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Environmental Health



January 31, 2009

VIA ALAMEDA COUNTY FTP SITE

Mr. Paresh Khatri
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Groundwater Monitoring Report - Fourth Quarter 2008

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California
ACEH Case No. 304

Dear Mr. Khatri:

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. has prepared this *Groundwater Monitoring Report – Fourth Quarter 2008*. The report describes groundwater monitoring, sampling, and other site activities.

If you have any questions or comments, please call me at (510) 435-8664.

Sincerely,
Pangea Environmental Services, Inc.

A handwritten signature in blue ink that reads "Bob Clark-Riddell".

Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring Report – Fourth Quarter 2008*

cc: Mr. Hooshang Hadjian, 2108 San Ramon Valley Blvd, San Ramon, CA 94583
Mr. Jim Lange, 6500 Dublin Blvd., Suite 202, Dublin, CA 94568
SWRCB Geotracker (electronic copy)



GROUNDWATER MONITORING REPORT – FOURTH QUARTER 2008

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

January 31, 2009

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:

Bob Clark-Riddell for
Morgan Gillies
Project Manager



Bob Clark-Riddell
Bob Clark-Riddell, P.E.
Principal Engineer

Groundwater Monitoring Report – Fourth Quarter 2008
7240 Dublin Boulevard
Dublin, California
January 31, 2009

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.

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 and conducted further characterization of the site using electrical conductivity logging to identify potential water-bearing zones. In November 2004, Pangea commenced coordination of groundwater monitoring and corrective action for the site. To delineate the contamination detected during SOMA's investigation, Pangea installed additional monitoring wells with shorter screen lengths in identified water-bearing zones in 2006. Pangea also drilled three soil borings (SB-1, SB-1A and SB-2) to help evaluate subsurface conditions downgradient of the 1997 release and north of the site, and the potential for contamination migration along the 18-inch sanitary sewer line in Dublin Boulevard.

The site subsurface consists primarily of clay, sandy clay, and clayey sand. The shallower soil (<34 ft bgs) is predominantly clay and sandy clay with thin lenses of clayey sand, while the deeper soil (>34 ft bgs) contains clayey sand units of apparently higher permeability than shallower materials. 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 than existing wells 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). The well screen in MW-3A was installed at a shallower depth than the other A-zone wells to intercept the SPH previously observed in abandoned well MW-3.

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7240 Dublin Boulevard
Dublin, California
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The shallower (AA, A and B) water-bearing zones primarily consist of thin lenses of clayey sand within sandy clay, while higher permeability silty sand and clayey sand are the predominant soil types constituting the deeper (C) water-bearing zone. Vapor wells VW-1 through VW-3 are screened from approximately 3 to 9 ft bgs above the upper shallow seasonal water-bearing zone, which appears to be a perched 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 contaminant concentration and groundwater elevation data. To compare the elevation of surface water in the flood control channel with site groundwater, point C-1 was surveyed on the roadway overpass above the channel. Well construction details are presented in Table 2.

An interim remedial action was conducted by Pangea in July 2006 by extracting approximately 40 gallons of impacted liquid from wells MW-3A and MW-7AA with a vacuum truck. In November 2007, Pangea conducted a five-day dual-phase extraction (DPE) test (and interim remediation event) to evaluate the effectiveness of DPE as remedial technique and to provide additional source removal. On December 9, 2008, Pangea submitted an *Interim Remediation Report and Corrective Action Plan* (CAP) describing DPE testing and proposing short-term dual phase extraction (DPE) as the most appropriate and cost-effective technique for site remediation. In a letter dated January 16, 2009, ACEH approved short-term DPE for the site.

GROUNDWATER MONITORING AND SAMPLING

On November 13 and 14, 2008, groundwater monitoring and sampling was conducted at the site. All well caps were removed the day before monitoring to allow water levels to stabilize. Groundwater samples were obtained from groundwater monitoring wells MW-1, MW-2, MW-3A, MW-6A, MW-6B, MW-7AA, MW-7A, MW-7B, MW-8A, MW-9A and MW-10A, and vapor wells VW-1, VW-2 and VW-3. Sampling of the vapor wells was initially requested in a February 9, 2006 letter from Alameda County Environmental Health (ACEH). The depth to water at survey point C-1 above the flood control channel was also measured. Monitoring and sampling of deep monitoring wells MW-6C, MW-7C, MW-9C, MW-10C and MW-11C was discontinued starting the second quarter 2007, as approved by Barney Chan of ACEH in a May 14, 2007 telephone conversation, because no significant contamination had been detected in these deeper site wells during four consecutive quarters.

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. 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-

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of-custody to a State-certified analytical laboratory. Purge water was temporarily stored onsite in DOT-approved 55-gallon drums. Groundwater monitoring field data sheets are presented in Appendix B.

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, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. Samples were analyzed by McCampbell Analytical, Inc. of Pittsburg, California, a State-certified laboratory. The laboratory analytical report is included in Appendix B. DO concentrations ranged from 0.44 mg/L (well MW-6A) to 2.79 mg/L (vapor well VW-3).

Groundwater Flow Direction

Based on depth-to-water data collected November 13, 2008, groundwater elevations in shallow and intermediate zones are shown on Figure 2 and discussed below. Groundwater flow at the site is complex due to the combined effects of a generally upward gradient, the nearby creek/flood control channel, seasonal fluctuations in flow direction, and possible influences of the city sewer line located beneath Dublin Boulevard.

Vertical Gradient Evaluation: A comparison of clustered well pairs screened at different depths indicates that a consistent upward gradient component of approximately 0.11 ft/ft is present between the shallow and intermediate water-bearing zones at the portion of the site north of the dispenser islands (MW-6A and 6B), and a significantly smaller upward gradient is present southwest of the dispenser islands (MW-7A and MW-7B), as shown below on Table A. A downward gradient appears to be present between the upper shallow, AA-zone vapor wells (VW-1, VW-2 and VW-3) and the shallow A-zone monitoring wells, although this apparent gradient may be due to perched groundwater.

Table A – Vertical Gradient Evaluation using Paired Monitoring Wells

Monitoring Well Pair	Groundwater Elevation	Mean Screen Depth	Calculated Vertical Gradient
MW-6A	320.08	17.5	
MW-6B	321.28	28	
<i>Difference</i>	<i>1.20</i>	<i>10.5</i>	<i>0.11 (upwards)</i>
MW-7A	320.44	18	
MW-7B	320.54	28	

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<i>Difference</i>	0.10	10	0.01 (<i>upwards</i>)
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Horizontal Gradient Evaluation: Depth-to-water measurements collected during prior monitoring events indicate that the horizontal component of the groundwater flow direction to the north of the site has been consistently *southward to southeastward* for the *shallow* wells, but gradient directions in the southern portion of the site have fluctuated significantly, possibly due to the influence of the nearby flood control channel. As shown on Figure 2, the horizontal component of the groundwater flow direction in the *shallow* wells at the site for the current monitoring event appears to converge to the northeast along Dublin Boulevard and is possibly influenced by permeable backfill around the sanitary sewer line beneath Dublin Boulevard. The groundwater flow direction for the shallow water-bearing zone may also be affected by surface water infiltration from the onsite car wash. The horizontal component of groundwater flow in the *intermediate depth* wells could not be determined since only two wells are screened at that depth.

