.7		
	02/03/00	8.36	322.05	<50	<0.5	<0.5	<0.5	<0.5	<2.5 (<2.0)		

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
EA-1	10/17/88	--	--	<50	<0.5	<0.5	<0.5	<0.5	--		
331.21	10/24/88	10.64	322.77	--	--	--	--	--	--		
	11/02/88	10.69	322.72	--	--	--	--	--	--		
	12/20/88	10.51	322.9	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/28/89	9.87	323.54	<250	<0.5	<0.5	<0.5	<0.5	--		
	08/02/89	10.34	323.07	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	10.65	322.76	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	10.6	322.81	<50	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	10.58	322.83	71	2	5	3	8	--		
	08/01/90	10.88	322.53	300	86	21	10	33	--		
	10/24/91	11.12	322.29	280	69	13	11	16	--		
	01/31/91	11.16	322.25	460	160	11	17	17	--		
	08/21/91	10.8	322.61	2,400	400	220	44	120	--		
	08/21/91	10.8	322.61	2,300	390	210	42	120	--		Duplicate
	10/07/91	10.79	322.62	--	--	--	--	--	--		
	01/28/92	10.79	322.62	3,600	320	360	110	310	--		
	01/28/92	10.79	322.62	3,000	290	320	99	270	--		Duplicate
	06/05/92	10.84	322.57	1,700	290	89	61	130	--		
	09/30/92	11.06	322.35	2,100	160	260	80	350	--		
	12/30/92	10.15	323.26	3,200	240	180	110	310	--		
	03/29/93	9.42	323.99	23,000	700	3,000	610	3,000	--		
	06/25/93	10.42	322.99	2.7	130	590	130	590	--		
	09/16/93	10.66	322.75	3.9	410	830	220	890	--		
	12/20/93	10.6	322.81	27	1,200	2,600	1,100	4,200	--		
	03/29/94	10.41	323	6.3	250	700	200	830	--		
	06/22/94	10.4	323.01	4.1	71	240	110	460	<30		
	09/20/94	10.37	323.04	8,500	1,200	1,300	370	1,400	--		
	10/04/94	10.34	323.07	7,600	97	360	150	620	--		
	11/30/94	9.46	323.95	8,800	180	490	240	900	--		
	03/02/95	9.96	321.07	6.9	82	570	210	970	--		
	06/15/95	9.8	321.23	4.8	44	210	160	620	<25		
	09/26/95	10.48	320.55	13,000	150	620	370	1,400	<125		
	12/28/95	10.14	320.89	11,000	74	250	200	750	79		
	02/29/96	8.74	322.29	17,000	59	480	350	1,600	<125		
	06/27/96	10.21	320.82	3,600	22	130	130	49	46		
	09/12/96	10.49	320.72	2,000	20	<10	18	44	<50		
	03/31/97	10.19	321.02	17,000	87	230	330	1,200	310		
	12/23/98	9.83	321.38	290	20	0.88	1.1	16	<2.5		
	03/25/99	9.13	322.08	500	21	<0.5	21	<0.5	18		
	02/03/00	9.05	322.16	2,310	35.7	90	21.8	147	1,280 (365)		
	01/23/01	--	--	--	--	--	--	--	--		Inaccessible
	05/01/01	9.82	321.39	7,710	19.9	12.6	22.3	64	31.8		
	08/28/01	10.04	321.17	4,800	69	<25	50	140	160		
	11/27/01	10.05	321.16	5,300	25	<5.0	30	120	<20		
	02/28/02	--	--	--	--	--	--	--	--		Inaccessible
	05/22/02	9.05	322.16	110	<1.0	<0.50	1	<1.5	<2.5		
	08/20/02	9.21	322	410	2.6	<0.50	8.5	29	<5.0		
	11/11/02	9.01	322.2	3,800	<0.50	1.3	17	47	<5.0		

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
EA-2 (Cont'd)	01/23/01	9.08	321.33	441 (1)	1.27	0.542	40.3	31	72.9		
	05/01/01	8.87	321.54			SAMPLED ANNUALLY					
	08/28/01	9.45	320.96			SAMPLED ANNUALLY					
	11/27/01	9.5	320.91			SAMPLED ANNUALLY					
	02/28/02	9.05	321.36	<50	<0.50	<0.50	<0.5	<1.5	74		
	05/22/02	9.04	321.37			SAMPLED ANNUALLY					
	08/20/02	9	321.41			SAMPLED ANNUALLY					
	11/11/02	9.03	321.38			SAMPLED ANNUALLY					
	05/08/03	7.26	323.15	<50	<0.5	<0.5	<0.5	<0.5	2.2/0.9		
	12/15/04	8.96	321.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	02/21/05	7.20	323.21	<50	<0.5	<0.5	<0.5	<0.5	13 (11)	0.64	
	05/17/05	8.21	322.20			SAMPLED ANNUALLY				0.77	
	08/17/05	7.97	322.44			SAMPLED ANNUALLY				0.85	
	11/27/05	9.83	320.58			SAMPLED ANNUALLY				0.84	
	02/21/06	8.78	321.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51/0.68	
	03/28/06	--	--	--	--	--	--	--	--	--	**Well Abandoned**
EA-3	10/17/88	--	--	<50	1.8	<0.5	<0.5	3	--		
331.5	10/24/88	11.03	322.61	--	--	--	--	--	--		
	11/02/88	11.03	322.61	--	--	--	--	--	--		
	12/20/88	10.96	322.68	240	90	1.2	13	3.3	--		
	03/28/89	9.77	323.87	2,300	380	130	240	910	--		
	08/02/89	10.65	322.99	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	10.78	322.86	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	10.66	322.98	<50	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	10.68	322.96	<50	0.8	<0.5	0.9	<0.5	--		
	08/01/90	11.03	322.61	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/24/90	11.35	322.29	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	11.52	322.12	<50	<0.5	<0.5	<0.5	<0.5	--		
	08/21/91	--	--	--	--	--	--	--	--		
	10/07/91	11.15	322.49	180	40	20	4.7	8.4	--		
	10/7/1991	--	--	200	43	17	4.1	6.7	--		Duplicate
	01/28/92	11.08	322.56	640	69	85	13	46	--		
	06/05/92	10.98	322.66	250	63	8.3	3	9.5	--		
	09/30/92	11.38	322.26	330	120	33	6.3	22	--		
	12/30/92	10.48	323.16	58	7.6	1.3	2.5	5.4	--		
	03/29/93	9.3	324.34	120	11	4.5	6.2	13	--		
	06/25/93	10.46	323.18	<50	<0.5	<0.5	<0.5	<1.5	--		
	09/16/93	10.9	322.74	85	3.9	8.8	4.5	22	--		
	12/20/93	10.66	322.98	190	12	12	13	50	--		
	03/29/94	10.5	323.14	<50	<0.5	1.2	<0.5	0.9	--		
	06/22/94	10.64	323	<50	<0.5	<0.5	<0.5	<0.5	<3.0		
	09/26/94	10.72	322.92	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/04/94	10.68	322.96	<50	<0.5	<0.5	<0.5	0.7	--		
	11/30/94	9.66	323.98	170	6.1	3	6.5	28	--		
	03/02/95	9.92	321.38	<50	<0.5	<0.5	<0.5	<0.5	--		
	06/07/95	9.72	321.58	<50	<0.5	<0.5	<0.5	<0.5	3.2		
	09/26/95	10.6	320.7	2,000	140	<5.0	<5.0	190	280		

