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9:21 am, Jun 30, 2009

Alameda County
Environmental Health

SAFEWAY 

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June 24, 2009

Paresh C. Khatri
ALAMEDA COUNTY ENVIRONMENTAL HEALTH
131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Project No. 33108-0086470.00

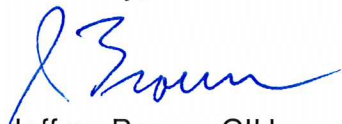
Subject: Groundwater Monitoring Report – Second Quarter 2009
Former Quest Laboratory
6511 Golden Gate Drive
Dublin, California (Fuel Leak Case No. RO0002860)

Dear Mr. Khatri:

On behalf of Safeway, Bureau Veritas North America, Inc. has prepared the attached *Groundwater Monitoring Report – Second Quarter 2009* for the above site in Dublin, California. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any comments or questions regarding the report please contact me at (925) 226-5845 or at jeff.brown @safeway.com.

Sincerely,



Jeffrey Brown, CIH
Director, Environmental Affairs

enclosure



June 23, 2009

Paresh C. Khatri
ALAMEDA COUNTY ENVIRONMENTAL HEALTH
131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Project No. 33108-0086470.00

Subject: Groundwater Monitoring Report – Second Quarter 2009
Former Quest Laboratory
6511 Golden Gate Drive
Dublin, California (Fuel Leak Case No. RO0002860)

Dear Mr. Khatri:

Bureau Veritas North America, Inc. is pleased to present the attached *Groundwater Monitoring Report – Second Quarter 2009* for the above site in Dublin, California. The report summarizes the findings of our investigation.

Bureau Veritas is pleased to be of service to Alameda County Environmental Health and Safeway Inc. Please contact me at 925.426.2679 or by email at don.ashton@us.bureauveritas.com, if you have any questions or comments.

Sincerely,

Donald Ashton
Senior Geologist
Environmental Services

cc: Kevin Thompson – Safeway Inc.
Jeff Brown – Safeway Inc.

Bureau Veritas North America, Inc.

Health, Safety, and Environmental Services

2430 Camino Ramon, Suite 122

San Ramon, CA 94583

Main: (925) 426-2600

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***Groundwater Monitoring Report
Second Quarter 2009
(Fuel Leak Case No. RO0002860)***

Former Quest Laboratory
6511 Golden Gate Drive
Dublin, California

June 23, 2009
Project No. 33108-008647.00

Prepared for
Safeway Inc.
Pleasanton, California



For the benefit of business and people

Bureau Veritas North America, Inc.
2430 Camino Ramon, Suite 122
San Ramon, California 94583
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1.0 INTRODUCTION

Safeway Inc. (Safeway) retained Bureau Veritas North America, Inc. (Bureau Veritas) to perform groundwater monitoring for the second 2009 quarterly event at the former Quest Laboratory property located at 6511 Golden Gate Drive in Dublin, California (the Site, Figure 1). This work was performed regarding Alameda County Environmental Health (ACEH) Fuel Leak Case No. RO0002860 in response to a letter from the ACEH, dated September 16, 2008.

2.0 BACKGROUND

In 2003, prior to purchasing the site, Safeway retained Clayton Group Services, Inc. (now Bureau Veritas) to conduct Phase I and II Environmental Site Assessments. The Phase I ESA found that the Site had been used for agriculture from at least 1954 to about 1981, when the current facility was constructed. The facility was used as a biomedical laboratory from 1982 to late 2003, when Quest Laboratory vacated the facility and sold the property to Safeway. A former gasoline UST existed at the north property boundary and was removed in 1989, receiving closure by ACEH in 1990. Clayton's *Phase II Environmental Investigation at the Former Quest Laboratory 6511 Golden Gate Drive, Dublin, California*, dated April 26, 2004 (Clayton 2004) reports the finding of petroleum hydrocarbons in groundwater in a limited number of samples collected below and downgradient of the former UST. On October 7, 2004, Clayton submitted a copy of its 2004 Phase II report to ACEH disclosing the petroleum hydrocarbon findings at the request of Safeway.

ACEH notified Safeway that the site had been re-opened as a Fuel Leak Case (Geotracker Global ID: T06019799610) requiring additional investigation, in a letter dated July 3, 2008. Bureau Veritas conducted an additional investigation, installed three groundwater-monitoring wells, and submitted a report summarizing its findings entitled: *Additional Soil and Groundwater Investigation at Former Quest Laboratory*, dated March 13, 2009. Groundwater in two wells was found to contain low concentrations of petroleum hydrocarbons that slightly exceeded the Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB). To further characterize the local groundwater quality, a subsequent quarterly monitoring event was conducted, and the findings are summarized in this report.

3.0 SCOPE OF WORK

Bureau Veritas performed the following scope of work:

- Conducted groundwater depth monitoring and collected groundwater samples from each well.
- Analyzed groundwater samples for petroleum hydrocarbons.
- Prepared this technical report that documents the field activities, findings, with conclusions.



- Submitted data to the State Water Resources Control Board (SWRCB) GeoTracker program (following completion of final report).