Conclusion: The primary observation regarding the piezometric surface is that a moderately well-defined upward gradient is present in wells north of the dispenser islands. Historical depth-to-water and groundwater elevation data for the site are presented in Table 1.

Hydrocarbon Distribution in Groundwater

No separate-phase hydrocarbons (SPH) were detected in site wells this quarter. SPH was previously detected in MW-3 and replacement well MW-3A, but has not been detected in MW-3A since May 2006, shortly after well installation. A brief interim remedial action conducted on July 7, 2006, and consisting of removal of approximately 40 gallons of impacted liquid from well MW-3A using a vacuum truck, may have improved site conditions near well MW-3A. Site conditions were also likely improved by the five-day DPE test/removal event conducted in November 2007 on source area wells MW-3A, MW-6A, MW-7A and MW-7AA. Hydrocarbon concentrations in wells MW-3A, MW-6A and MW-7A generally increased after the November 2007 DPE testing and have now returned to near or below pre-test levels. Hydrocarbon concentrations generally show stable to decreasing trends in all site wells, although concentrations remain elevated in select source area wells.

Hydrocarbon contamination is concentrated in the upper shallow (AA) and shallow (A) water-bearing zones in the vicinity of the fuel dispensers, as shown in Table 1 and on Figure 2. Vapor well VW-3, located north of the dispenser islands, had the highest TPHg (13,000 µg/L) concentration. Monitoring well MW-7AA had the highest benzene concentration at 1,100 µg/L. No petroleum hydrocarbons were detected above reporting limits in either of the two sampled intermediate-depth B-zone wells.

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Fuel Oxygenate Distribution in Groundwater

MTBE was detected above reporting limits in several wells, as shown in Table 1 and on Figure 2. The highest MTBE concentration was in source area well MW-7AA (19,000 µg/L). Historic high MTBE concentrations were detected in well VW-3 (170 µg/L) and in well MW-8A (110 µg/L). Additionally, historic low MTBE concentrations were detected in well MW-2 (77 µg/L) and in well VW-1 (46 µg/L). MTBE concentrations in other sampled wells were within historic limits or trends.

MTBE concentrations in well MW-1 had been steadily increasing over a three-year period before reaching a historic high of 8,400 µg/L during the fourth quarter 2006 monitoring event, but have decreased substantially since then (<5.0 µg/L this quarter). The concentration reductions in well MW-1 may be due to interim remediation, MTBE migration from the area, or natural attenuation.

OTHER SITE ACTIVITIES

Proposed Groundwater Monitoring Program Reductions

To help control project cost per Cleanup Fund request on October 23, 2008, Pangea proposed groundwater monitoring frequency reductions in the *Groundwater Monitoring Report – Third Quarter 2008* for the subject site. In a letter dated January 16, 2009, ACEH concurred with Pangea's recommendation to reduce sampling frequency for several site wells. The revised groundwater monitoring program is presented in Appendix A and will include quarterly monitoring of six (6) key groundwater monitoring wells (MW-1, MW-2, MW-3A, MW-6A, MW-7AA, and MW-8A) and annual monitoring (first quarter of each year) of all sixteen (16) site wells located in the upper, shallow (AA-zone), shallow (A-zone), and/or intermediate-depth (B-zone) groundwater zones. Pangea has discontinued sampling of all deep groundwater monitoring wells (MW-6C, MW-7C, MW-9C, MW-10C and MW-11C) with ACEH approval. Pangea will summarize groundwater monitoring activities and results in a groundwater monitoring report.

Additional Site Remediation

On January 16, 2009, ACEH approved implementation of short-term DPE as described in the *Interim Remediation Report and Corrective Action Plan* (CAP) dated December 9, 2008. Upon completion of the public participation process, the CAP will finalized and implemented.

Electronic Reporting

The report, laboratory data, and other applicable information will be uploaded to the State Water Resource Control Board's Geotracker database.

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7240 Dublin Boulevard
Dublin, California
January 31, 2009

ATTACHMENTS

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour and Hydrocarbon Concentration Map – Shallow