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
EA-3 (Cont'd)	12/28/95	9.82	321.48	<50	<0.5	<0.5	<0.5	<0.5	26		
	02/29/96	8.28	323.02	<50	2.1	<0.5	2.5	6	31		
	06/27/96	9.91	321.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	10.59	320.91	13,000	<20	<20	<20	<20	48		
	03/31/97	--	--	--	--	--	--	--	--		Inaccessible
	04/15/97	10.25	321.25	<125	2	<1.2	<1.2	<1.2	680		
	12/23/98	--	--	--	--	--	--	--	--		Inaccessible
	03/25/99	--	--	--	--	--	--	--	--		Inaccessible
	02/03/00	--	--	--	--	--	--	--	--		Inaccessible
	01/23/01	10.31	321.19	862 (1)	3.97	1.15	18.9	48.6	289		
	05/01/01	10.15	321.35	SAMPLED SEMI-ANNUALLY							
	08/28/01	10.56	320.94	<50	<0.5	<0.5	<0.5	<0.5	37		
	11/27/01	10.65	320.85	SAMPLED SEMI-ANNUALLY							
	02/28/02	10.37	321.13	<50	1.3	<0.50	2	1.8	90		
	05/22/02	10.27	321.23	SAMPLED SEMI-ANNUALLY							
	08/20/02	10.3	321.2	<50	<0.50	<0.50	<0.50	<1.5	40		
	11/11/02	9.05	322.45	SAMPLED SEMI-ANNUALLY							
	05/08/03	8.83	322.67	<50	<0.5	<0.5	<0.5	<0.5	39/37		
	12/15/04	10.39	321.11	<50	<0.5	<0.5	<0.5	<0.5	18 (17)		
	02/21/05	8.80	322.70	<50	<0.5	<0.5	2.3	1.4	180 (290)	0.69	
	05/17/05	9.57	321.93	140	0.68	<0.5	6.6	0.94	250 (340)	0.86	
	08/17/05	9.23	322.27	3,800	11	3.7	110	24	200 (200)	0.99	
	11/27/05	11.05	320.45	150	<0.5	1.8	2.4	0.56	88 (85)	0.81	
	02/21/06	10.10	321.40	83	<0.5	0.72	1.7	<0.5	40 (49)	0.38/0.65	
	04/03/06	--	--	--	--	--	--	--	--	--	**Well Abandoned**
MW-1	10/04/94	12.8	320.76	2,100	150	170	61	320	--		
333.66	11/30/94	12.38	321.18	1,500	210	17	73	130	--		
	03/02/95	12.88	320.68	2,600	510	<10	160	<10	--		
	06/07/95	12.58	320.98	710	160	<2.0	45	<2.0	<10		
	09/26/95	13.15	320.41	1,100	140	1.4	92	1.8	<5.0		
	12/28/95	13.09	320.47	750	96	2.5	61	7.4	37		
	02/29/96	12.17	321.39	250	17	<0.5	18	0.81	9		
	06/27/96	12.95	320.61	710	72	<2.0	92	2.2	<10		
	09/12/96	13.11	320.55	300	53	<0.5	32	0.65	21		
	03/31/97	12.99	320.67	<200	4.1	<2.0	4.8	<2.0	640		
	12/23/98	13.87	319.79	<50	<50	<0.5	<0.5	<0.5	3200		
	03/25/99	12.01	321.65	<50	<0.5	<0.5	<0.5	<0.5	5,200 (5,200)		
	02/03/00	11.91	321.75	<500	<5.0	<5.0	<5.0	<5.0	3,180 (3,350)		
	01/23/01	12.57	321.09	<50.0	<0.5	<0.5	<0.5	<0.5	4,420		
	05/01/01	12.6	321.06	SAMPLED SEMI-ANNUALLY							
	08/28/01	12.74	320.92	<50	<0.5	<0.5	<0.5	<0.5	4,800		
	11/27/01	12.7	320.96	SAMPLED SEMI-ANNUALLY							
	02/28/02	12.7	320.96	<50	<0.5	<0.5	<0.5	<1.5	1,400		
	05/22/02	12.38	321.28	SAMPLED SEMI-ANNUALLY							
	08/20/02	12.57	321.09	<50	<0.5	<0.5	<0.5	<1.5	1,400		
	11/11/02	11.31	322.35	SAMPLED SEMI-ANNUALLY							
	05/08/03	11.85	321.81	<50	<0.5	<0.5	<0.5	<0.5	1,300 (1,200)		

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
MW-1 (Cont'd)	12/15/04	12.80	320.86	<50	<0.5	<0.5	<0.5	<0.5	1,700 (1,900)		
	02/21/05	11.81	321.85	<100	<1.0	<1.0	<1.0	<1.0	3,000 (3,800)	0.82	
	05/17/05	12.51	321.15	<120	<1.2	<1.2	<1.2	<1.2	3,400 (4,400)	0.75	
	08/17/05	12.35	321.31	<170	<1.7	<1.7	<1.7	<1.7	4,500 (4,900)	0.77	
	11/27/05	13.18	320.48	<170	<1.7	<1.7	<1.7	<1.7	5,400 (4,400)	0.90	
	02/21/06	12.61	321.05	<170	<1.7	<1.7	<1.7	<1.7	5,000 (5,400)	0.29/0.71	
333.69	**06/01/06**	**12.47**	**321.22**	**<250**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**6,400 (6,300)**	**0.46**	**TAME, TBA, DIPE, ETBE=ND**
	07/07/06	**12.60**	**321.09**	--	--	--	--	--	--	--	
MW-2	10/04/94	8.56	320.62	2300	160	280	96	480	--		
329.29	11/30/94	8.33	320.85	1,600	170	16	110	120	--		
	03/02/95	8.35	320.83	1,200	220	5.6	140	36	--		
	06/07/95	8.62	320.56	160	25	<0.5	16	<0.5	240		
	09/26/95	8.71	320.47	150	15	<0.5	7.2	<0.5	120		
	12/28/95	8.78	320.4	400	34	1.3	26	5.1	170		
	02/29/96	7.82	321.36	120	29	<0.5	<0.5	<0.5	790		
	06/27/96	8.72	320.46	150	13	<0.5	7	<0,5	850		
	09/12/96	8.81	320.48	<1,000	18	<10	<10	<10	3,100		
	03/31/97	8.65	320.64	<500	<5.0	<5.0	<5.0	<5.0	1,400		
	12/23/98	8.32	320.97	<50	<0.5	<0.5	<0.5	<1.5	900		
	03/25/99	7.89	321.4	<50	2.6	<0.5	<0.5	<0.5	1,100 (670)		
	02/03/00	7.53	321.76	<125	<1.25	<1.25	<1.25	<1.25	1,020 (1,100)		
	01/23/01	8.18	321.11	<50.0	<0.5	<0.5	<0.5	<0.5	642		
	05/01/01	8.43	320.86	70.8	<0.5	<0.5	<0.5	<0.5	342		
	08/28/01	8.39	320.9	<50	<0.5	<0.5	<0.5	<0.5	530		
	11/27/01	8.46	320.83	210	<0.5	<0.5	<0.5	<1.5	260		
	02/28/02	8.48	320.81	<50	<0.5	<0.5	<0.5	<1.5	180		
	05/22/02	8.14	321.15	<50	<0.5	<0.5	<0.5	<1.5	180		
	08/20/02	8.24	321.05	<50	<0.5	<0.5	<0.5	<1.5	160		
	11/11/02	8.06	321.23	<50	<0.5	<0.5	<0.5	<1.5	130		
	05/08/03	7.86	321.43	<50	<0.5	<0.5	<0.5	<0.5	180 (160)		
	12/15/04	8.60	320.69	<50	<0.5	<0.5	<0.5	<0.5	1,400 (1,600)		
	02/21/05	7.55	321.74	<50	<0.5	<0.5	<0.5	<0.5	800 (1,100)	1.35	
	05/17/05	8.52	320.77	<50	<0.5	<0.5	<0.5	<0.5	160 (210)	1.06	
	08/17/05	8.16	321.13	<50	<0.5	<0.5	<0.5	<0.5	190 (210)	0.99	
	11/27/05	9.00	320.29	<50	<0.5	<0.5	<0.5	<0.5	200 (210)	0.92	
	02/21/06	8.51	320.78	<50	<0.5	<0.5	<0.5	<0.5	240 (270)	0.33/0.46	
329.48	**06/01/06**	**8.50**	**320.98**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**120 (110)**	**0.38**	**TAME, TBA, DIPE, ETBE=ND**
	07/07/06	**8.57**	**320.91**	--	--	--	--	--	--	--	
MW-3	10/04/94	12.06	320.67	6,300	610	750	68	670	--		
332.86	11/30/94	11.38	321.35	17	3,600	490	430	610	--		
	03/02/95	11.97	320.76	8,500	2,200	<50	240	<50	64,000		
	06/07/95	11.54	321.19	3,000	710	18	220	44	3,100		

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
MW-3 (Cont'd)	09/26/95	12.36	320.37	<10,000	230	<100	130	<100	64,000		
	12/28/95	12.07	320.66	<12,500	760	<125	<125	<125	100,000		
	02/29/96	11.01	321.72	1,600	380	<10	84	17	33,000		
	06/27/96	11.93	320.8	1,400	<2.5	4.3	130	4	96,000		
	09/12/96	12.26	320.6	<10,000	560	<100	110	<100	100,000		
	03/31/97	12.04	320.82	<25,000	1,200	370	<250	380	130,000		
	12/23/98	12.92	319.94	--	--	--	--	--	--		0.1' SPH; 0.079 gal SPH removed
	03/25/99	12.56	320.3	--	--	--	--	--	--		0.05' SPH; 0.05 gal SPH removed
	02/03/00	11.12	321.74	92,100	4,780	11,400	2,270	15,800	137,000 (162,000)		
	1/23/2001	11.78	321.08	60,600	4,810	7,500	1,870	11,000	148,000		Absorbent sock in well
	5/1/2001	10.66	322.2	56,000	3,760	5,640	<2,500	8,740	136,000		Absorbent sock in well
	8/28/2001	11.79	321.07	32,000	3,800	2,600	1,200	7,500	160,000		Absorbent sock in well
	11/27/2001	11.98	320.88	110,000	1,300	2,400	1,500	9,400	90,000		Absorbent sock removed
	02/28/02	11.81	321.05	24,000	1,900	820	520	3,100	90,000		
	05/22/02	11.6	321.26	110,000	4,000	3,200	2,800	18,000	140,000		
	08/20/02	11.81	321.05	37,000	2,600	1,500	890	4,800	110,000		
	11/11/02	11.63	321.23	81,000	2,900	2,100	2,100	14,000	110,000		
	05/08/03	10.91	321.95	5,700	770	69	130	365	76,000 (70,000)		
	12/15/04	11.97	320.89	33,000	1,700	430	1,300	7,000	70,000 (89,000)		
	02/21/05	10.81	322.06	--	--	--	--	--	--	1.29	0.01 SPH
	05/17/05	11.63	321.29	--	--	--	--	--	--	1.06	0.08 SPH
	08/17/05	10.83	322.03	39,000	1,500	260	780	2,700	42,000 (47,000)	0.93	
	11/27/05	12.29	320.72	--	--	--	--	--	--	--	0.19 SPH
	02/21/06	11.73	321.28	--	--	--	--	--	--	--	0.19 SPH
	03/30/06	--	--	--	--	--	--	--	--	--	**Well Abandoned**
MW-3A	**05/29/06**	**10.13**	**321.28**	--	--	--	--	--	--	--	**0.03 SPH**
331.39	**07/07/06**	**10.15**	**321.24**	**4,200**	**340**	**27**	**75**	**79**	**32,000**	--	
MW-4	03/01/96	9.9	322.74	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
332.63	04/02/96	9.77	322.87	--	--	--	--	--	--		
	06/27/96	10	322.64	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	11.67	320.96	<50	<0.5	<0.5	<0.5	<0.5	3.5		
	03/31/97	10.59	322.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	12/23/98	10.37	322.26	<50	<0.5	<0.5	<0.5	<1.5	<2.5		
	03/25/99	9.91	322.72	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	02/03/00	10.32	322.31	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 (3)		
	01/23/01	10.54	322.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	05/01/01	10.32	322.31				SAMPLED ANNUALLY				
	08/28/01	10.57	322.06				SAMPLED ANNUALLY				
	11/27/01	10.29	322.34				SAMPLED ANNUALLY				
	02/28/02	10.3	322.33	<50	<0.5	<0.5	<0.5	<1.5	<2.5		
	05/22/02	10.12	322.51				SAMPLED ANNUALLY				
	08/20/02	10.43	322.2				SAMPLED ANNUALLY				
	11/11/02	9.89	322.74				SAMPLED ANNUALLY				
	05/08/03	9.79	322.84	<50	<0.5	<0.5	<0.5	<0.5	<2		
	12/15/04	10.56	322.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	02/21/05	9.50	323.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0 (<0.5)	1.60	