3.1 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

3.1.1 Well Monitoring and Sampling

On the day of sampling (April 16, 2009), the well casings were opened allowing the groundwater levels to stabilize. The depth to water and the total depth of the water column were measured in each casing, and the volume of the water columns calculated. The wells were then purged using a 'low-flow purging technique' and the water quality parameters were monitored. A peristaltic pump with new tubing was used to purge groundwater from each monitoring well at a 'low flow' rate of approximately 300 milliliters or less per minute. Water quality parameters (pH, specific conductivity, temperature, turbidity, oxidation-reduction potential (ORP), and dissolved oxygen) were recorded onto well monitoring data sheets at timed intervals, and the data was recorded onto sampling data sheets (Appendix A).

Upon purging sufficient water from the monitoring wells and allowing for sufficient recovery, groundwater samples were collected for laboratory analysis. The sample container size, type, and sample preservative corresponded to the requested analytical method. Sample containers were sealed, labeled with identifying information, logged onto the chain-of custody, and temporarily stored in a chilled ice-chest for transportation to the laboratory. Groundwater removed from monitoring wells during development and purging was stored onsite in a sealed and labeled 55-gallon drum meeting Department of Transportation requirements, pending proper disposal.

4.0 LABORATORY ANALYSIS

Bureau Veritas submitted three (3) groundwater samples for laboratory analysis by the following United States Environmental Protection Agency (USEPA) approved methods:

- USEPA Method 8015C Modified for Purgeable Total Petroleum Hydrocarbons as gasoline (TPH-G), and Extractable Petroleum Hydrocarbons as diesel and motor oil (TPH-D and TPH-O).
- USEPA Method 8260B for Aromatic Organic Compounds (Benzene, Toluene, Ethylbenzene, and Xylenes – BTEX) and Fuel Oxygenates [OYX as: Diisopropyl ether (DIPE), Ethyl tert-butyl ether (ETBE), Methyl-t-butyl ether (MTBE), t-Butyl alcohol (TBA), tert-Amyl methyl ether (TAME)].

Groundwater samples were analyzed by McCampbell Analytical, Inc. of Pittsburg, California, a state certified laboratory. The laboratory prepared the generated data in the required electronic deliverable data (EDD) format for uploading into GeoTracker database.

5.0 FINDINGS

A summary of the findings from this investigation is presented below.



5.1 GROUNDWATER ELEVATION MONITORING

On April 16, 2009 the groundwater elevation was found to range between 327.72 feet (MW-2) and 328.13 feet (MW-1) above mean sea level. Groundwater elevations are presented in Table 1. This data was used to produce a groundwater elevation map with contours (Figure 3). Groundwater flow interpreted from this data is to the east at a gradient of 0.003 feet per foot.

5.2 GROUNDWATER

Analytical results for the three analyzed groundwater samples (MW-1, MW-2 and MW-3) were found to be below the laboratory reporting limits for TPH ranged compounds and BTEX-OXY compounds. The analytical results for the groundwater samples are summarized in Table 2.

6.0 CONCLUSION

The easterly groundwater gradient measured for this monitoring event follows the regional topography. Concentrations of TPH and BTEX-OXY compounds were not detected in groundwater and appear to indicate that the aged on site fuel release has degraded significantly. The relatively flat groundwater gradient indicates that groundwater is migrating at a slow rate.

7.0 RECOMMENDATIONS

Bureau Veritas recommends continued groundwater monitoring to further demonstrate the groundwater quality at the Site per ACEH's request.

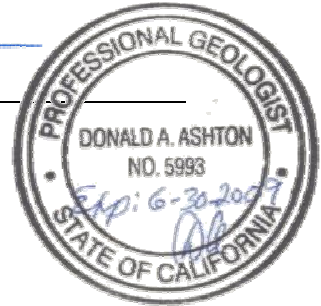


8.0 LIMITATIONS

The information and opinions included in this report were given in response to a specific scope of work and should be considered and implemented only in light of that particular scope of work. The services provided by Bureau Veritas in completing this project have been provided in a manner consistent with the normal standards of the profession. No other warranty, expressed or implied, is made.

This report was prepared by:

Donald A. Ashton, P.G.
Senior Geologist
Environmental Services



This report was reviewed by:

Jon A. Rosso, P.E.
Director
Environmental Services
San Francisco Regional Office
June 23, 2009



TABLES

TABLE 1
Groundwater Elevation Data
6511 Golden Gate Drive, Dublin, CA
 Project No. 33108-0086470.00

Monitoring Well	Measurement Date	Top of Casing (TOC) Elevation * (ft) NGVD 29	Depth to Groundwater (ft) from TOC	Groundwater Elevation (ft)	Change from Previous Measurement (ft)
MW-1	1/15/2009	342.68	15.59	327.09	First Event
	4/16/2009		14.55	328.13	1.04
MW-2	1/15/2009	342.53	15.79	326.74	First Event
	4/16/2009		14.81	327.72	0.98
MW-3	1/15/2009	342.99	16.21	326.78	First Event
	4/16/2009		15.21	327.78	1.00

Legend

* = Well Casing survey conducted on January 28, 2009 by Virgil Chavez Land Surveying (Geotracker ID: T06019799610)

NGVD 29 = National Geodetic Vertical Datum - 1929

Well Screen intervals: 10' to 20' bgs (installed January 8, 2009).