Table 1 – Groundwater Elevation and Analytical Data

Table 2 – Well Construction Details

Appendix A – Groundwater Monitoring Program

Appendix B – Groundwater Monitoring Field Data Sheets

Appendix C – Laboratory Analytical Results

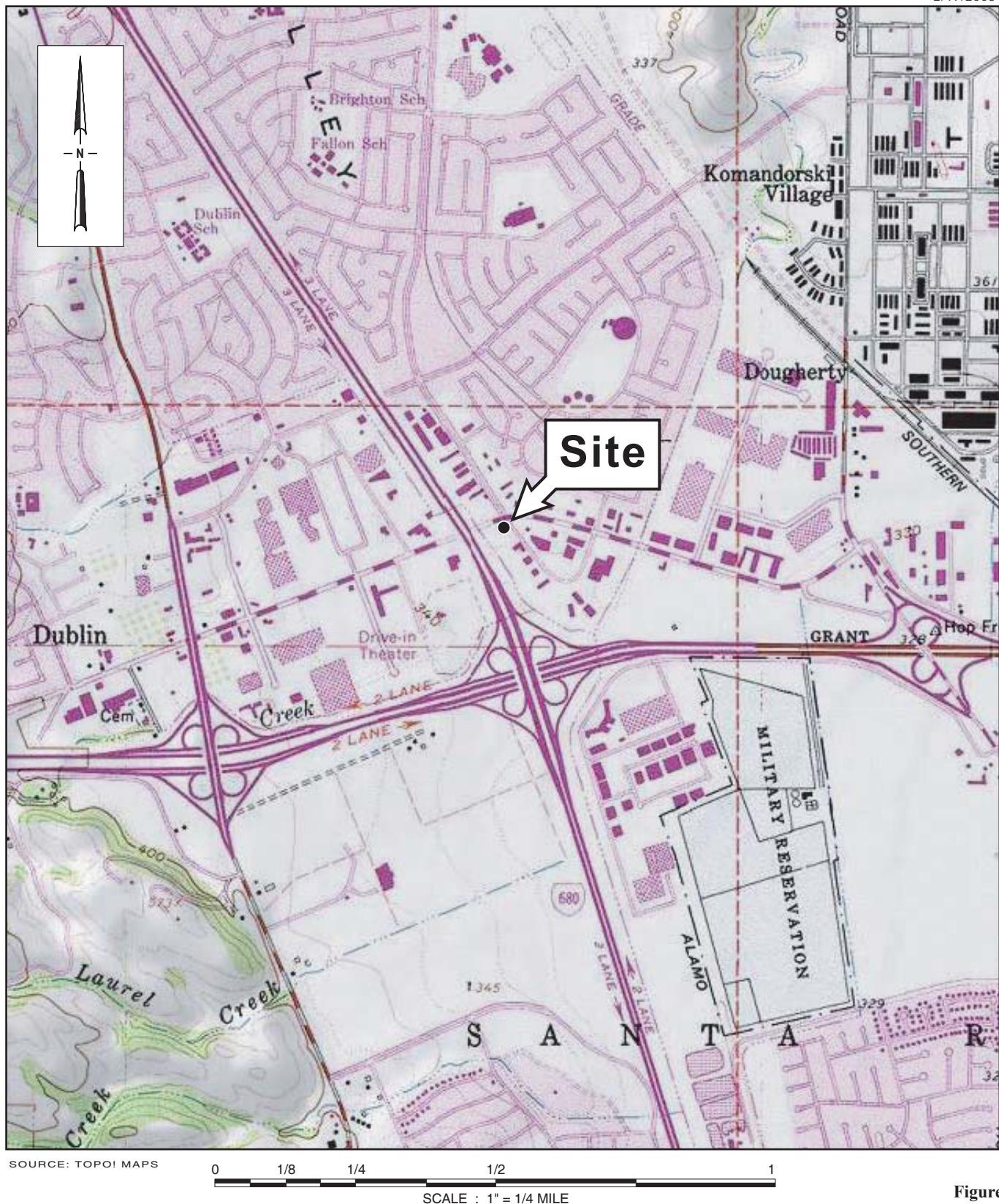
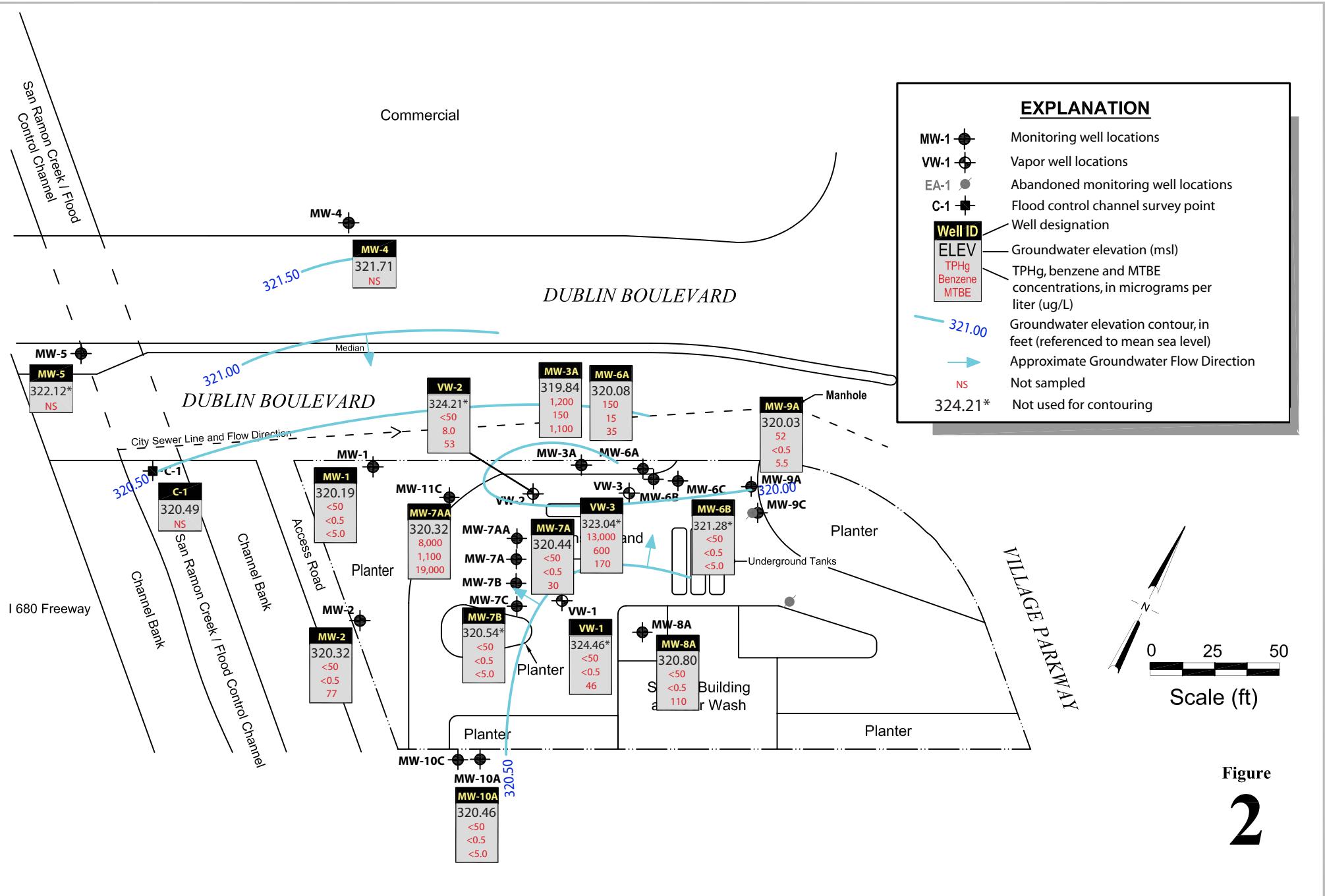