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
MW-4 (Cont'd)	05/17/05	10.20	322.43			SAMPLED ANNUALLY				1.29	
	08/17/05	10.50	322.13			SAMPLED ANNUALLY				1.10	
	11/27/05	11.07	321.56			SAMPLED ANNUALLY				1.01	
	02/21/06	10.53	322.10	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.14/0.90	
332.64	**05/29/06**	**10.33**	**322.31**			**SAMPLED ANNUALLY**				--	
	07/07/06	**10.52**	**322.12**	--	--	--	--	--	--	--	
MW-5	03/01/96	10.62	322.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
333.47	04/02/96	10.14	323.06	--	--	--	--	--	--		
	06/27/96	10.22	322.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	10.85	322.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/31/97	10.44	322.6	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	12/23/98	10.21	322.83	<50	<0.5	<0.5	<0.5	<1.5	<2.5		
	03/25/99	9.92	323.12	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	02/03/00	9.63	323.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.03		
	01/23/01	10.35	322.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	05/01/01	10.34	322.7			SAMPLED ANNUALLY					
	08/28/01	10.44	322.6			SAMPLED ANNUALLY					
	11/27/01	10.17	322.87			SAMPLED ANNUALLY					
	02/28/02	10.2	322.84	<50	<0.5	<0.5	<0.5	<1.5	<2.5		
	05/22/02	10.38	322.66			SAMPLED ANNUALLY					
	08/20/02	10.36	322.68			SAMPLED ANNUALLY					
	11/11/02	10.03	323.01			SAMPLED ANNUALLY					
	05/08/03	9.56	323.48	<50	<0.5	<0.5	<0.5	<0.5	3.4/<0.5		
	12/15/04	10.08	322.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	02/21/05	9.90	323.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0 (0.54)	1.62	
	05/17/05	10.33	322.71			SAMPLED ANNUALLY				1.47	
	08/17/05	10.40	322.64			SAMPLED ANNUALLY				1.18	
	11/27/05	10.43	322.61			SAMPLED ANNUALLY				1.19	
	02/21/06	10.32	322.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.48/0.76	
333.13	**05/29/06**	**10.41**	**322.72**			**SAMPLED ANNUALLY**				--	
	07/07/06	**10.46**	**322.67**	--	--	--	--	--	--	--	
MW-6A	**06/01/06**	**10.38**	**321.43**	**620**	**20**	**<2.5**	**<2.5**	**43**	**5,700 (5,300)**	**0.73**	**TAME, TBA, DIPE, ETBE=ND**
331.81	**07/07/06**	**10.15**	**321.66**	--	--	--	--	--	--	--	
MW-6B	**06/01/06**	**8.41**	**322.49**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**18 (16)**	**0.34**	**TAME, TBA, DIPE, ETBE=ND**
330.9	**07/07/06**	**8.55**	**322.35**	--	--	--	--	--	--	--	
MW-6C	**06/01/06**	**8.21**	**322.67**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**0.29**	**TAME, TBA, DIPE, ETBE=ND**
330.88	**07/07/06**	**8.41**	**322.47**	--	--	--	--	--	--	--	
MW-7AA	**05/31/06**	**9.18**	**321.49**	**12,000**	**1,000**	**410**	**180**	**1,600**	**23,000 (21,000)**	**0.44**	**TAME, TBA, DIPE, ETBE=ND**
330.67	**07/07/06**	**9.15**	**321.52**	--	--	--	--	--	--	--	
MW-7A	**05/31/06**	**9.19**	**321.52**	**<50**	**1.3**	**<0.5**	**0.79**	**0.82**	**760 (770)**	**0.40**	**TAME, TBA, DIPE, ETBE=ND**
330.71	**07/07/06**	**9.17**	**321.54**	--	--	--	--	--	--	--	

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev.* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
MW-7B	**05/31/06**	**9.05**	**321.64**	**<50**	**0.79**	**<0.5**	**<0.5**	**0.75**	**6.4 (6.6)**	**0.17**	**TAME, TBA, DIPE, ETBE=ND**
330.69	**07/07/06**	**9.03**	**321.66**	--	--	--	--	--	--	--	
MW-7C	**05/31/06**	**8.65**	**322.09**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**0.12**	**TAME, TBA, DIPE, ETBE=ND**
330.74	**07/07/06**	**8.70**	**322.04**	--	--	--	--	--	--	--	
MW-8A	**05/29/06**	**9.55**	**321.64**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**20 (18)**	**0.39**	**TAME, TBA, DIPE, ETBE=ND**
331.19	**07/07/06**	**9.20**	**321.99**	--	--	--	--	--	--	--	
MW-9A	**05/29/06**	**10.13**	**321.04**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**210 (210)**	**0.46**	**TAME, TBA, DIPE, ETBE=ND**
331.17	**07/07/06**	**9.96**	**321.21**	--	--	--	--	--	--	--	
MW-9C	**05/29/06**	**16.59**	**314.89**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**0.28**	**TAME, TBA, DIPE, ETBE=ND**
331.48	**07/07/06**	**8.85**	**322.63**	--	--	--	--	--	--	--	
MW-10A	**05/29/06**	**11.60**	**318.33**	**<50**	**<0.5**	**<0.5**	**<0.5**	**0.67**	**5.3 (4.7)**	**0.68**	**TAME, TBA, DIPE, ETBE=ND**
329.93	**07/07/06**	**9.78**	**320.15**	--	--	--	--	--	--	--	
MW-10C	**05/29/06**	**7.28**	**322.38**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**0.16**	**TAME, TBA, DIPE, ETBE=ND**
329.66	**07/07/06**	**7.28**	**322.38**	--	--	--	--	--	--	--	
MW-11C	**05/31/06**	**9.90**	**321.71**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**11 (11)**	**0.29**	**TAME, TBA, DIPE, ETBE=ND**
331.61	**07/07/06**	**10.02**	**321.59**	--	--	--	--	--	--	--	
VW-1	02/21/06	7.95	322.48	860	120	1.4	32	4.4	390 (440)	1.97	
330.43	**06/01/06**	**7.89**	**322.54**	**1,100**	**92**	**2.2**	**11**	**1.4**	**600 (550)**	**0.11**	**TAME=12µg/L, TBA,DIPE,ETBE=ND**
	07/07/06	**7.71**	**322.72**	--	--	--	--	--	--	--	
VW-2	02/21/06	6.01	324.16	1,600	150	2.7	55	20	1,700 (1,600)	1.97	
330.17	**06/01/06**	**6.17**	**324.00**	**1,500**	**140**	**3.3**	**24**	**19**	**1,600 (1,600)**	**0.29**	**TAME, TBA, DIPE, ETBE=ND**
	07/07/06	**7.02**	**323.15**	--	--	--	--	--	--	--	
VW-3	02/21/06	6.10	324.39	8,900	390	29	490	650	<50	2.28	
330.49	**06/01/06**	**6.22**	**324.27**	**5,900**	**230**	**4.5**	**270**	**63**	**<35 (15)**	**0.21**	**TAME, TBA, DIPE, ETBE=ND**
	07/07/06	**4.44***	**326.05**	--	--	--	--	--	--	--	

ABBREVIATIONS AND NOTES:

SPH = Separate-phase hydrocarbons, calculated groundwater elevation corrected for SPH by the relation: Groundwater Elevation = Well Elevation - Depth to Water +(0.8xSPH Thickness)

Groundwater monitoring data and laboratory analytical results prior to December 14, 2004, were scanned from a report by SOMA

(ft) = Feet

(msl) = Mean sea level

TOC Elev. (ft) = Top of casing elevation

µg/L = micrograms per liter - approximately equal to parts per billion = ppb

mg/L = milligrams per liter - approximately equal to parts per million = ppm

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015C

BTEX by EPA Method 8020/8021.