TABLE 2
Summary of Groundwater Analytical Results - TPH and VOCs
6511 Golden Gate Drive, Dublin, CA
Project No. 33108-008647.00

Sample ID	Date	Units	TPH-g	TPH-d	TPH-mo	Aromatics BTEX	Oxygenates: MTBE, TAME, DIPE, ETBE	Oxygenate TBA	EDB & 1,2-DCA	sec-Butyl benzene	4-Isopropyl toluene
MW-1	1/15/2009	ug/L	99	89	<250	<0.5	<0.5	<2.0	<0.5	0.53	<0.5
	4/16/2009	ug/L	<50	<50	<250	<0.5	<0.5	<2.0	--	--	--
MW-2	1/15/2009	ug/L	<50	<50	<250	<0.5	<0.5	<2.0	<0.5	<0.5	0.62
	4/16/2009	ug/L	<50	<50	<250	<0.5	<0.5	<2.0	--	--	--
MW-3	1/15/2009	ug/L	140	85	<250	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5
	4/16/2009	ug/L	<50	<50	<250	<0.5	<0.5	<2.0	--	--	--
ESLs - Tier 1 - Table A		ug/L	100	100	100	1	Varies	NE	Varies	NE	NE

Notes:

ug/L = micrograms per liter

TPH = Total Petroleum Hydrocarbons, compound range as gasoline (-g) by EPA Method 8015C

TPH = Total Petroleum Hydrocarbons, compound ranges as diesel (-d) and motor oil (-mo) by EPA Method 8015C with Silica Gel Cleanup

Aromatic volatiles = BTEX: benzene, toluene, ethylbenzene, & xylenes by EPA Method 8260B

Oxygenates: MTBE (methyl t-butyl ether), TAME (tert-Amyl methyl ether), DIPE (Diisopropyl ether), & ETBE (Ethyl tert-butyl ether) by EPA Method 8260B

Oxygenate: TBA (Tert-butyl alcohol)