Figure
1

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California



Site Location Map



Pangea

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 →											
Surface Water (Flood Control Channel)											
C-1 332.89	08/17/06 11/24/06 02/21/07 05/15/07 08/28/07 12/21/07 02/26/08 05/21/08 08/13/08 11/13/08	11.60 12.10 12.10 12.05 11.90 12.16 12.21 12.40 11.95 12.40	321.29 320.79 320.79 320.84 320.99 320.73 320.68 320.49 320.94 320.49	-- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- --	-- -- -- -- -- -- -- -- -- --	Gauge data - flood control channel	
Upper Shallow (AA-Zone) Wells											
MW-7AA 330.67	05/31/06 07/07/06 08/17/06 11/24/06 02/21/07 05/15/07 08/28/07 12/21/07 02/26/08 05/21/08 08/13/08 11/13/08	9.18 9.15 8.75 9.84 9.60 10.20 10.20 10.09 8.96 10.28 10.38 10.35	321.49 321.52 321.92 320.83 321.07 320.47 320.47 320.58 321.71 320.39 320.29 320.32	12,000 -- 25,000 27,000 18,000 11,000 4,500 3,700 5,400 22,000 3,900 8,000	1,000 -- 2,200 3,400 2,400 1,500 720 550 970 2,700 510 1,100	410 -- 210 1,100 670 200 520 32 72 19 150 20	180 -- 780 1,300 200 520 73 74 320 100 290	1,600 -- 1,400 3,400 2,800 1,100 100 330 15,000 440 280	23,000 (21,000) -- 36,000(42,000) 37,000 41,000 47,000 18,000 12,000 15,000 28,000 15,000 19,000	0.44 -- 0.24 0.33 0.58 0.49 0.33 0.58 0.74 0.71 0.77 0.80	TAME, TBA, DIPE, ETBE=ND
VW-1 330.43	02/21/06 06/01/06 07/07/06 08/17/06 11/24/06 02/21/07 05/15/07 08/28/07 12/21/07 02/26/08 05/21/08 08/13/08 11/13/08	7.95 7.89 7.71 7.65 7.75 7.81 7.94 8.07 8.20 8.20 8.21 8.27 5.97	322.48 322.54 322.72 322.78 322.68 322.62 322.49 322.36 322.23 322.23 322.22 322.16 324.46	860 1,100 -- -- -- 620 2,000 2,400 -- -- -- -- <50	120 92 -- -- -- 52 270 400 -- -- -- -- <0.5	1.4 2.2 -- -- -- 4.3 6.4 4.6 -- -- -- -- <0.5	32 11 -- -- -- <0.5 1.2 <0.5 -- -- -- -- <0.5	4.4 1.4 -- -- -- 2.7 15 23 -- -- -- -- 46	390 (440) 600 (550) -- -- -- 340 720 610 -- -- -- -- 1.10	1.97 0.11 TAME=12µg/L, TBA,DIPE,ETBE=ND	
VW-2 330.17	02/21/06 06/01/06 07/07/06 08/17/06 11/24/06 02/21/07 05/15/07 08/28/07 12/21/07 02/26/08 05/21/08 08/13/08 11/13/08	6.01 6.17 7.02 7.23 5.55 6.22 7.54 7.82 4.44 4.56 7.65 7.92 5.96	324.16 324.00 323.15 322.94 324.62 323.95 322.63 322.35 325.73 325.61 322.52 322.25 324.21	1,600 1,500 140 --> <50 --> 430 1,200 <50 <50 300 --> <50	150 140 -- -- 5.7 <0.5 40 170 <0.5 <0.5 28 --> 8.0	2.7 3.3 -- -- <0.5 <0.5 1.5 5.0 <0.5 <0.5 1.7 --> <0.5	55 24 -- -- <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 0.97 --> <0.5	20 19 -- -- <0.5 <0.5 1.0 20 <0.5 <0.5 0.97 --> 53	1,700 (1,600) 1,600 (1,600) -- -- 260 <5.0 470 160 21 <45 --> 0.97	1.97 0.29 TAME, TBA, DIPE, ETBE=ND	
VW-3 330.49	02/21/06 06/01/06 07/07/06 08/17/06 11/24/06 02/21/07 05/15/07 08/28/07 12/21/07 02/26/08 05/21/08 08/13/08 11/13/08	6.10 6.22 7.02 4.44 4.44* 6.15 6.15 6.87 7.13 4.44 6.09 7.65 7.92 7.45	324.39 324.27 323.15 326.05 326.09 324.34 324.34 323.62 323.36 325.73 324.40 322.52 322.25 323.04	8,900 5,900 230 --> 120 7,600 310 8,800 5,600 --> 10,000 270 3,800 9,300 13,000	390 4.5 270 --> 1.7 9.9 270 260 270 320 --> 5.9 320 400 600	29 4.5 270 --> 39 270 3.0 130 110 150 68 32 87 9.6	490 63 --> --> 30 420 20 160 110 140 130 47 60 220	650 <35 (15) --> --> --> --> --> --> --> --> --> --> --> 120	<50 --> --> --> --> --> --> --> --> --> --> --> --> 170	2.28 0.21 TAME, TBA, DIPE, ETBE=ND	
Shallow (A-Zone) Wells											
MW-1 333.66	10/04/94 11/30/94 03/02/95 06/07/95 09/26/95 12/28/95 02/29/96 06/27/96 09/12/96 03/31/97 12/23/98	12.8 12.38 12.88 12.58 13.15 13.09 12.17 12.95 13.11 12.99 13.87	320.76 321.18 320.68 320.98 320.41 320.47 321.39 320.61 320.55 320.67 <50	2,100 1,500 2,600 710 1,100 750 250 710 300 <200 <50	150 210 510 160 140 96 17 72 53 4.1 <50	170 17 160 <2.0 1.4 2.5 17 <2.0 <0.5 <2.0 <0.5	61 73 160 45 92 61 18 92 32 4.8 <0.5	320 130 <10 <2.0 1.8 7.4 0.81 2.2 0.65 <2.0 <0.5	-- -- -- -- -- 37 9 --> --> --> -->	-- -- -- -- -- 3200	

Pangea

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 ← μg/L→	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
	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		
MW-1 (cont'd)	02/28/02	12.7	320.96	<50	<0.5	<0.5	<0.5	<0.5	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)		
	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	--	--	--	--	--	--	--	
	08/17/06	11.93	321.76	<250	<2.5	<2.5	<2.5	<2.5	7,700 (9,100)	0.43	
	11/24/06	13.01	320.68	<250	<2.5	<2.5	<2.5	<2.5	8,400	0.29	
	02/21/07	12.91	320.78	<50	<0.5	<0.5	<0.5	<0.5	3,600	0.24	
	05/15/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	2,500	0.29	
	08/28/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	170	0.40	
	12/21/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.68	
	02/26/08	12.60	321.09	<50	<0.5	<0.5	<0.5	<0.5	7.0	0.86	
	05/21/08	13.45	320.24	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.94	
	08/13/08	13.37	320.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.91	
	11/13/08	13.50	320.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.94	
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)	0.90	
	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	--	--	--	--	--	--	--	
	08/17/06	8.21	321.27	<50	<0.5	<0.5	<0.5	<0.5	230(230)	0.30	
	11/24/06	8.87	320.61	<50	<0.5	<0.5	<0.5	<0.5	760	0.24	
	02/21/07	8.80	320.68	<50	<0.5	<0.5	<0.5	<0.5	1,100	0.21	
	05/15/07	8.94	320.54	<50	<0.5	<0.5	<0.5	<0.5	1,400	0.25	
	08/28/07	8.83	320.65	<50	<0.5	<0.5	<0.5	<0.5	1,800	0.33	
	12/21/07	8.93	320.55	<50	<0.5	<0.5	<0.5	<0.5	1,700	0.49	
	02/26/08	8.49	320.99	<50	<0.5	<0.5	<0.5	<0.5	590	0.51	
	05/21/08	9.06	320.42	<50	<0.5	<0.5	<0.5	<0.5	230	0.67	
	08/13/08	8.89	320.59	<50	<0.5	<0.5	<0.5	<0.5	190	0.77	
	11/13/08	9.16	320.32	<50	<0.5	<0.5	<0.5	<0.5	77	0.86	
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	--	
	08/17/06	9.56	321.83	6,200	410	68	100	650	28,000(34,000)	0.19	
	11/24/06	10.73	320.66	2,100	190	11	72	220	7,900	0.10	
	02/21/07	10.52	320.87	7,100	890	28	440	470	8,400	0.17	
	05/15/07	11.46	319.93	1,800	210	11	96	88	3,500	0.25	
	08/28/07	11.62	319.77	1,900	260	6.9	110	74	3,400	0.28	
	12/21/07	11.33	320.06	4,700	570	160	120	970	2,800	0.54	
	02/26/08	10.25	321.14	7,200	550	32	440	690	1,800	0.49	
	05/21/08	11.52	319.87	1,600	130	2.9	40	94	700	0.55	
	08/13/08	11.62	319.77	2,900	280	3.4	52	56	1,300	0.52	
	11/13/08	11.55	319.84	1,200	150	3.5	22	31	1,100	0.64	