MTBE = Methyl tertiary butyl ether by EPA Method 8020/8021 (Concentrations in parentheses are by EPA Method 8260B)

1,2-DCA = 1,2-Dichloroethane

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID *TOC Elev* *(ft)*	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		

TAME = Tertiary amyl methyl ether by EPA Method 8260B
TBA = Tertiary butyl alcohol by EPA Method 8260B
DIPE = Dispopropyl ether by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether by EPA Method 8260B
-- Not Measured/Not Analyzed
1 Laboratory report indicates weathered gasoline C6-C12
Dissolved oxygen concentrations measured downhole pre-purge or pre-purge/post-purge
* cap loose, sprinkler runoff entering well

Table 2 –Well Construction Details –7240 Dublin Blvd., Dublin, CA

Well ID (TOC Elev)	Total Depth of Well (feet bgs)	Screened Interval (ft bgs)	Drill Hole Diameter (inches)	Casing Diameter (inches)	Surface Seal Depth (ft bgs)
MW-1	25	5-25	8	2	0-4
MW-2	20	5-20	8	2	0-4
MW-3A	17	10-17	10	4	0-9
MW-4	20	8.5-20	8	2	0-8
MW-5	21	8.5-21	8	2	0-8
MW-6A	20	15-20	10	4	0-14
MW-6B	30	26-30	8	2	0-25
MW-6C	44	34-44	8	2	0-33
MW-7AA	14	9-14	10	4	0-8
MW-7A	20	16-20	10	4	0-15
MW-7B	30	26-30	8	2	0-25
MW-7C	45	35-45	12	2	0-34
MW-8A	20	15-20	8	2	0-4
MW-9A	20	15-20	8	2	0-14
MW-9C	45	35-45	12	2	0-34
MW-10A	20	15-20	8	2	0-14
MW-10C	45	35-45	8	2	0-34
MW-11C	43.5	33.5-43.5	8	2	0-32
VW-1	9	3-9	8	2	0-2.5
VW-2	9	3-9	8	2	0-2.5
VW-3	9	3-9	8	2	0-2.5

APPENDIX A

Groundwater Monitoring Field Data Sheets

Pangea
ENVIRONMENTAL SERVICES, INC.

Well Gauging Data Sheet

Project.Task #: 1001.001 207				Project Name: Dublin Car Wash			
Address: 7420 Dublin Boulevard Dublin, CA						Date: 5/29/06	
Name: Sanjiv Gill				Signature:			
Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-1	2"	8:20			12.47	25.32	TOC
MW-2	2"	8:15			8.50	20.00	
MW-3A	4"	10:10	10.10	0.03	10.13	—	
MW-4	2"	8:00			10.33	19.78	
MW-5	2"	8:05			10.41	20.56	
MW-6A	2"	10:00			10.38	19.13	
MW-6B	2"	9:55			8.41	29.73	
MW-6C	2"	9:50			8.21	44.15	
MW-7AA	4"	9:35			9.18	13.84	
MW-7A	4"	9:30			9.19	19.53	
MW-7B	2"	9:25			9.05	28.42	

Comments:

Pangea
ENVIRONMENTAL SERVICES, INC.

Well Gauging Data Sheet

Project.Task #: 1001.001 207				Project Name: Dublin Car Wash			
Address: 7420 Dublin Boulevard Dublin, CA						Date: 5/29/06	
Name: Sanjiv Gill				Signature:			
Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-7C	2"	9:20			8.65	44.45	TOC
MW-8A	2"	8:40			9.55	19.01	
MW-9A	2"	8:35			10.13	19.66	
MW-9C	2"	8:30			16.59	44.16	
MW-10A	2"	9:05			11.60	19.51	
MW-10C	2"	9:00			7.28	44.60	
MW-11C	2"	9:10			9.90	42.95	
VW-1	2"	8:58			7.89	8.40	
VW-2	2"	8:50			6.17	8.30	
VW-3	2"	8:53			6.22	8.40	X

Comments:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-1

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 25.32	Depth to Product:
Depth to Water (DTW): 12.47	Product Thickness:
Water Column Height: 12.85	1 Casing Volume: 2.05 gallons
Reference Point: TOC	3 Casing Volumes: 6.15 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp C	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
7:30	17.9	7.28	643				2	
7:35	18.2	7.18	610				4	
7:40	18.5	7.20	625				6	

Comments: Oakton DO meter — pre purge DO = 0.46 mg/l

post purge DO = mg/l

Sample ID: MW-1	Sample Time: 7:45
Laboratory: McCampbell Analytical, INC.	Sample Date: 6/1/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-2

Project.Task #: 1001.001 207	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 20.00	Depth to Product:
Depth to Water (DTW): 8.50	Product Thickness:
Water Column Height: 11.50	1 Casing Volume: 1.84 gallons
Reference Point: TOC	3 Casing Volumes: 5.52 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp C	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
6:55	18.4	6.95	538				2	
7:00	18.0	7.13	620				4	
7:05	18.3	7.10	612				5.5	

Comments: Oakton DO meter — pre purge DO = 0.38 mg/l

post purge DO = mg/l

Sample ID: MW-2	Sample Time: 7:10
Laboratory: McCampbell Analytical, INC.	Sample Date: 6/1/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-3A

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 4"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD):	Depth to Product: 10.10
Depth to Water (DTW): 10.13	Product Thickness: 0.03
Water Column Height:	1 Casing Volume: gallons
Reference Point: TOC	___ Casing Volumes: gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ☺	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW

Comments: Oakton DO meter

pre purge DO = mg/l

post purge DO = mg/l

Sample ID:	Sample Time:
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/ /2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-6A

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | 2" = 0.16 | 4" = 0.65 | radius^2 * 0.163
Total Depth (TD): 19.13	Depth to Product:
Depth to Water (DTW): 10.38	Product Thickness:
Water Column Height: 8.75	1 Casing Volume: 1.40 gallons
Reference Point: TOC	3 Casing Volumes: 4.20 gallons

Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp C	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
6:20	22.1	10.01	1165				1.5	
6:25	21.5	8.90	1325				3	
6:30	22.0	8.91	1324				4	

Comments: Oakton DO meter — pre purge DO = 0.73 mg/l

very turbid, silty — post purge DO = mg/l

Sample ID: MW-6A	Sample Time: 6:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/1/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-6B

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 29.73	Depth to Product:
Depth to Water (DTW): 8.41	Product Thickness:
Water Column Height: 21.32	1 Casing Volume: 3.41 gallons
Reference Point: TOC	3 Casing Volumes: 10.23 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ℃	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
5:30	72.4	7.82	1324				3.5	
5:40	72.3	7.47	1327				7	
5:50	72.4	7.54	1334				10	

Comments: Oakton DO meter — pre purge DO = 0.34 mg/l

Soap like foam, turbid — post purge DO = mg/l

Sample ID: MW-6B	Sample Time: 5:55
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/1/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-6C

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 44.15	Depth to Product:
Depth to Water (DTW): 8.21	Product Thickness:
Water Column Height: 35.94	1 Casing Volume: 5.75 gallons
Reference Point: TOC	3 Casing Volumes: 17.25 gallons
Purging Device: (Disposable Bailer), 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp C	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
4:30	22.0	8.09	1461				6	
4:45	21.9	7.70	1396				12	
5:00	21.9	7.61	1390				17	

Comments: Oakton DO meter — pre purge DO = 0.29 mg/l

post purge DO = mg/l

Sample ID: MW-6C	Sample Time: 5:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 6/1/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7AA

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 4"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 13.84	Depth to Product:
Depth to Water (DTW): 9.18	Product Thickness:
Water Column Height: 4.66	1 Casing Volume: 3.02 gallons
Reference Point: TOC	3 Casing Volumes: 9.06 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
6:55	19.9	7.46	1347				3	
7:15	19.6	7.45	1383				6	
7:25	Desanfessed		on 5-31-06				9 7	

Comments: Oakton DO meter — pre purge DO = 0.44 mg/l

odor, very turbid, silty — post purge DO = mg/l

Sample ID: MW-7AA	Sample Time: 10:45
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/31/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7A

Project.Task #: 1001.001 207	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 4"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 19.53	Depth to Product:
Depth to Water (DTW): 9.19	Product Thickness:
Water Column Height: 10.74	1 Casing Volume: 6.98 gallons
Reference Point: TOC	3 Casing Volumes: 20.94 gallons

Purging Device: Disposable Bailer, (3" PVC Bailer), Whal Pump

Sampling Device: Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
6:05	20.1	7.49	1429				7	
6:15	20.4	7.43	1427				14	
6:25	20.4	7.36	1416				21	

Comments: Oakton DO meter
very turbid silty

pre purge DO = 0.40 mg/l
post purge DO = mg/l

Sample ID: MW-7A	Sample Time: 6:30
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/31/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7B

Project.Task #: 1001.001 207	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 28.42	Depth to Product:
Depth to Water (DTW): 9.05	Product Thickness:
Water Column Height: 19.37	1 Casing Volume: 3.09 gallons
Reference Point: TOC	3 Casing Volumes: 9.27 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp C°	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
5:25	20.7	7.32	1229				3	
5:30	20.5	7.27	1267				6	
5:35	20.6	7.29	1284				9	

Comments: Oakton DO meter turbid

pre purge DO = 0.17 mg/l

post purge DO = mg/l

Sample ID: MW-7B	Sample Time: 5:40
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/31/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7C