EDB & 1,2-DCA = lead scavengers: ethylene dibromide & 1,2-dichloroethane

<0.5 = Analyte concentration below the indicated laboratory reporting level

-- = Not Analyzed

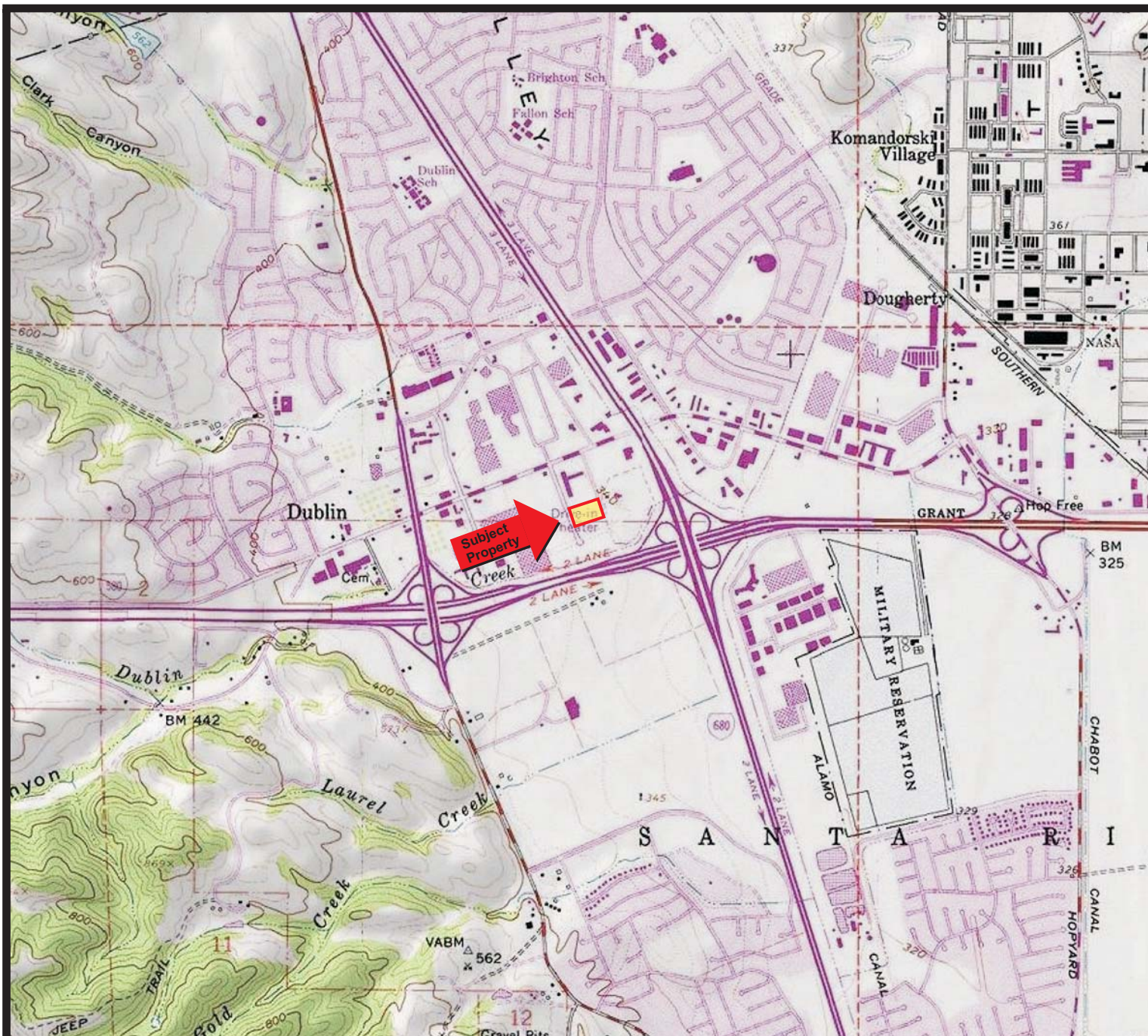
NE = Not established

ESLs = Environmental Screening Level: Screening For Environmental Concerns At Sites with Contaminated Soil and Groundwater, RWQCB

Interim Final - November 2007; Table A: Groundwater (<3 meter bgs) is a potential source of drinking water

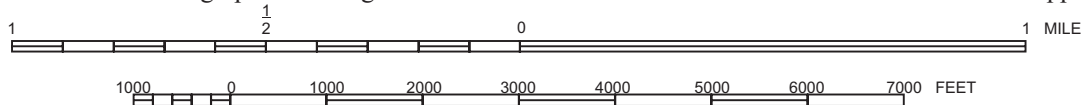


FIGURES

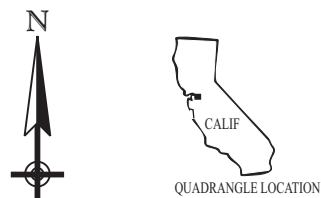


Map Source: TOPO! © 2000 National Geographic Holdings

Note: Boundaries and Location Information is Approximate



Portion of the 7.5-Minute Series Dublin, California
 Quadrangle Topographic Map (Datum: NAD 83)
 United States Department of the Interior
 Geological Survey
 1980 Photorevised from 1979