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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 ↔ μg/L	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE ↔	Dissolved Oxygen mg/L	Notes
MW-4 <i>332.63</i>	03/01/96	9.9	322.74	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	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	
	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	
<i>332.64</i>	05/29/06	10.33	322.31		SAMPLED ANNUALLY					--	
	07/07/06	10.52	322.12	--	--	--	--	--	--	--	
	08/17/06	10.45	322.19	--	--	--	--	--	--	--	
	11/24/06	10.95	321.69	--	--	--	--	--	--	0.22	
	02/21/07	10.71	321.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.40	
	05/15/07	11.24	321.40	--	--	--	--	--	--	--	
	08/28/07	11.42	321.22	--	--	--	--	--	--	0.52	
	12/21/07	11.26	321.38	--	--	--	--	--	--	0.81	
	02/26/08	10.12	322.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.06	
	05/21/08	11.30	321.34	--	--	--	--	--	--	0.98	
	08/13/08	11.23	321.41	--	--	--	--	--	--	0.71	
	11/13/08	10.93	321.71	--	--	--	--	--	--	--	
MW-5 <i>333.47</i>	03/01/96	10.62	322.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	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	323.83	<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	
<i>333.13</i>	11/27/05	10.43	322.61		SAMPLED ANNUALLY					1.19	
	02/21/06	10.32	322.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.48/0.76	
	05/29/06	10.41	322.72		SAMPLED ANNUALLY					--	
	07/07/06	10.46	322.67	--	--	--	--	--	--	--	
	08/17/06	10.49	324.19	--	--	--	--	--	--	--	
	11/24/06	10.92	322.21	--	--	--	--	--	--	0.27	
	02/21/07	10.90	322.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73	
	05/15/07	10.97	322.16	--	--	--	--	--	--	--	
	08/28/07	11.07	322.06	--	--	--	--	--	--	0.55	
	12/21/07	10.80	322.33	--	--	--	--	--	--	0.97	
	02/26/08	10.38	322.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.01	
	05/21/08	10.97	322.16	--	--	--	--	--	--	0.95	
	08/13/08	10.98	322.15	--	--	--	--	--	--	0.99	
	11/13/08	11.01	322.12	--	--	--	--	--	--	--	
MW-6A <i>331.81</i>	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
	07/07/06	10.15	321.66	--	--	--	--	--	--	--	
	08/17/06	9.69	322.12	860	55	3.1	31	41	5,300(6,200)	0.49	
	11/24/06	11.10	320.71	330	14	<2.5	11	3.4	5,500	0.37	
	02/21/07	10.72	321.09	360	13	1.8	16	34	4,400	0.50	
	05/15/07	11.69	320.12	<500	40	5.3	11	16	7,300	0.52	
	08/28/07	11.98	319.83	<250	<2.5	<2.5	<2.5	<2.5	7,300	0.39	
	12/21/07	11.31	320.50	4,400	200	45	50	550	3,500	0.45	
	02/26/08	10.15	321.66	6,800	740	130	290	600	330	0.61	
	05/21/08	11.60	320.21	1,900	150	8.1	44	100	88	0.63	
	08/13/08	11.91	319.90	1,200	84	3.7	36	18	<75	0.42	
	11/13/08	11.73	320.08	150	15	1.4	3.0	4.2	35	0.44	

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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	Dissolved					Notes	
					Benzene	Toluene	Ethylbenzene	Xylenes	MTBE		
$\mu\text{g/L}$											
MW-7A <i>330.71</i>	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
	07/07/06	9.17	321.54	--	--	--	--	--	--	--	
	08/17/06	8.68	322.03	60	1.1	<0.5	<0.5	<0.5	1.1	930(1,400)	0.29
	11/24/06	9.88	320.83	<50	<0.5	<0.5	<0.5	<0.5	<0.5	260	0.20
	02/21/07	9.59	321.12	<50	4.6	<0.5	0.62	2.2	270	0.35	
	05/15/07	10.15	320.56	<50	<0.5	<0.5	<0.5	<0.5	45	0.40	
	08/28/07	10.09	320.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.42	
	12/21/07	10.00	320.71	3,200	180	38	100	410	890	0.68	
	02/26/08	8.78	321.93	1,300	150	1.8	59	99	410	0.90	
	05/21/08	10.16	320.55	200	18	<0.5	3.3	<0.5	30	0.75	
	08/13/08	10.27	320.44	<50	<0.5	<0.5	<0.5	<0.5	24	0.81	
	11/13/08	10.27	320.44	<50	<0.5	<0.5	<0.5	<0.5	30	0.85	
MW-8A <i>331.19</i>	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
	07/07/06	9.20	321.99	--	--	--	--	--	--	--	
	08/17/06	8.73	322.46	<50	<0.5	<0.5	<0.5	<0.5	19 (26)	0.26	
	11/24/06	9.80	321.39	<50	<0.5	<0.5	<0.5	<0.5	34	0.21	
	02/21/07	9.81	321.38	<50	<0.5	<0.5	<0.5	<0.5	16	0.29	
	05/15/07	10.05	321.14	<50	<0.5	<0.5	<0.5	<0.5	13	0.33	
	08/28/07	9.83	321.36	<50	<0.5	<0.5	<0.5	<0.5	19	0.35	
	12/21/07	10.36	320.83	<50	<0.5	<0.5	<0.5	<0.5	16	0.61	
	02/26/08	8.33	322.86	<50	<0.5	<0.5	<0.5	<0.5	38	0.77	
	05/21/08	9.99	321.20	<50	<0.5	<0.5	<0.5	<0.5	13	0.81	
	08/13/08	10.49	320.70	<50	<0.5	<0.5	<0.5	<0.5	68	0.65	
	11/13/08	10.39	320.80	<50	<0.5	<0.5	<0.5	<0.5	110	0.68	
MW-9A <i>331.17</i>	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
	07/07/06	9.96	321.21	--	--	--	--	--	--	--	
	08/17/06	9.40	321.77	150	<0.5	1.3	<0.5	<0.5	79(100)	0.53	
	11/24/06	11.02	320.15	200	<0.5	2.4	<0.5	<0.5	31	0.38	
	02/21/07	10.53	320.64	<50	<0.5	<0.5	<0.5	<0.5	21	0.33	
	05/15/07	10.81	320.36	86	<0.5	<0.5	<0.5	<0.5	31	0.45	
	08/28/07	11.11	320.06	95	<0.5	1.4	<0.5	<0.5	10	0.38	
	12/21/07	10.76	320.41	120	<0.5	2.9	<0.5	0.51	9.5	0.50	
	02/26/08	9.71	321.46	120	<0.5	1.2	<0.5	<0.5	9.5	0.86	
	05/21/08	10.75	320.42	86	<0.5	<0.5	<0.5	<0.5	6.3	0.84	
	08/13/08	11.31	319.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.76	
	11/13/08	11.14	320.03	52	<0.5	<0.5	<0.5	<0.5	5.5	0.63	
MW-10A <i>329.93</i>	05/29/06	11.60	318.33	<50	<0.5	<0.5	<0.5	<0.5	5.3 (4.7)	0.68	TAME, TBA, DIPE, ETBE=ND
	07/07/06	9.78	320.15	--	--	--	--	--	--	--	
	08/17/06	8.80	321.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.47	
	11/24/06	12.61	317.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.26	
	02/21/07	8.96	320.97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.25	
	05/15/07	9.22	320.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.30	
	08/28/07	8.44	321.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.35	
	12/21/07	8.81	321.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.47	
	02/26/08	7.34	322.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.70	
	05/21/08	9.22	320.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.64	
	08/13/08	9.25	320.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.61	
	11/13/08	9.47	320.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.70	

Intermediate-Depth (B-zone) Wells

MW-6B <i>330.9</i>	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
	07/07/06	8.55	322.35	--	--	--	--	--	--	--	
	08/17/06	8.66	322.24	<50	<0.5	<0.5	<0.5	<0.5	8.5(9.6)	0.40	
	11/24/06	9.25	321.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.31	
	02/21/07	8.80	322.10	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.37	
	05/15/07	9.21	321.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.31	
	08/28/07	9.60	321.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	12/21/07	9.42	321.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.82	
	02/26/08	7.87	323.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.80	
	05/21/08	9.37	321.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.87	
	08/13/08	9.70	321.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.81	
	11/13/08	9.62	321.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.78	
MW-7B <i>330.69</i>	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
	07/07/06	9.03	321.66	--	--	--	--	--	--	--	
	08/17/06	8.62	322.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.22	
	11/24/06	9.75	320.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.27	
	02/21/07	9.44	321.25	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.29	
	05/15/07	9.97	320.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.33	
	08/28/07	9.96	320.73	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	12/21/07	9.87	320.82	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.53	
	02/26/08	8.64	322.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.59	
	05/21/08	10.05	320.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.56	
	08/13/08	10.17	320.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	11/13/08	10.15	320.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.53	