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash			
Address: 7420 Dublin Boulevard Dublin, CA				
Date: 5/29/2006	Weather: Clear			
Well Diameter: 2"	Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47
		2" = 0.16	4" = 0.65	radius^2 * 0.163
Total Depth (TD): 44.45	Depth to Product:			
Depth to Water (DTW): 8.65	Product Thickness:			
Water Column Height: 35.80	1 Casing Volume: 5.72 gallons			
Reference Point: TOC	3 Casing Volumes: 17.18 gallons			
Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Whal Pump				
Sampling Device: Disposable Bailer				

Time	Temp C	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
4:30	20.6	7.19	906				6	
4:45	19.9	7.17	841				12	
5:00	20.2	7.18	844				17	

Comments: Oakton DO meter
turbid

pre purge DO = 0.12 mg/l
post purge DO = mg/l

Sample ID: MW-7C	Sample Time: 5:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/31/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-8A

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 3" = 0.37 | 6" = 1.47 | 2" = 0.16 | 4" = 0.65 | radius² * 0.163
Total Depth (TD): 19.01	Depth to Product:
Depth to Water (DTW): 9.55	Product Thickness:
Water Column Height: 9.46	1 Casing Volume: 1.51 gallons
Reference Point: TOC	3 Casing Volumes: 4.5 gallons

Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
11:40	20.8	7.66	1412				1.5	
11:45	20.0	7.57	1385				3	
11:50	20.0	7.59	1385				4.5	

Comments: Oakton DO meter

pre purge DO = 0.39 mg/l

post purge DO = mg/l

Sample ID: MW-8A	Sample Time: 11:55
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/29/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-9A

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 19.66	Depth to Product:
Depth to Water (DTW): 10.13	Product Thickness:
Water Column Height: 9.53	1 Casing Volume: 1.52 gallons
Reference Point: TOC	3 Casing Volumes: 4.57 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ℃	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
11:10	22.4	7.51	1578				1.5	
11:15	21.8	7.53	1559				3	
11:20	21.8	7.43	1503				4.5	

Comments: Oakton DO meter — pre purge DO = 0.46 mg/l
very turbid — post purge DO = mg/l

Sample ID: MW-9A	Sample Time: 11:25
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/29/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-9C

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 44.16	Depth to Product:
Depth to Water (DTW): 16.59	Product Thickness:
Water Column Height: 27.57	1 Casing Volume: 4.41 gallons
Reference Point: TOC	3 Casing Volumes: 13.23 gallons

Purging Device: (Disposable Bailer), 3" PVC Bailer, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
10:25	22.5	7.29	3710				4.5	
10:30	21.7	7.41	3700				9	
10:35	22.1	7.46	3790				13	

Comments: Oakton DO meter — pre purge DO = 0.29 mg/l

very turbid silty — post purge DO = mg/l

Sample ID: MW-9C	Sample Time: 10:40
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/29/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-10A

Project.Task #: 1001.001 207	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 19.51	Depth to Product:
Depth to Water (DTW): 11.60	Product Thickness:
Water Column Height: 7.91	1 Casing Volume: 1.26 gallons
Reference Point: TOC	3 Casing Volumes: 3.79 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
1305	22.5	7.69	1572				1.5	
1310	21.5	7.46	1565				3	
1315	21.6	7.53	1578				4	

Comments: Oakton DO meter — pre purge DO = 0.68 mg/l

post purge DO = mg/l

Sample ID: MW-10A	Sample Time: 13:20
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/29/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-10C

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 44.60	Depth to Product:
Depth to Water (DTW): 7.28	Product Thickness:
Water Column Height: 37.32	1 Casing Volume: 5.97 gallons
Reference Point: TOC	3 Casing Volumes: 17.91 gallons

Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
12:15	22.5	7.39	1115				6	
12:25	21.2	7.37	1120				12	
12:35	21.9	7.40	1083				18	

Comments: Oakton DO meter — pre purge DO = 0.16 mg/l

very turbid silty — post purge DO = mg/l

Sample ID: MW-10C	Sample Time: 12:40
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/29/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-11C

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 6" = 1.47, radius^2 * 0.163
Total Depth (TD): 42.95	Depth to Product:
Depth to Water (DTW): 9.90	Product Thickness:
Water Column Height: 33.05	1 Casing Volume: 5.28 gallons
Reference Point: TOC	3 Casing Volumes: 15.86 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp C	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
8:10	20.1	7.81	974				5.5	
8:20	20.3	7.80	982				11	
8:30	19.9	7.90	991				16	

Comments: Oakton DO meter
turbid

pre purge DO = 0.29 mg/l
post purge DO = mg/l

Sample ID: MW-11C	Sample Time: 8:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 5/31/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: VW-1

Project.Task #: 1001.001 207	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.47; radius² * 0.163
Total Depth (TD): 8.40	Depth to Product:
Depth to Water (DTW): 7.89	Product Thickness:
Water Column Height: 0.51	1 Casing Volume: 0.08 gallons
Reference Point: TOC	3 Casing Volumes: 0.24 gallons
Purging Device: Disposable Bailer (circled), 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
9:00	5/30/06 Dewatered	after	extracting	1/8	of a liter		0.08	
							~~0.16~~	
							~~0.24~~	
	6-1-06 at 8:28	DTW	= 7.81					

Comments: Oakton DO meter

pre purge DO = 0.11 mg/l

post purge DO = mg/l

Sample ID: VW-1	Sample Time: 8:30
Laboratory: McCampbell Analytical, INC.	Sample Date: 6/1/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature: [signature]

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: VW-2

Project.Task #: 1001.001 207	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 8.30	Depth to Product:
Depth to Water (DTW): 6.17	Product Thickness:
Water Column Height: 2.13	1 Casing Volume: 0.34 gallons
Reference Point: TOC	3 Casing Volumes: 1.02 gallons

Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp ℃	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
9:30	5-31-06	Dewatered after extracting 1 Liter					.3	
							.6	
							1.0	
	6-1-06	DTW = 7.12						
	@ 8:53							

Comments: Oakton DO meter — pre purge DO = 0.29 mg/l

post purge DO = mg/l

Sample ID: VW-2	Sample Time: 8:55
Laboratory: McCampbell Analytical, INC.	Sample Date: 6/1/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: VW-3

Project.Task #: 1001.001 207	Project Name:Dublin Car Wash
Address: 7420 Dublin Boulevard Dublin, CA	
Date: 5/29/2006	Weather: Sunny
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 8.40	Depth to Product:
Depth to Water (DTW): 6.22	Product Thickness:
Water Column Height: 2.18	1 Casing Volume: 0.34 gallons
Reference Point: TOC	3 Casing Volumes: 1.04 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ℃	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
10:05	5-31-06	Dewatered after extracting 1 Liter					.3	
							.6	
							1.0	
	6-1-06	DTW = 7.04						
	at 9:33							

Comments: Oakton DO meter

pre purge DO = 0.21 mg/l

post purge DO = mg/l

Sample ID: VW-3	Sample Time: 9:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 6/1/2006
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021, 8260	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

Well Gauging Data Sheet

Project.Task #: 1001.001				Project Name:Hadjian-Dublin			
Address: 7240 Dublin Blvd, Dublin						Date: 7/ 7 /06	
Name: Morgan Gillies				Signature:			
Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-1	2	621			12.60		Notch TOC
MW-2	2	619			8.57		
MW-3A	4	629			10.15		
MW-4	2	631			10.52		
MW-5	2	633			10.46		
MW-6A	2	615			10.15		
MW-6B	2	613			8.55		
MW-6C	2	611			8.41		
MW-7AA	4	600			9.15		
MW-7A	4	557			9.17		
MW-7B	2	555			9.03		

Comments: * Removed All well caps prior to gauging.

Pangea
ENVIRONMENTAL SERVICES, INC.

Well Gauging Data Sheet

Project.Task #: 1001.001				Project Name:Hadjian-Dublin			
Address: 7240 Dublin Blvd, Dublin						Date: 7/ 7 /06	
Name: Morgan Gillies				Signature:			
Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-7C	2	553			8.70		Notch TOC
MW-8A	2	617			9.20		
MW-9A	2	609			9.96		
MW-9C	2	607			8.85		
MW-10A	2	605			9.78		
MW-10C	2	602			7.28		
MW-11C	2	550			10.02		
VW-1	2	623			7.71		
VW-2	2	625			7.02		
VW-3	2	627			4.44*		
Flood Control Channel		635			11.92		

Comments: * runoff sprinkler H_2O entering well casing, bad cap

Flood Control Channel Measuring point = height of MW-5 TOC?