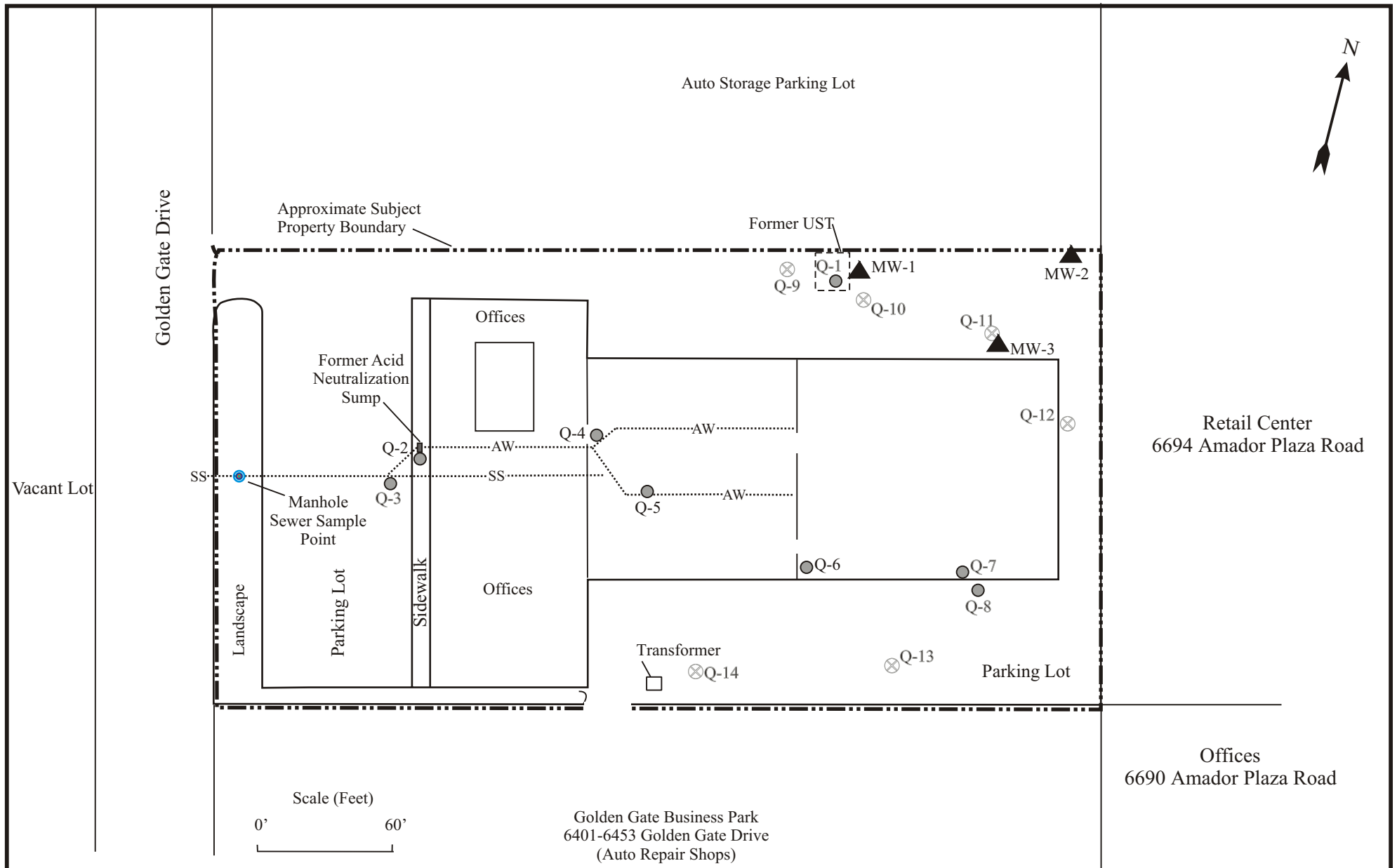


PROPERTY LOCATION MAP
 Former Quest Laboratory
 6511 Golden Gate Drive
 Dublin, California
 Project No. 33108-008647.00

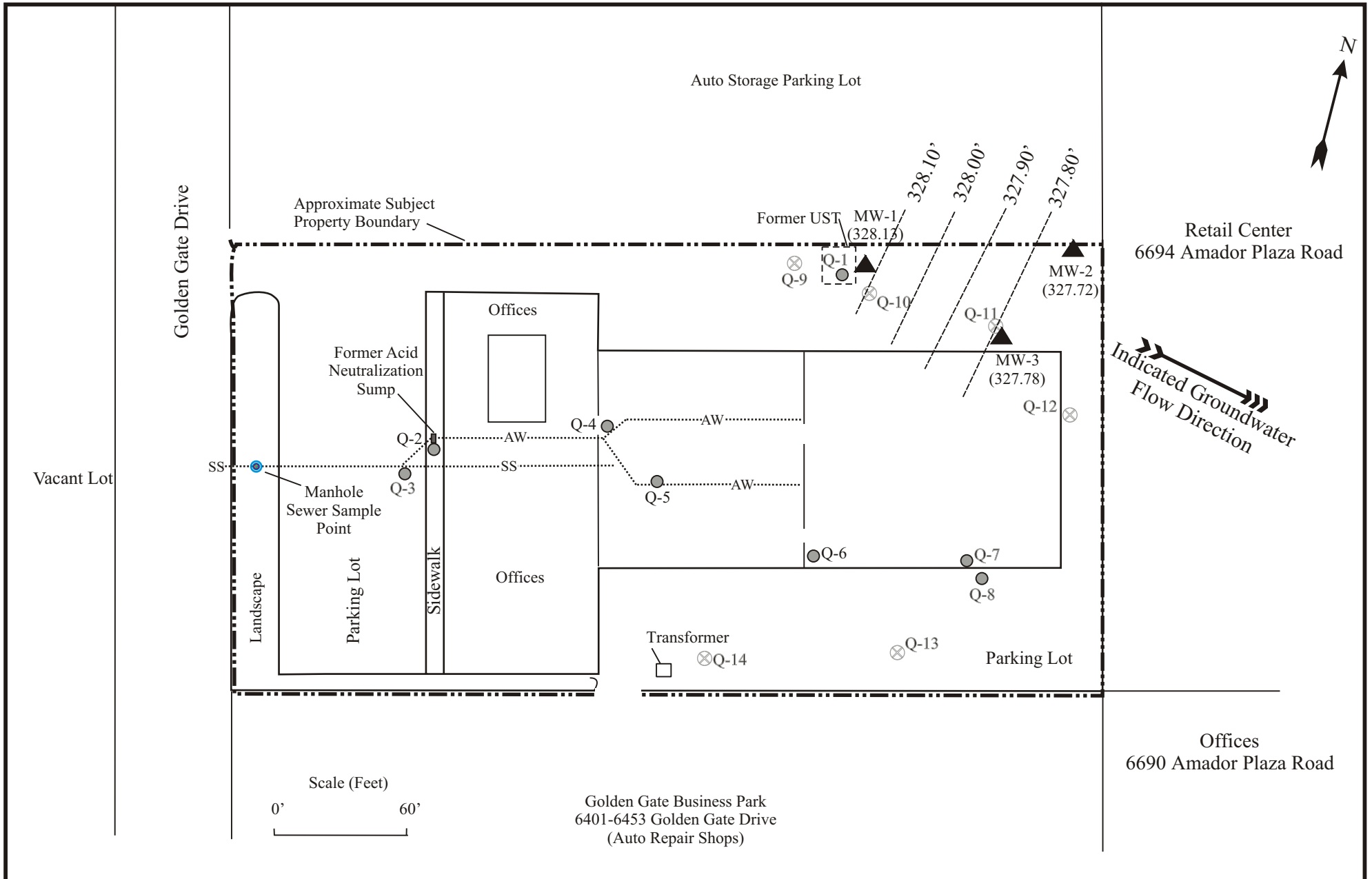
Figure


1





LEGEND	SITE PLAN WITH SAMPLE LOCATIONS	FIGURE	 BUREAU VERITAS
<p>▲ MW-1 Monitoring Well & ID, installed January 8, 2009</p> <p>● Q-2 Borehole/Sample Location 12-19-03 SS Sanitary Sewer Line</p> <p>⊗ Q-9 Borehole/Sample Location 1-22-04 AW Acid Waste Sewer Line</p>	<p>Former Quest Laboratory Randall Foods 6511 Golden Gate Drive Dublin, California Project No. 33108-008647.00</p>	<p>2</p>	