Pangea

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 ↔											
Deep (C-Zone) Wells											
MW-6C 330.88	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
	07/07/06	8.41	322.47	--	--	--	--	--	--	--	
	08/17/06	8.56	322.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.21	
	11/24/06	9.12	321.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.28	
	02/21/07	8.62	322.26	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.21	
MW-7C 330.74	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
	07/07/06	8.70	322.04	--	--	--	--	--	--	--	
	08/17/06	8.52	322.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.17	
	11/24/06	9.42	321.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.19	
	02/21/07	9.01	321.73	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.31	
MW-9C 331.48	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
	07/07/06	8.85	322.63	--	--	--	--	--	--	--	
	08/17/06	9.20	322.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.21	
	11/24/06	9.61	321.87	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.33	
	02/21/07	8.94	322.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.46	
MW-10C 329.66	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
	07/07/06	7.28	322.38	--	--	--	--	--	--	--	
	08/17/06	7.29	322.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.22	
	11/24/06	10.75	318.91	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.33	
	02/21/07	7.69	321.97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.39	
MW-11C 331.61	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
	07/07/06	10.02	321.59	--	--	--	--	--	--	--	
	08/17/06	9.60	322.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.22	
	11/24/06	10.60	321.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.28	
	02/21/07	10.30	321.31	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.43	

Abandoned Wells

MW-3 332.86	10/04/94	12.06	320.67	6,300	610	750	68	670	--		
	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		
	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						Well Abandoned
EA-1 331.21	10/17/88	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	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	--		

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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)											
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	--		
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						Well Abandoned
EA-2											
<i>330.41</i>	10/17/88	--	<50	<0.5	<0.5	<0.5	1.2	--	--		
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	<0.5	--		
03/28/89	8.8	323.79	<250	<2	<0.5	<0.5	<0.5	<0.5	--		
08/02/89	9.44	323.15	<50	<0.1	<0.1	<0.1	<0.1	<0.1	--		
11/06/89	9.53	323.06	<500	<3.0	<5.0	<5.0	<5.0	<5.0	--		
01/25/90	9.27	323.32	<50	<0.5	<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	<0.5	--		
10/24/90	10.08	322.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
01/31/91	10.21	322.38	<50	<0.5	<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	<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	<0.5	--		
06/05/92	9.86	322.73	<50	<0.5	<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	<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	323.59	<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	--		
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						

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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)											
	11/11/02	9.03	321.38								
	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							0.77	
	08/17/05	7.97	322.44							0.85	
	11/27/05	9.83	320.58							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											
<i>331.5</i>	10/17/88	--	--	<50	1.8	<0.5	<0.5	3	--		
	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	--	
	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								
	08/28/01	10.56	320.94	<50	<0.5	<0.5	<0.5	<0.5	37	--	
	11/27/01	10.65	320.85								
	02/28/02	10.37	321.13	<50	1.3	<0.50	2	1.8	90	--	
	05/22/02	10.27	321.23								
	08/20/02	10.3	321.2	<50	<0.50	<0.50	<0.50	<1.5	40	--	
	11/11/02	9.05	322.45								
	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

Grab Groundwater Analytical Data

SB-1A-W	05/18/06	11.20	NA	170	1.5	1.5	1.2	5.9	570 (500)	--	TAME=90µg/L, TBA,DIPE,ETBE=ND
DPB-1	05/01/03	16-20	NA	12,000	25	440	440	2,180	8,100	--	
DPB-2	04/22/03	NA	NA	710	1.1	<1	18	74	540	--	
DPB-3	04/17/03	16-20	NA	48,000	400	5,800	1,500	9,500	8,900	--	
	04/17/03	27-31	NA	62,000	700	9,900	1,300	7,900	4,200	--	
	04/17/03	39-43	NA	27,000	210	3,200	640	4,100	7,700	--	
DPB-4	04/17/03	32-36	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
DPB-5	04/30/03	7-11	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/17/03	11-15	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/30/03	26-30	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/17/03	36-40	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
DPB-6	04/18/03	15-19	NA	7,700	18	77	170	640	5.9	--	
	04/18/03	26-30	NA	4,700	21	76	160	650	6.2	--	
	04/18/03	35-39	NA	2,900	8.8	24	54	249	100	--	
DPB-7	04/18/03	15-19	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/18/03	20-24	NA	7,000	42	640	190	990	300	--	
	04/18/03	35-39	NA	150	<0.5	1.8	0.8	5.7	<0.5	--	
DPB-8	05/01/03	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	

Pangea

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

Well ID <i>TOC Elev (ft)</i>	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ↔ μg/L	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE ↔ mg/L	Dissolved Oxygen mg/L	Notes
DPB-S	04/18/03	14-18	NA	20,000	<170	<170	380	6,600	53,000	--	
	04/18/03	26-30	NA	1,500	7.1	<3.1	7.4	170	760	--	
	04/18/03	35-39	NA	4,300	<63	<63	<63	910	42,000	--	

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 = Benzene, toluene, ethylbenzene, and xylenes 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

TAME = Tertiary amyl methyl ether by EPA Method 8260B

TBA = Tertiary butyl alcohol by EPA Method 8260B

DIPE = Diisopropyl 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 Program

Table A. Groundwater Monitoring Program - 7240 Dublin Boulevard, Dublin, CA

Well ID	Well Type	Screened Interval (ft bgs)	Well Location for Monitoring	Casing Diam. (in)	Gauge Frequency	Sample Frequency ^{1,2}
Surface Water						
C-1*	Gauging Point	--	W, Flood Control Channel	--	Q	---
Upper Shallow AA-Zone Wells						
MW-7AA	Mon (Proposed DPE)	9-14	Source	4	Q	Q
VW-1	Mon+SVE (Proposed DPE)	3-9	Source	2	Q	1st
VW-2	Mon+SVE (Proposed DPE)	3-9	Source	2	Q	1st
VW-3	Mon+SVE (Proposed DPE)	3-9	Source	2	Q	1st
Shallow A-Zone Wells						
MW-1	Mon	5-25	W, Adjacent SS	2	Q	Q
MW-2	Mon	5-20	W, Adjacent Flood Channel	2	Q	Q
MW-3A	Mon (Proposed DPE)	10-17	N Source, Adjacent SS	4	Q	Q
MW-4	Mon	8.5-20	NW Upgradient, Offsite	2	Q	1st
MW-5	Mon	8.5-21	W Upgradient, Offsite	2	Q	1st
MW-6A	Mon (Proposed DPE)	15-20	N Source, Adjacent SS	4	Q	Q
MW-7A	Mon (Proposed DPE)	16-20	Source	4	Q	1st
MW-8A	Mon	15-20	S, Adjacent Building	2	Q	Q
MW-9A	Mon	15-20	NE Perimeter	2	Q	1st
MW-10A	Mon	15-20	S Perimeter	2	Q	1st
Intermediate Depth B-Zone Wells						
MW-6B	Mon	26-30	N Source, Adjacent SS	2	Q	1st
DW-7B	Mon	26-30	Source	2	Q	1st
Deep C-Zone Wells						
MW-6C	Mon	34-44	N Source, Adjacent SS	2	---	---
MW-7C	Mon	35-45	Source	2	---	---
MW-9C	Mon	35-45	NE Perimeter	2	---	---
MW-10C	Mon	35-45	S Perimeter	2	---	---
MW-11C	Mon	33.5-43.5	W Intermediate	2	---	---

Notes and Abbreviations:

1 = Summary: 6 wells sampled each quarter, 16 wells sampled 1st quarter. 5 C-zone wells not sampled.