APPENDIX B

Laboratory Analytical Report

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
		Date Received: 06/01/06
	Client Contact: Bob Clark-Riddell	Date Reported: 06/08/06
	Client P.O.:	Date Completed: 06/08/06

WorkOrder: 0606008

June 08, 2006

Dear Bob:

Enclosed are:

1). the results of **18** analyzed samples from your **#1001.001207; Dublin Car Wash project,**

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Best regards,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
		Date Received: 06/01/06
	Client Contact: Bob Clark-Riddell	Date Extracted: 06/02/06-06/06/06
	Client P.O.:	Date Analyzed: 06/02/06-06/06/06

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0606008

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND<250,j	6400	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5	106
002A	MW-2	W	ND	120	ND	ND	ND	ND	1	104
003A	MW-6A	W	620,a,i	5700	20	ND<2.5	ND<2.5	43	5	99
004A	MW-6B	W	ND	18	ND	ND	ND	ND	1	97
005A	MW-6C	W	ND	ND	ND	ND	ND	ND	1	98
006A	MW-7AA	W	12,000,a	23,000	1000	410	180	1600	50	111
007A	MW-7A	W	ND	760	1.3	ND	0.79	0.82	1	121
008A	MW-7B	W	ND	6.4	0.79	ND	ND	0.75	1	101
009A	MW-7C	W	ND	ND	ND	ND	ND	ND	1	103
010A	MW-8A	W	ND	20	ND	ND	ND	ND	1	106
011A	MW-9A	W	ND	210	ND	ND	ND	ND	1	107
012A	MW-9C	W	ND,i	ND	ND	ND	ND	ND	1	103
013A	MW-10A	W	ND,i	5.3	ND	ND	ND	0.67	1	92
014A	MW-10C	W	ND	ND	ND	ND	ND	ND	1	101
015A	MW-11C	W	ND	11	ND	ND	ND	ND	1	106
016A	VW-1	W	1100,a	600	92	2.2	11	1.4	1	112
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc.	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
1710 Franklin Street, Ste. 200		Date Received: 06/01/06
Oakland, CA 94612	Client Contact: Bob Clark-Riddell	Date Extracted: 06/02/06-06/06/06
	Client P.O.:	Date Analyzed: 06/02/06-06/06/06

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0606008

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
017A	VW-2	W	1500,a	1600	140	3.3	24	19	1	105
018A	VW-3	W	5900,a	ND<35	230	4.5	270	63	3.3	96

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc.	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
1710 Franklin Street, Ste. 200		Date Received: 06/01/06
Oakland, CA 94612	Client Contact: Bob Clark-Riddell	Date Extracted: 06/05/06-06/07/06
	Client P.O.:	Date Analyzed: 06/05/06-06/07/06

Methyl tert-Butyl Ether*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 0606008

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS
001A	MW-1	W	6300	200	112
002A	MW-2	W	110	5	114
003A	MW-6A	W	5300,i	200	107
004A	MW-6B	W	16	1	115
006A	MW-7AA	W	21,000	1000	104
007A	MW-7A	W	770	25	110
008A	MW-7B	W	6.6	1	112
010A	MW-8A	W	18	1	112
011A	MW-9A	W	210	10	118
013A	MW-10A	W	4.7,i	1	105
015A	MW-11C	W	11	1	113
016A	VW-1	W	550	20	111
017A	VW-2	W	1600	50	107
018A	VW-3	W	15	2	96

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

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

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

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

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0606008

EPA Method: SW8021B/8015Cm	Extraction: SW5030B	BatchID: 21968	Spiked Sample ID: 0605650-009B

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)[£]	ND	60	100	101	0.380	113	100	12.0	70 - 130	70 - 130
MTBE	ND	10	98.9	100	1.32	97.2	99.1	1.93	70 - 130	70 - 130
Benzene	ND	10	80.8	92.6	13.5	88.5	91.3	3.11	70 - 130	70 - 130
Toluene	ND	10	82.4	92.4	11.4	85.4	88.8	3.98	70 - 130	70 - 130
Ethylbenzene	ND	10	90.1	91.4	1.46	89.9	90.9	1.10	70 - 130	70 - 130
Xylenes	ND	30	82	89.7	8.93	85.7	88.7	3.44	70 - 130	70 - 130
%SS:	95	10	101	101	0	102	103	0.522	70 - 130	70 - 130

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

NONE

BATCH 21968 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0606008-001A	6/01/06 7:45 AM	6/02/06	6/02/06 4:23 AM	0606008-001A	6/01/06 7:45 AM	6/02/06	6/02/06 8:56 PM
0606008-002A	6/01/06 7:10 AM	6/02/06	6/02/06 2:54 AM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0606008

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 21986** **Spiked Sample ID: 0606008-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	105	98	6.68	94.8	101	6.04	70 - 130	70 - 130
MTBE	ND	10	98	100	2.34	111	103	7.81	70 - 130	70 - 130
Benzene	ND	10	88.3	92.8	5.00	101	91.7	10.1	70 - 130	70 - 130
Toluene	ND	10	86.8	93.3	7.20	100	91.1	9.52	70 - 130	70 - 130
Ethylbenzene	ND	10	90.6	91.9	1.41	98.2	91.8	6.75	70 - 130	70 - 130
Xylenes	ND	30	89.3	86	3.80	85	85.3	0.391	70 - 130	70 - 130
%SS:	98	10	102	102	0	110	101	8.17	70 - 130	70 - 130

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

NONE

BATCH 21986 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0606008-003A	6/01/06 6:35 AM	6/02/06	6/02/06 4:52 AM	0606008-003A	6/01/06 6:35 AM	6/02/06	6/02/06 11:25 PM
0606008-004A	6/01/06 5:55 AM	6/02/06	6/02/06 9:56 PM	0606008-005A	6/01/06 5:05 AM	6/02/06	6/02/06 3:53 AM
0606008-006A	6/01/06 10:45 AM	6/02/06	6/02/06 5:22 AM	0606008-006A	6/01/06 10:45 AM	6/02/06	6/02/06 10:25 PM
0606008-007A	6/01/06 6:30 AM	6/02/06	6/02/06 7:21 AM	0606008-007A	6/01/06 6:30 AM	6/02/06	6/02/06 10:55 PM
0606008-008A	6/01/06 5:40 AM	6/03/06	6/03/06 1:24 AM	0606008-009A	6/01/06 5:05 AM	6/02/06	6/02/06 6:22 AM
0606008-010A	6/01/06 11:55 AM	6/02/06	6/02/06 6:51 AM	0606008-011A	6/01/06 11:25 AM	6/02/06	6/02/06 7:57 PM
0606008-012A	6/01/06 10:40 AM	6/02/06	6/02/06 8:30 PM	0606008-013A	6/01/06 1:20 PM	6/05/06	6/05/06 10:55 PM
0606008-014A	6/01/06 12:40 PM	6/06/06	6/06/06 5:41 AM	0606008-015A	6/01/06 8:35 AM	6/02/06	6/02/06 9:36 PM
0606008-016A	6/01/06 8:30 AM	6/02/06	6/02/06 10:06 AM	0606008-016A	6/01/06 8:30 AM	6/05/06	6/05/06 8:55 PM
0606008-017A	6/01/06 8:55 AM	6/02/06	6/02/06 10:36 AM	0606008-017A	6/01/06 8:55 AM	6/06/06	6/06/06 3:24 AM
0606008-018A	6/01/06 9:35 AM	6/05/06	6/05/06 11:55 PM				

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0606008

EPA Method: SW8260B	Extraction: SW5030B	BatchID: 22016	Spiked Sample ID: 0606060-006A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Methyl-t-butyl ether (MTBE)	ND	10	100	104	3.72	93.7	99.8	6.37	70 - 130	70 - 130
%SS1:	117	10	103	101	1.43	102	101	0.965	70 - 130	70 - 130

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

NONE

BATCH 22016 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0606008-001A	6/01/06 7:45 AM	6/05/06	6/05/06 7:23 PM	0606008-002A	6/01/06 7:10 AM	6/05/06	6/05/06 8:08 PM
0606008-003A	6/01/06 6:35 AM	6/05/06	6/05/06 8:53 PM	0606008-004A	6/01/06 5:55 AM	6/05/06	6/05/06 9:38 PM
0606008-006A	6/01/06 10:45 AM	6/05/06	6/05/06 11:50 PM				

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

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

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

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

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

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

DHS Certification No. 1644

JR QA/QC Officer

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0606008

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 22026** **Spiked Sample ID: 0606092-001B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Methyl-t-butyl ether (MTBE)	ND	10	92.2	90.9	1.45	94.8	95.7	0.933	70 - 130	70 - 130
%SS1:	104	10	97	95	1.86	102	101	1.75	70 - 130	70 - 130

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

NONE

BATCH 22026 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0606008-007A	6/01/06 6:30 AM	6/06/06	6/06/06 12:33 AM	0606008-008A	6/01/06 5:40 AM	6/06/06	6/06/06 1:17 AM
0606008-010A	6/01/06 11:55 AM	6/06/06	6/06/06 2:00 AM	0606008-011A	6/01/06 11:25 AM	6/06/06	6/06/06 2:50 AM
0606008-015A	6/01/06 8:35 AM	6/06/06	6/06/06 3:42 AM	0606008-016A	6/01/06 8:30 AM	6/06/06	6/06/06 4:31 AM
0606008-017A	6/01/06 8:55 AM	6/06/06	6/06/06 5:18 AM				

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

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

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

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

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

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

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0606008

EPA Method: SW8260B	Extraction: SW5030B	BatchID: 22074	Spiked Sample ID: 0606119-020C

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Methyl-t-butyl ether (MTBE)	ND	10	91.1	92.2	1.15	94.6	92.6	2.17	70 - 130	70 - 130
%SS1:	103	10	102	101	1.02	104	101	3.14	70 - 130	70 - 130

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

NONE

BATCH 22074 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0606008-013A	6/01/06 1:20 PM	6/07/06	6/07/06 10:45 PM	0606008-018A	6/01/06 9:35 AM	6/07/06	6/07/06 11:28 PM

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

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

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

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

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

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

DHS Certification No. 1644

QA/QC Officer

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0606008 **ClientID: PEO** **EDF: YES**

Report to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
TEL: (510) 836-3700
FAX: (510) 836-3709
ProjectNo: #1001.001207; Dublin Car Wash
PO:

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: 5 days
Date Received: 06/01/2006
Date Printed: 06/07/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0606008-001	MW-1	Water	6/1/06 7:45:00 AM	☐	A	A	A									
0606008-002	MW-2	Water	6/1/06 7:10:00 AM	☐	A	A										
0606008-003	MW-6A	Water	6/1/06 6:35:00 AM	☐	A	A										
0606008-004	MW-6B	Water	6/1/06 5:55:00 AM	☐	A	A										
0606008-005	MW-6C	Water	6/1/06 5:05:00 AM	☐	A											
0606008-006	MW-7AA	Water	6/1/06 10:45:00 AM	☐	A	A										
0606008-007	MW-7A	Water	6/1/06 6:30:00 AM	☐	A	A										
0606008-008	MW-7B	Water	6/1/06 5:40:00 AM	☐	A	A										
0606008-009	MW-7C	Water	6/1/06 5:05:00 AM	☐	A											
0606008-010	MW-8A	Water	6/1/06 11:55:00 AM	☐	A	A										
0606008-011	MW-9A	Water	6/1/06 11:25:00 AM	☐	A	A										
0606008-012	MW-9C	Water	6/1/06 10:40:00 AM	☐	A											
0606008-013	MW-10A	Water	6/1/06 1:20:00 PM	☐	A	A										
0606008-014	MW-10C	Water	6/1/06 12:40:00 PM	☐	A											
0606008-015	MW-11C	Water	6/1/06 8:35:00 AM	☐	A	A										

Test Legend:

1	G-MBTEX_W	2	MTBE_W	3	PREDF REPORT	4		5	
6		7		8		9		10	
11		12							

Prepared by: Kathleen Owen

Comments: MTBE conformation added 6/5/06

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

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0606008 **ClientID: PEO** **EDF: YES**

Report to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
TEL: (510) 836-3700
FAX: (510) 836-3709
ProjectNo: #1001.001207; Dublin Car Wash
PO:

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: 5 days
Date Received: 06/01/2006
Date Printed: 06/07/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0606008-016	VW-1	Water	6/1/06 8:30:00 AM	☐	A	A										
0606008-017	VW-2	Water	6/1/06 8:55:00 AM	☐	A	A										
0606008-018	VW-3	Water	6/1/06 9:35:00 AM	☐	A	A										

Test Legend:

1	G-MBTEX_W	2	MTBE_W	3	PREDF REPORT	4		5	
6		7		8		9		10	
11		12							

Prepared by: Kathleen Owen

Comments: MTBE conformation added 6/5/06

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

0606008 Peo

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ■ 5 DAY

EDF Required? (Yes) No

Report To: Bob Clark-Riddel Bill To: Pangea Environmental
Company: Pangea Environmental Services Inc.
1710 Franklin Street Suite 200
Oakland, CA 94612 E-Mail: bcr@pangeaenv.com
Tele: 510-836-3702 Fax: 510-836-3709
Project #: 1001.001.20 7 Project Name: Dublin Car Wash
Project Location: 7420 Dublin Blvd, Dublin, CA
Sampler Signature: Muskan Environmental Sampling

Analysis Request columns:
1. MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)
2. MTBE / BTEX ONLY (EPA 602 / 8021)
3. TPH as Diesel (8015)
4. Total Petroleum Oil & Grease (1664 / 5520 E/B&F)
5. Total Petroleum Hydrocarbons (418.1)
6. EPA 502.2 / 601 / 8010 / 8021 (HVOCs)
7. EPA 505/ 608 / 8081 (Cl Pesticides)
8. EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners
9. EPA 507 / 8141 (NP Pesticides)
10. EPA 515 / 8151 (Acidic Cl Herbicides)
11. EPA 524.2 / 624 / 8260 (VOCs)
12. Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2 – DCA, 1,2 – EDB, ethanol) by 8260B
13. If MTBE is detected by 8021 confirm by 8260B

	SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	HNO3	Other	1	2	3	4	5	6	7	8	9	10	11	12	13	Other	Comments
+	MW-1		6-1-06	7:45	3	VOA	X					X	X			X												⊗		Filter Samples for Metals analysis: Yes / No
+	MW-2		6-1-06	7:10																								⊗		
+5	MW-6A		6-1-06	6:35																								⊗		
+	MW-6B		6-1-06	5:55																								⊗		
+	MW-6C		6-1-06	5:05																										
+	MW-7AA		5-31-06	10:45																								⊗		
+	MW-7A		5-31-06	6:30																								⊗		
+	MW-7B		5-31-06	5:40																								⊗		
+	MW-7C		5-31-06	5:05																										
+	MW-8A		5-29-06	11:55																								⊗		
+	MW-9A		5-29-06	11:25																								⊗		
+5	MW-9C		5-29-06	10:40																										
+2	MW-10A		5-29-06	13:20																								⊗		
+	MW-10C		5-29-06	12:40																										
+	MW-11C		5-31-06	8:35	X	↑						X	X			X												⊗		

⊗ Confirmed added 6/5/06 5d.

Relinquished By:	Date:	Time:	Received By:
[signature]	6-1-06	2:07p	[signature]
Relinquished By:	Date:	Time:	Received By:

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

	VOAS	O&G	METALS	OTHER
PRESERVATION	✓			

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
		Date Received: 06/01/06
	Client Contact: Bob Clark-Riddell	Date Reported: 06/08/06
	Client P.O.:	Date Completed: 06/15/06

WorkOrder: 0606008

June 15, 2006

Dear Bob:

Enclosed are:

1). the results of **18** analyzed samples from your **#1001.001207; Dublin Car Wash project,**

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Best regards,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
		Date Received: 06/01/06
	Client Contact: Bob Clark-Riddell	Date Extracted: 06/05/06-06/07/06
	Client P.O.:	Date Analyzed: 06/05/06-06/07/06

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0606008

Lab ID	0606008-001A	0606008-002A	0606008-003A	0606008-004A	Reporting Limit for DF =1	
Client ID	MW-1	MW-2	MW-6A	MW-6B		
Matrix	W	W	W	W		
DF	200	5	200	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<100	ND<2.5	ND<100	ND	NA	0.5
t-Butyl alcohol (TBA)	ND<1000	ND<25	ND<1000	ND	NA	5.0
Diisopropyl ether (DIPE)	ND<100	ND<2.5	ND<100	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<100	ND<2.5	ND<100	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	6300	110	5300	16	NA	0.5
Surrogate Recoveries (%)						
%SS1:	112	114	107	115		
Comments			i			

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

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

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

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
		Date Received: 06/01/06
	Client Contact: Bob Clark-Riddell	Date Extracted: 06/05/06-06/07/06
	Client P.O.:	Date Analyzed: 06/05/06-06/07/06

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0606008

Lab ID	0606008-006A	0606008-007A	0606008-008A	0606008-010A	Reporting Limit for DF =1	
Client ID	MW-7AA	MW-7A	MW-7B	MW-8A		
Matrix	W	W	W	W		
DF	1000	25	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<500	ND<12	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND<5000	ND<120	ND	ND	NA	5.0
Diisopropyl ether (DIPE)	ND<500	ND<12	ND	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<500	ND<12	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	21,000	770	6.6	18	NA	0.5
Surrogate Recoveries (%)						
%SS1:	104	110	112	112		
Comments						

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

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

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

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc.	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
1710 Franklin Street, Ste. 200		Date Received: 06/01/06
Oakland, CA 94612	Client Contact: Bob Clark-Riddell	Date Extracted: 06/05/06-06/07/06
	Client P.O.:	Date Analyzed: 06/05/06-06/07/06

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0606008

Lab ID	0606008-011A	0606008-013A	0606008-015A	0606008-016A	Reporting Limit for DF =1	
Client ID	MW-9A	MW-10A	MW-11C	VW-1		
Matrix	W	W	W	W		
DF	10	1	1	20	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<5.0	ND	ND	12	NA	0.5
t-Butyl alcohol (TBA)	ND<50	ND	ND	ND<100	NA	5.0
Diisopropyl ether (DIPE)	ND<5.0	ND	ND	ND<10	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	ND	ND	ND<10	NA	0.5
Methyl-t-butyl ether (MTBE)	210	4.7	11	550	NA	0.5
Surrogate Recoveries (%)						
%SS1:	118	105	113	111		
Comments		i				

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

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

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

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Pangea Environmental Svcs., Inc.	Client Project ID: #1001.001207; Dublin Car Wash	Date Sampled: 06/01/06
1710 Franklin Street, Ste. 200		Date Received: 06/01/06
Oakland, CA 94612	Client Contact: Bob Clark-Riddell	Date Extracted: 06/05/06-06/07/06
	Client P.O.:	Date Analyzed: 06/05/06-06/07/06

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0606008

			Reporting Limit for DF =1	
Lab ID	0606008-017A	0606008-018A		
Client ID	VW-2	VW-3		
Matrix	W	W		
DF	50	2	S	W
Compound	**Concentration**		ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<25	ND<1.0	NA	0.5
t-Butyl alcohol (TBA)	ND<250	ND<10	NA	5.0
Diisopropyl ether (DIPE)	ND<25	ND<1.0	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<25	ND<1.0	NA	0.5
Methyl-t-butyl ether (MTBE)	1600	15	NA	0.5
Surrogate Recoveries (%)				
%SS1:	107	96		
Comments				