LEGEND	GROUNDWATER ELEVATION MAP 4-16-09	FIGURE	
<p>▲ Monitoring Well & ID with Groundwater Elevation in Feet (NGVD 29) 327.90'----- Groundwater Elevation Contour for April 16, 2009</p>	<p>Former Quest Laboratory Randall Foods 6511 Golden Gate Drive Dublin, California Project No. 33108-008647.00</p>	<p>3</p>	 <p>BUREAU VERITAS</p>
<p>Q-2● Borehole/Sample Location 12-19-03 SS Sanitary Sewer Line Q-9⊗ Borehole/Sample Location 1-22-04 AW Acid Waste Sewer Line</p>			



APPENDIX A
SAMPLING DATA SHEETS



GROUNDWATER SAMPLING DATA SHEET

Project Name:	Safeway	Well ID Number:	MW-1
Project No.:	33108-008647.00	Sample ID Number:	MW-1
Project Location:	Dublin, CA	Date Gauged:	4 / 16 / 2009
Field Technician:	Jeremy Wilson	Date Purged:	4 / 16 / 2009
Weather Conditions:	mostly clear / mild	Date Sampled:	4 / 16 / 2009

Top of Casing Elevation (ft. msl):	342.68	Casing Diameter (inches):	1.0
Depth to Water (ft. btoc):	15.51 14.55	Wellhead Condition:	OK
Groundwater Elevation (ft. msl):	308.58 328.13	Presence of Wellhead Gases:	NO
Depth to Well Bottom (ft. btoc):	25.13	Vapor Reading (ppm):	NA
Water Column Height (ft):	10.58	Presence of SPH:	NO
Calculated Purge Volume (gal):	0.42	Thickness of SPH (ft):	NA
Actual Purge Volume (gal):	3.2	Comments:	

Gallons Per Foot: 1"=0.04, 2"=0.17, 3"=0.37, 4"=0.66, 6"=1.5, other= r2 x 0.163

PURGING MEASUREMENTS

Time	Volume Removed (gal)	Specific Conductivity (Range: mS/cm - uS/cm)	Temp (°C)	Dissolved Oxygen (mg/L / %)	pH (STD units)	Turbidity (NTUs) or TDS g/L	ORP (mV)	Odor/Comments
1345	0	1.62	21.13	6.43	7.25	493	11.4	NO
1351	0.4	1.38	19.96	4.13	6.62	269	13.2	NO
1359	0.4	1.23	19.70	3.33	6.56	148	12.3	NO
1403	0.4	1.16	19.46	3.02	6.73	198	8.4	NO
1409	0.4	1.13	19.32	3.06	6.73	390	9.1	NO
1415	0.4	1.08	19.44	3.21	6.67	334	10.6	NO
1421	0.4	0.99	19.24	3.36	6.66	207	10.6	NO
1427	0.4	0.99	19.25	3.40	6.66	93.3	10.7	NO
1433	0.4	1.03	19.26	3.37	6.67	2354	11.0	NO

Water Level Indicator Model & No.:	Eaton Supply	Purge Method:	Peristaltic Pump
pH/Cond/Temp Meter Model:	Hanna U-22	Purge Equipment Used:	Peristaltic Pump
Turbidity Meter Model:	Hanna U-22	Purge Rate (gpm):	0.06 gpm
Acceptable GW recovery = 0.80 x water column height:		DTW at sampling: 14.86'	
Sample Collection Time:	1435	Chemical Laboratory:	McC Campbell Analytical 925-252-9262
Sample Collection Method:	Peristaltic Pump	Chemical Analysis:	TPH-d, g, mo, VOCs,
Sample Containers Used:	1L hcl amber, 3 VOAs hcl		

Other Field Observations:



GROUNDWATER SAMPLING DATA SHEET

Project Name:	Safeway	Well ID Number:	MW-2
Project No.:	33108-008647.00	Sample ID Number:	MW-2
Project Location:	Dublin, CA	Date Gauged:	4/16/2009
Field Technician:	Jeremy Wilson	Date Purged:	4/16/2009
Weather Conditions:	mostly clear / mild	Date Sampled:	4/16/2009

Top of Casing Elevation (ft. msl):	342.53	Casing Diameter (inches):	1.0
Depth to Water (ft. btoc):	14.81	Wellhead Condition:	OK
Groundwater Elevation (ft. msl):	327.72	Presence of Wellhead Gases:	No
Depth to Well Bottom (ft. btoc):	19.06	Vapor Reading (ppm):	NA
Water Column Height (ft):	4.25	Presence of SPH:	No
Calculated Purge Volume (gal):	0.17	Thickness of SPH (ft):	NA
Actual Purge Volume (gal):	1.53	Comments:	