2 = Sample Analytes: Total Petroleum Hydrocarbons as Gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8015Cm/8021B.

Q = All four quarters. Typically B months (February, May, August, November)

1st = 1st quarter only, typically February

Mon = Groundwater Monitoring Only

SVE = Soil Vapor Extraction

DPE = Dual Phase Extraction

N, S, W, E = Cardinal directions North, South, West, East and other directions (e.g., Northeast = NE)

SS = Sanitary Sewer beneath Dublin Blvd

* = Surface water level gauging point, not a well.

-- = Not gauged or sampled.

APPENDIX B

Groundwater Monitoring Field Data Sheets

Well Gauging Data Sheet

Project Task #: 1001.001 217			Project Name: Dublin Car Wash			
Address: 7420 Dublin Boulevard, Dublin, CA				Date: 11/13/08		
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)
MW-1	2"	7:51			13.50	25.32
MW-2	2"	7:54			9.16	20.00
MW-3A	4"	8:24			11.55	16.78
MW-4	2"	7:35			10.93	19.78
MW-5	2"	7:39			11.01	20.56
MW-6A	2"	8:18			11.73	19.13
MW-6B	2"	7:57			9.62	29.73
MW-7AA	4"	8:10			10.35	13.84
MW-7A	4"	8:07			10.27	19.53
MW-7B	2"	8:05			10.15	28.42
MW-8A	2"	7:45			10.39	19.01

Comments: $D0 = mg/L$ MW-4 = 0.64 , MW-5 = 0.79

Well Gauging Data Sheet

Project Task #: 1001.001 217			Project Name: Dublin Car Wash				
Address: 7420 Dublin Boulevard, Dublin, CA					Date: 11/13/08		
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-9A	2"	7:48			11.14	19.66	TOC
MW-10A	2"	7:42			9.47	19.51	
VW-1	2"	8:00			5.97	8.40	
VW-2	2"	8:02			5.96	8.30	
VW-3	2'	8:15			7.45	8.40	X
C-1	—	8:31			12.40	—	TOC

Comments:

MONITORING FIELD DATA SHEET

Well ID: M12-1

Comments: YSI 550A DO meter

pre purge DO = 0.94 mg/l

post purge DO = mg/l

very turbid

Sample ID: MW-1	Sample Time: 11:45
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/13 /08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-2

Comments: YSI 550A DO meter

pre purge DO = 0.86 mg/l

post purge DO = mg/l

turbid

Sample ID: MW-2	Sample Time: 12:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/13/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-3A

Comments: YSI 550A DO meter

pre purge DO = 0.64 mg/l

post purge DO = mg/l

Turbid

Sample ID: MW-3A	Sample Time: 9:50
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/14/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-6A

Comments: YSI 550A DO meter pre purge DO = 0.44 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-6A	Sample Time: 9:10
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/14/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-6B

Comments: YSI 550A DO meter pre purge DO = 0.78 mg/l

post purge DO = mg/l

Turbid

Sample ID: MN-6B	Sample Time: 8:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/ 14 /08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-7AA

Comments: YSI 550A DO meter

pre purge DO = 0.80 mg/l

post purge DO = mg/l

forbid

Sample ID: MW-7AA	Sample Time: 7:55
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/14/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-7A

Comments: YSI 550A DO meter

pre purge DO = 0.85 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-7A	Sample Time: 6:50
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/14/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-7B

Comments: YSI 550A DO meter

pre purge DO = 0.53 mg/l

post purge DO = mg/l

turbid

Sample ID: MW-7B	Sample Time: 6:25
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/14/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-8A

Comments: YSI 550A DO meter

pre purge DO = 0.68 mg/l

post purge DO = mg/l

turbid

Sample ID: MW-8A	Sample Time: 10:45
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/13/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-9A

Comments: YSI 550A DO meter pre purge DO = 0.63 mg/l

post purge DO = mg/l

lucid

Was his

his bid

his bid

Sample ID: MW-9A	Sample Time: 10:20
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/13/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: M2W-10A

Comments: YSI 550A DO meter

pre purge DO = 0.70 mg/l

post purge DO = mg/l

forbid

Sample ID: MW-10A	Sample Time: 11:20
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/13/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: Vh-1

Comments: YSI 550A DO meter pre purge DO = 1.10 mg/l

post purge DO = mg/l

turbid

Sample ID: VN-1	Sample Time: 10:00
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/14 /08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: VJ-2

Comments: YSI 550A DO meter

pre purge DO = 0.97 mg/l

post purge DO = mg/l

turbid

Sample ID: VU-2	Sample Time: 10:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/14/08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: VU-3

Comments: YSI 550A DO meter

pre purge DO = 2.79 mg/l

post purge DO = mg/l

Sample ID: VW-3	Sample Time: 10:10
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/14 /08
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

APPENDIX C

Laboratory Analytical Results



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; 7420 Dublin Blvd., Dublin Carwash	Date Sampled: 11/13/08-11/14/08 Date Received: 11/14/08
	Client Contact: Celia Costarella	Date Reported: 11/21/08
	Client P.O.:	Date Completed: 11/21/08

WorkOrder: 0811453

November 21, 2008

Dear Celia:

Enclosed within are:

- 1) The results of the **14** analyzed samples from your project: **#1001.001; 7420 Dublin Blvd., Dublin Carwash**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing
McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.



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; 7420 Dublin Blvd., Dublin Carwash	Date Sampled: 11/13/08-11/14/08
		Date Received: 11/14/08
	Client Contact: Celia Costarella	Date Extracted: 11/18/08-11/21/08
	Client P.O.:	Date Analyzed 11/18/08-11/21/08

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0811453

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND	ND	ND	ND	ND	ND	1	100
002A	MW-2	W	ND	77	ND	ND	ND	ND	1	102
003A	MW-3A	W	1200,d1	1100	150	3.5	22	31	5	103
004A	MW-6A	W	150,d1	35	15	1.4	3.0	4.2	1	115
005A	MW-6B	W	ND	ND	ND	ND	ND	ND	1	103
006A	MW-7AA	W	8000,d1	19,000	1100	20	290	280	10	115
007A	MW-7A	W	ND	30	ND	ND	ND	ND	1	109
008A	MW-7B	W	ND	ND	ND	ND	ND	ND	1	105
009A	MW-8A	W	ND	110	ND	ND	ND	ND	1	103
010A	MW-9A	W	52,d7	5.5	ND	ND	ND	ND	1	95
011A	MW-10A	W	ND	ND	ND	ND	ND	ND	1	101
012A	VW-1	W	ND	46	ND	ND	ND	ND	1	96
013A	VW-2	W	ND	53	8.0	ND	ND	ND	1	103
014A	VW-3	W	13,000,d1	170	600	9.6	220	120	10	109

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	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:

d1) weakly modified or unmodified gasoline is significant

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



McCampbell Analytical, Inc.