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

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

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

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0606008

EPA Method: SW8260B	Extraction: SW5030B	BatchID: 22016	Spiked Sample ID: 0606060-006A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	103	105	1.34	96.6	102	5.14	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	110	103	6.34	99.1	94.8	4.46	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	106	108	1.80	101	105	3.53	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	96.8	99.7	2.95	91	95.9	5.21	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	100	104	3.72	93.7	99.8	6.37	70 - 130	70 - 130
%SS1:	117	10	103	101	1.43	102	101	0.965	70 - 130	70 - 130

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

NONE

BATCH 22016 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0606008-001A	6/01/06 7:45 AM	6/05/06	6/05/06 7:23 PM	0606008-002A	6/01/06 7:10 AM	6/05/06	6/05/06 8:08 PM
0606008-003A	6/01/06 6:35 AM	6/05/06	6/05/06 8:53 PM	0606008-004A	6/01/06 5:55 AM	6/05/06	6/05/06 9:38 PM
0606008-006A	6/01/06 10:45 AM	6/05/06	6/05/06 11:50 PM				

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

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

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

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

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0606008

EPA Method: SW8260B	Extraction: SW5030B		BatchID: 22026			Spiked Sample ID: 0606092-001B				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	94	93.7	0.384	97.5	98.9	1.36	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	104	103	1.09	98.8	97.7	1.06	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	101	101	0	104	104	0	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	89.7	89.5	0.268	93.1	93.6	0.490	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	92.2	90.9	1.45	94.8	95.7	0.933	70 - 130	70 - 130
%SS1:	104	10	97	95	1.86	102	101	1.75	70 - 130	70 - 130

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

NONE

BATCH 22026 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0606008-007A	6/01/06 6:30 AM	6/06/06	6/06/06 12:33 AM	0606008-008A	6/01/06 5:40 AM	6/06/06	6/06/06 1:17 AM
0606008-010A	6/01/06 11:55 AM	6/06/06	6/06/06 2:00 AM	0606008-011A	6/01/06 11:25 AM	6/06/06	6/06/06 2:50 AM
0606008-015A	6/01/06 8:35 AM	6/06/06	6/06/06 3:42 AM	0606008-016A	6/01/06 8:30 AM	6/06/06	6/06/06 4:31 AM
0606008-017A	6/01/06 8:55 AM	6/06/06	6/06/06 5:18 AM				

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

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

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

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

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0606008

EPA Method: SW8260B	Extraction: SW5030B	BatchID: 22074	Spiked Sample ID: 0606119-020C

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	91.9	93.6	1.84	96.9	95.9	1.03	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	90.5	105	15.1	101	103	1.83	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	96.6	98.5	1.93	103	102	0.961	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	87.9	89.6	1.97	91.5	90.8	0.846	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	91.1	92.2	1.15	94.6	92.6	2.17	70 - 130	70 - 130
%SS1:	103	10	102	101	1.02	104	101	3.14	70 - 130	70 - 130

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

NONE

BATCH 22074 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0606008-013A	6/01/06 1:20 PM	6/07/06	6/07/06 10:45 PM	0606008-018A	6/01/06 9:35 AM	6/07/06	6/07/06 11:28 PM

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

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

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

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

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR
EDF Required? Yes / No

Report To: Bob Clark-Riddel Bill To: Pangea Environmental
Company: Pangea Environmental Services Inc.
1710 Franklin Street Suite 200
Oakland, CA 94612 E-Mail: bcr@pangeaenv.com
Tele: 510-836-3702 Fax: 510-836-3709
Project #: 1001.001.207 Project Name: Dublin Car Wash
Project Location: [redacted] 7420 Dublin Blvd, Dublin, CA
Sampler Signature: Muskan Environmental Sampling

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
VW-1		6-1-06	8:30	3	VOA	X					X	X		
VW-2		6-1-06	8:55	"	"	X					X	X		
VW-3		6-1-06	9:35	"	"	X					X	X		

Analysis Request

MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2 – DCA, 1,2 – EDB, ethanol) by 8260B	If Benzene is detected by 8021 confirm by 8260B	Other	Other	Other	Comments
X																Filter Samples for Metals analysis: Yes / No
X																
X																

Relinquished By:	Date:	Time:	Received By:
	6-1-06	2:00p.	
Relinquished By:	Date:	Time:	Received By:

0001600 PEO

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR
EDF Required? Yes No

Report To: Bob Clark-Riddel Bill To: Pangea Environmental
Company: Pangea Environmental Services Inc.
1710 Franklin Street Sutle 200
Oakland, CA 94612 E-Mail: bcr@pangeaenv.com
Tele: 510-836-3702 Fax: 510-836-3709
Project #: 1001.001.207 Project Name: Dublin Car Wash
Project Location: 7420 Dublin Blvd. Dublin, CA
Sampler Signature: Muskan Environmental Sampling

	SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2 – DCA, 1,2 – EDB, ethanol) by 8260B	If MtBe is detected by 8021 confirm by 8260B	Other	Comments
1	MW-1		6-1-06	7:45	3	VOA	X					X	X			X												⊗			
1	MW-2		6-1-06	7:10																								⊗			
1 5	MW-6A		6-1-06	6:35																								⊗			
1	MW-6B		6-1-06	5:55																								⊗			
1	MW-6C		6-1-06	5:05																								⊗			
1	MW-7AA		5-31-06	10:45																								⊗			
1	MW-7A		5-31-06	6:30																								⊗			
1	MW-7B		5-31-06	5:40																								⊗			
1	MW-7C		5-31-06	5:05																								⊗			
1	MW-8A		5-29-06	11:55																								⊗			
1	MW-9A		5-29-06	11:25																								⊗			
1 5	MW-9C		5-29-06	10:40																								⊗			
1 2	MW-10A		5-29-06	13:20																								⊗			
1	MW-10C		5-29-06	12:40																								⊗			
1	MW-11C		5-31-06	8:35	*											X												⊗			

Filter Samples for Metals analysis: Yes / No

⊗ Conformation added 6/5/06 Sd.

Relinquished By:	Date:	Time:	Received By:
	6-1-06	2:07p	
Relinquished By:	Date:	Time:	Received By:

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

PRESERVATION	VOAS	O&G	METALS	OTHER
	✓			

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1001.001; Dublin Auto Wash	Date Sampled: 07/07/06
		Date Received: 07/11/06
	Client Contact: Morgan Gillies	Date Reported: 07/17/06
	Client P.O.:	Date Completed: 07/17/06

WorkOrder: 0607137

July 17, 2006

Dear Morgan:

Enclosed are:

1). the results of **1** analyzed sample from your **#1001.001; Dublin Auto Wash project,**

2). a QC report for the above sample

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

4). a bill for analytical services.

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

Best regards,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc.	Client Project ID: #1001.001; Dublin Auto Wash	Date Sampled: 07/07/06
1710 Franklin Street, Ste. 200		Date Received: 07/11/06
Oakland, CA 94612	Client Contact: Morgan Gillies	Date Extracted: 07/14/06-07/15/06
	Client P.O.:	Date Analyzed: 07/14/06-07/15/06

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0607137

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-3A	W	4200,a	32,000	340	27	75	79	33	86
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0607137

EPA Method: SW8021B/8015Cm	Extraction: SW5030B	BatchID: 22606	Spiked Sample ID: 0607133-001A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	120	107	10.9	107	105	2.08	70 - 130	70 - 130
MTBE	ND	10	105	103	1.21	95.3	98.3	3.10	70 - 130	70 - 130
Benzene	ND	10	96.9	96.4	0.499	93.7	94.7	1.00	70 - 130	70 - 130
Toluene	ND	10	88.9	87.8	1.22	87.3	88.5	1.39	70 - 130	70 - 130
Ethylbenzene	ND	10	94.1	97.1	3.14	94.6	95.8	1.33	70 - 130	70 - 130
Xylenes	ND	30	87.3	92	5.20	92.7	96.3	3.88	70 - 130	70 - 130
%SS:	97	10	91	94	2.92	89	91	2.09	70 - 130	70 - 130

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

NONE

BATCH 22606 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0607137-001A	7/07/06 12:55 PM	7/14/06	7/14/06 10:22 AM	0607137-001A	7/07/06 12:55 PM	7/15/06	7/15/06 3:09 AM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0607137 **ClientID: PEO** **EDF: NO**

Report to:
Morgan Gillies
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
TEL: (510) 836-3700
FAX: (510) 836-3709
ProjectNo: #1001.001; Dublin Auto Wash
PO:

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: **5 days**
Date Received: **07/11/2006**
Date Printed: **07/11/2006**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0607137-001	MW-3A	Water	7/7/06 12:55:00 PM	☐	A											

Test Legend:

1	G-MBTEX_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Rosa Venegas

Comments:

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

PEO 0607137

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Morgan Gillies	Bill To: Pangea
Company: Pangea Environmental Services, Inc.	
1710 Franklin Street, Suite 200, Oakland, CA 94612	E-Mail: mgillies@pangeaenv.com
Tele: (510) 836-3702	Fax: (510) 836-3709
Project #: 1001.001	Project Name: Dublin Auto Wash
Project Location: 7240 Dublin Blvd., Dublin, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)	Other	Other	Other	Comments
MW-3A		7/7/06	1255	3	HCl VOAs	X					X	X			X																			Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
	7/11	9:48	VEA - Envirotech
Relinquished By: Enviro-Tech	Date: 7/12	Time: 1-10 PM	Received By: MAI
Relinquished By:	Date:	Time:	Received By:

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

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION pH<2