Gallons Per Foot: 1"=0.04, 2"=0.17, 3"=0.37, 4"=0.66, 6"=1.5, other= r2 x 0.163

PURGING MEASUREMENTS

Time	Volume Removed (gal)	Specific Conductivity (Range: mS/cm - uS/cm)	Temp (°C)	Dissolved Oxygen (mg/L / %)	pH (STD units)	Turbidity (NTUs) or TDS g/L	ORP (mV)	Odor/Comments
1243	0.17	1.20	20.92	4.73	6.58	79.1	15.4	NO
1257	0.17	1.18	20.63	4.19	6.47	48.6	15.5	NO
1300	0.17	1.17	20.51	3.91	6.48	31.2	15.4	NO
1303	0.17	1.17	20.43	3.82	6.49	31.5	15.3	NO
1306	0.17	1.17	20.42	3.69	6.54	31.9	15.0	NO
1309	0.17	1.19	20.34	3.89	6.49	31.8/202	15.4	NO
1312	0.17	1.19	20.25	3.51	6.50	175.0	15.2	NO
1315	0.17	1.19	20.22	3.39	6.63	37.8	14.4	NO
1318	0.17	1.20	20.20	3.40	6.68	35.0	14.0	NO

Water Level Indicator Model & No.:	EnviroSupply	Purge Method:	Peristaltic Pump
pH/Cond/Temp Meter Model:	Horiba U-22	Purge Equipment Used:	Peristaltic Pump
Turbidity Meter Model:	Horiba U-22	Purge Rate (gpm):	Not Noted / Approx 0.06 gpm
Acceptable GW recovery = 0.80 x water column height:		DTW at sampling: 15.12	
Sample Collection Time:	1325	Chemical Laboratory:	McC Campbell Analytical 925-252-9262
Sample Collection Method:	Peristaltic Pump	Chemical Analysis:	TPH-d, g, mo, VOCs,
Sample Containers Used:	1L hcl amber, 3 VOAs hcl		

Other Field Observations:



APPENDIX B

LABORATORY ANALYTICAL DATA SHEETS AND CHAIN-OF-CUSTODY RECORD



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Bureau Veritas 2430 Camino Ramon, Suite 122 San Ramon, CA 94583	Client Project ID: #33108-008647.00; Gateway Blvd, Dublin CA	Date Sampled: 04/16/09
	Client Contact: Don Ashton	Date Received: 04/16/09
	Client P.O.:	Date Reported: 04/22/09
		Date Completed: 04/21/09

WorkOrder: 0904420

April 22, 2009

Dear Don:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#33108-008647.00; Gateway Blvd, D**
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0904420

ClientCode: BVP

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to: Don Ashton Bureau Veritas 2430 Camino Ramon, Suite 122 San Ramon, CA 94583 (925) 426-2600 FAX (925) 426-0106	Email: don.ashton@us.bureauveritas.com cc: PO: ProjectNo: #33108-008647.00; Gateway Blvd, Dublin CA	Bill to: Joan Miller Bureau Veritas 2430 Camino Ramon, Suite 122 San Ramon, CA 94583 joan.miller@us.bureauveritas.com	Requested TAT: 5 days Date Received: 04/16/2009 Date Printed: 04/16/2009
---	---	--	---

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
0904420-001	MW-1	Water	4/16/2009 14:35	<input type="checkbox"/>	A	B	A									
0904420-002	MW-2	Water	4/16/2009 13:25	<input type="checkbox"/>	A	B										
0904420-003	MW-3	Water	4/16/2009 15:40	<input type="checkbox"/>	A	B										

Test Legend:

1	G-MBTEX_W	2	MBTEXOXY-8260B_W	3	PREFD REPORT	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A contain testgroup.

Prepared by: Ana 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.



Sample Receipt Checklist

Client Name: **Bureau Veritas** Date and Time Received: **4/16/2009 7:21:14 PM**
Project Name: **#33108-008647.00; Gateway Blvd, Dublin CA** Checklist completed and reviewed by: **Ana Venegas**
WorkOrder N°: **0904420** Matrix Water Carrier: Courier

Chain of Custody (COC) Information

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Sample IDs noted by Client on COC? Yes No
Date and Time of collection noted by Client on COC? Yes No
Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
Shipping container/cooler in good condition? Yes No
Samples in proper containers/bottles? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
Container/Temp Blank temperature Cooler Temp: 9.4°C NA
Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
Sample labels checked for correct preservation? Yes No
TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA
Samples Received on Ice? Yes No

(Ice Type: OTHERS)

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

Client contacted: Date contacted: Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Bureau Veritas 2430 Camino Ramon, Suite 122 San Ramon, CA 94583	Client Project ID: #33108-008647.00; Gateway Blvd, Dublin CA	Date Sampled: 04/16/09
	Client Contact: Don Ashton	Date Received: 04/16/09
	Client P.O.:	Date Extracted: 04/18/09-04/20/09
		Date Analyzed 04/18/09-04/20/09