"When Quality Counts"

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 39667

WorkOrder: 0811453

EPA Method: SW8021B/8015Cm			Extraction: SW5030B			Spiked Sample ID: 0811453-011A									
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)						
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD			
TPH(btex) [£]	ND	60	104	106	1.51	94.5	98.2	3.83	70 - 130	20	70 - 130	20			
MTBE	ND	10	80.2	91.4	13.0	102	109	6.24	70 - 130	20	70 - 130	20			
Benzene	ND	10	87.9	91.5	4.06	97.1	97.6	0.462	70 - 130	20	70 - 130	20			
Toluene	ND	10	92.3	94.7	2.62	95.7	96.8	1.11	70 - 130	20	70 - 130	20			
Ethylbenzene	ND	10	92.2	94.8	2.74	99.9	101	0.784	70 - 130	20	70 - 130	20			
Xylenes	ND	30	105	109	2.90	110	110	0	70 - 130	20	70 - 130	20			
%SS:	101	10	99	101	1.86	96	95	1.43	70 - 130	20	70 - 130	20			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 39667 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811453-001A	11/13/08 11:45 AM	11/18/08	11/18/08 3:18 AM	0811453-002A	11/13/08 12:05 PM	11/18/08	11/18/08 9:45 PM
0811453-003A	11/14/08 9:50 AM	11/18/08	11/18/08 6:43 PM	0811453-003A	11/14/08 9:50 AM	11/20/08	11/20/08 8:47 AM
0811453-004A	11/14/08 9:10 AM	11/20/08	11/20/08 10:20 PM	0811453-005A	11/14/08 8:35 AM	11/18/08	11/18/08 10:15 PM
0811453-006A	11/14/08 7:55 AM	11/18/08	11/18/08 8:03 AM	0811453-006A	11/14/08 7:55 AM	11/19/08	11/19/08 5:35 AM
0811453-007A	11/14/08 6:50 AM	11/18/08	11/18/08 9:15 PM	0811453-008A	11/14/08 6:25 AM	11/20/08	11/20/08 4:20 AM
0811453-009A	11/13/08 10:45 AM	11/19/08	11/19/08 12:16 AM	0811453-010A	11/13/08 10:20 AM	11/20/08	11/20/08 5:28 AM
0811453-011A	11/13/08 11:20 AM	11/18/08	11/18/08 5:31 PM	0811453-012A	11/14/08 10:00 AM	11/21/08	11/21/08 8:47 AM
0811453-013A	11/14/08 10:05 AM	11/18/08	11/18/08 8:44 PM	0811453-014A	11/14/08 10:10 AM	11/18/08	11/18/08 11:26 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 enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.



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

Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **11/14/08 2:09:44 PM**

Project Name: **#1001.001; 7420 Dublin Blvd., Dublin Carwash**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **0811453** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

- | | | |
|---|---|-----------------------------|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

Sample Receipt Information

- | | | | |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

- | | | | |
|---|---|-----------------------------|---|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature | Cooler Temp: 4.4°C | | NA <input type="checkbox"/> |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Sample labels checked for correct preservation? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| TTLC Metal - pH acceptable upon receipt (pH<2)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Samples Received on Ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:

McCampbell Analytical, Inc.

 1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0811453

ClientCode: PEO

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Celia Costarella
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Email: ccostarella@pangeaenv.com

cc:
PO:
ProjectNo: #1001.001; 7420 Dublin Blvd., Dublin
Carwash

(510) 836-3700 FAX (510) 836-3709

Bill to:

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

Requested TAT: 5 days

Date Received: 11/14/2008

Date Printed: 11/14/2008

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0811453-001	MW-1	Water	11/13/2008 11:45	<input type="checkbox"/>	A	A											
0811453-002	MW-2	Water	11/13/2008 12:05	<input type="checkbox"/>	A												
0811453-003	MW-3A	Water	11/14/2008 9:50	<input type="checkbox"/>	A												
0811453-004	MW-6A	Water	11/14/2008 9:10	<input type="checkbox"/>	A												
0811453-005	MW-6B	Water	11/14/2008 8:35	<input type="checkbox"/>	A												
0811453-006	MW-7AA	Water	11/14/2008 7:55	<input type="checkbox"/>	A												
0811453-007	MW-7A	Water	11/14/2008 6:50	<input type="checkbox"/>	A												
0811453-008	MW-7B	Water	11/14/2008 6:25	<input type="checkbox"/>	A												
0811453-009	MW-8A	Water	11/13/2008 10:45	<input type="checkbox"/>	A												
0811453-010	MW-9A	Water	11/13/2008 10:20	<input type="checkbox"/>	A												
0811453-011	MW-10A	Water	11/13/2008 11:20	<input type="checkbox"/>	A												
0811453-012	VW-1	Water	11/14/2008 10:00	<input type="checkbox"/>	A												
0811453-013	VW-2	Water	11/14/2008 10:05	<input type="checkbox"/>	A												
0811453-014	VW-3	Water	11/14/2008 10:10	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

0811453

Pangea Environmental Services, Inc.

1710 Franklin Street
Oakland, CA 94612

Website: www.pangeaenv.com

Telephone: (510) 836-3700

Fax: (510) 836-3709

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

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

Report To: Celia Costarella		Bill To: Pangea		Analysis Request								Other	Comments															
Company: Pangea Environmental Technology, Inc.		Project Name: 7420 Dublin Blvd. Dublin, CA																										
1710 Franklin Street, Suite 200, Oakland, CA 94612		E-Mail: ccostarella@pangeaenv.com																										
Tele: (510) 735-1751		Fax: (510) 836-3709																										
Project #: 1001.001		Project Name: 7420 Dublin Blvd. Dublin, CA																										
Project Location: 7420 Dublin Blvd., Dublin, CA		Sampler Signature: Muckler Environmental Sampling																										
SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX		METHOD PRESERVED	Analysis Request								Other	Comments										
		Date	Time			Water	Soil		Air	Sludge	Other	ICE	HCL	HNO ₃	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
MN-1		11-13-08	11:45 AM	X	No	X			X			X																
MN-2		11-13-08	12:05																									
MN-3A		11-14-08	9:50																									
MN-6A		11-14-08	9:10																									
MN-6B		11-14-08	8:35																									
MN-7AA		11-14-08	7:55																									
MN-7A		11-14-08	6:50																									
MN-7B		11-14-08	6:25																									
MN-8A		11-13-08	10:45																									
MN-9A		11-13-08	10:20																									
MN-10A		11-13-08	11:20																									
VN-1		11-14-08	10:00																									
VN-2		11-14-08	10:05																									
VN-3		11-14-08	10:10	X	X	X																						
Relinquished By:		Date: 11/14/08	Time: 11:08	Received By: <i>Muckler Enviro</i>	4.14								COMMENTS:															
Relinquished By:		Date:	Time:	Received By:	GOOD CONDITION ✓ HEAD SPACE ABSENT ✓ DECHLORINATED IN LAB ✓ APPROPRIATE CONTAINERS ✓ PRESERVED IN LAB ✓																							
Relinquished By:		Date:	Time:	Received By:	VOAS ✓ O&G ✓ METALS ✓ OTHER pH<2 PRESERVATION ✓																							