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B

Analytical methods SW8015Bm

Work Order: 0904420

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	MW-1	W	ND	1	100
002A	MW-2	W	ND	1	99
003A	MW-3	W	ND	1	101

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

* 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 McC Campbell Analytical is not responsible for their interpretation:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
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Bureau Veritas 2430 Camino Ramon, Suite 122 San Ramon, CA 94583	Client Project ID: #33108-008647.00; Gateway Blvd, Dublin CA	Date Sampled: 04/16/09
	Client Contact: Don Ashton	Date Received: 04/16/09
	Client P.O.:	Date Extracted: 04/17/09-04/18/09
		Date Analyzed: 04/17/09-04/18/09

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0904420

Lab ID	0904420-001B	0904420-002B	0904420-003B		Reporting Limit for DF =1	
Client ID	MW-1	MW-2	MW-3			
Matrix	W	W	W			
DF	1	1	1			

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND		NA	0.5
Benzene	ND	ND	ND		NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND		NA	2.0
Diisopropyl ether (DIPE)	ND	ND	ND		NA	0.5
Ethylbenzene	ND	ND	ND		NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND		NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND		NA	0.5
Toluene	ND	ND	ND		NA	0.5
Xylenes	ND	ND	ND		NA	0.5

Surrogate Recoveries (%)

%SS1:	77	76	78	
%SS2:	88	87	86	

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 coelutes with another peak; &) low surrogate due to matrix interference.



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Bureau Veritas 2430 Camino Ramon, Suite 122 San Ramon, CA 94583	Client Project ID: #33108-008647.00; Gateway Blvd, Dublin CA	Date Sampled: 04/16/09
	Client Contact: Don Ashton	Date Received: 04/16/09
	Client P.O.:	Date Extracted: 04/16/09
		Date Analyzed: 04/18/09-04/21/09

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C

Analytical methods: SW8015B

Work Order: 0904420

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0904420-001A	MW-1	W	ND	ND	1	97
0904420-002A	MW-2	W	ND	ND	1	98
0904420-003A	MW-3	W	ND	ND	1	98

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

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

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 42684

WorkOrder 0904420

Analyte	EPA Method SW8015Bm			Extraction SW5030B					Spiked Sample ID: 0904375-011A			
	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	88.5	92.3	4.16	92.5	89.2	3.58	70 - 130	20	70 - 130	20
MTBE	ND	10	102	103	0.786	100	103	2.73	70 - 130	20	70 - 130	20
Benzene	ND	10	90	95.1	5.50	104	104	0	70 - 130	20	70 - 130	20
Toluene	ND	10	88.1	94.5	7.02	99.6	100	0.868	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	86.3	93.3	7.73	104	105	1.37	70 - 130	20	70 - 130	20
Xylenes	ND	30	86.5	94.3	8.64	105	106	1.22	70 - 130	20	70 - 130	20
%SS:	104	10	98	98	0	96	100	4.52	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 42684 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0904420-001A	04/16/09 2:35 PM	04/18/09	04/18/09 12:29 AM	0904420-002A	04/16/09 1:25 PM	04/18/09	04/18/09 12:59 AM
0904420-003A	04/16/09 3:40 PM	04/20/09	04/20/09 8:13 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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 42717

WorkOrder: 0904420

Analyte	Extraction SW5030B								Spiked Sample ID: 0904420-003B			
	Sample µg/L	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
tert-Amyl methyl ether (TAME)	ND	10	92.9	92.7	0.150	99	97	1.98	70 - 130	30	70 - 130	30
Benzene	ND	10	114	115	1.39	111	109	2.37	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	81.8	78.1	4.71	86.9	82.8	4.81	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	107	111	4.27	110	109	0.508	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	96.2	95.8	0.433	103	101	2.54	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	94.3	94.9	0.587	94.7	91.3	3.74	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	107	107	0	107	104	3.38	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	100	100	0	101	95.4	5.73	70 - 130	30	70 - 130	30
Toluene	ND	10	120	121	1.01	118	117	1.47	70 - 130	30	70 - 130	30
%SS1:	78	25	87	87	0	77	76	1.87	70 - 130	30	70 - 130	30
%SS2:	86	25	103	104	0.782	105	103	1.48	70 - 130	30	70 - 130	30

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

BATCH 42717 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0904420-001B	04/16/09 2:35 PM	04/17/09	04/17/09 11:07 PM	0904420-002B	04/16/09 1:25 PM	04/17/09	04/17/09 11:49 PM
0904420-003B	04/16/09 3:40 PM	04/18/09	04/18/09 12:32 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 42716

WorkOrder: 0904420

EPA Method: SW8015B		Extraction: SW3510C/3630C							Spiked Sample ID: N/A			
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-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	103	95.9	7.10	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	103	102	1.32	N/A	N/A	70 - 130	30

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

BATCH 42716 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0904420-001A	04/16/09 2:35 PM	04/16/09	04/18/09 2:36 AM	0904420-002A	04/16/09 1:25 PM	04/16/09	04/18/09 3:45 AM
0904420-003A	04/16/09 3:40 PM	04/16/09	04/21/09 5:06 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not 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.