



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
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August 04, 2014

Terri Costello
Woolverton Family Trust
12 Meadowlark Court
Danville, CA 94265

Steven Woolverton
100 Sterling Oaks Drive # 167
Chico, CA 95928

Patrick Costello
Crown Chevrolet Cadillac Isuzu
P. O. Box 2010
Dublin, CA 94568

Subject: Case Closure for SCP Case No. RO0003130 and GeoTracker Global ID T10000005449, 6707
Golden Gate Drive, Dublin, CA 94568

Dear Responsible Parties:

This letter confirms the completion of site investigation actions for the soil, groundwater, and soil vapor investigation at the above referenced site. We are also transmitting the enclosed case closure summary. These documents confirm the completion of the investigation at the subject site with the provision that the information provided to this agency was accurate and representative of existing conditions. Historically, no releases were reported to be associated with the subject site. The subject Site Cleanup Program (SCP) case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Bromodichloromethane was detected at 39 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in one of six soil vapor samples. Although this detection exceeds the San Francisco Regional Water Quality Control Board's Environmental Screening Level (ESL) of $33 \mu\text{g}/\text{m}^3$ it does not appear to be related to an on-site source and is considered anomalous. Based on the Conceptual Site Model (CSM), low concentrations of volatile organic compounds (VOCs) in soil vapor in the south parcel may be related to transport via subsurface utilities with Golden Gate Drive and/or Saint Patrick Way. The south parcel history indicates the site was historically a parking lot and auto servicing activities were not conducted in this area.

Responsible Parties
RO0003130
August 04, 2014
Page 2

If you have any questions, please call Dilan Roe at (510) 567-6767. Thank you.

Sincerely,



Dilan Roe, P.E.
Program Manager – Land Use & Local Oversight Program

Enclosure: Case Closure Summary

cc: Avery Whitmarsh, PG. 180 Grand Ave., Suite 1100, Oakland, CA 94612
(Sent via E-mail to avery.whitmarsh@amec.com)

Cheri McCaulou, San Francisco Regional Water Quality Control Board, 1515 Clay Street, Suite 1400,
Oakland, CA 94612

GeoTracker, eFile

**CASE CLOSURE SUMMARY
SITE CLEANUP PROGRAM**

I. AGENCY INFORMATION

Date: August 04, 2014

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6767
Responsible Staff Person: Dilan Roe	Title: Program Manager - Site Cleanup Program and Local Oversight Program

II. CASE INFORMATION

Site Facility Name: Crown Chevrolet South Parcel		
Site Facility Address: 6707 Golden Gate Drive, Dublin, CA 94568		
RB Case No.: NA	Previous Case STiD No.: NA	LOP Case No.: RO0003130
GeoTracker ID: T10000005449	APN: 941-1500-32-2	
Current Land Use: Vacant, undeveloped parcel		

Responsible Parties	Addresses	Phone Numbers
Terri Costello, Woolverton Family Trust	12 Meadowlark Court Danville, CA 94256	925-984-1426
Steven Woolverton	100 Sterling Oaks Drive, #167 Chico, CA 95928	530-892-9580
Patrick Costello, Crown Chevrolet Cadillac Isuzu	P.O. Box 2010 Dublin, CA 94568	925-895-0769

This Case Closure Summary along with the Case Closure Transmittal letter provides documentation of the case closure. This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Environmental Health (ACEH) website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACEH website.

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release:		
There have been no known releases at the site.		
<p>Low concentrations of Tetrachloroethene (PCE) (below the San Francisco Regional Water Quality Control Board soil gas environmental screening level [ESL] for evaluation of potential vapor intrusion in a residential setting) have been detected in soil vapor in the northwestern corner of the site. Since the site has historically only been used for vehicle parking, the source of the PCE in soil vapor is hypothesized to be from migration of soil gas along utility trenches located in Golden Gate Drive. No PCE was detected in soil vapor in the eastern portion of the site. PCE was not detected in groundwater at the site.</p> <p>Bromodichloromethane was detected in 2011 in one soil vapor sample in the southeastern portion of the site. The concentration was less than the published ESL at the time of sampling, but slightly exceeds its December 2013 updated soil gas ESL. Bromodichloromethane was not detected in any other soil vapor or groundwater samples, including one adjacent groundwater sample, and appears to be an isolated occurrence.</p>		
Primary constituents of concern: <i>Tetrachloroethene (PCE)</i>		
Areas of site investigated for this case: <i>Targeted sampling of soil vapor in the northwestern portion of the site; non-targeted soil and groundwater sampling across site.</i>		
Remediation attempted or completed: <i>No remediation attempted.</i>		
Number of monitoring wells installed: 0	Number of monitoring wells destroyed: 0	Number of monitoring wells remaining: 0
Highest Groundwater Depth Below Ground Surface: NA	Lowest Depth: NA	Flow Direction: east
Most Sensitive Current Groundwater Use: Potential drinking water resource		

Summary of Production Wells in Vicinity: <i>Based on an area well survey conducted in 2012, the nearest identified production wells are approximately 1/3 mile east and 1/2 mile northwest and southeast of the site.</i>	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest Surface Water Name: <i>Alamo Canal, approximately 1,500 feet east of the site.</i>

Use for COCs other than petroleum

GROUNDWATER SPECIFIC CRITERIA					
Has a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame?			Yes		
Site Data			Comments		
Plume Length	0 feet				
Estimated Age of Plume	0 years				
Non-Aqueous Phase Liquid (NAPL)	NA				
Plume Stable or Decreasing	NA				
Distance to Nearest Water Supply Well	NA				
Distance to Nearest Surface Water and Direction	1,500 feet east				
GROUNDWATER CONCENTRATIONS FOR PRIMARY CONSTITUENTS OF CONCERN					
Constituent	Historic Site Maximum (ppb)	Current Site Maximum (ppb)	Constituent	Historic Site Maximum (ppb)	Current Site Maximum (ppb)
Tetrachloroethene	<0.5	<0.5	Benzene	<0.5	<0.5
Trichloroethene	<0.5	<0.5	MTBE	<0.5	<0.5
Bromodichloromethane	39	39			

Use for COCs other than petroleum

VAPOR SPECIFIC CRITERIA	
Are maximum soil vapor concentrations less than relevant screening criteria?	Yes, with the exception of an isolated detection of bromodichloromethane.
Has a determination been made that the potential for vapor intrusion poses a low threat to human health and safety under the current land use?	Yes
Has a determination been made that the potential for vapor intrusion poses a low threat to human health and safety if land use changes to a residential or other conservative land use in the future?	Yes

Use for COCs other than petroleum

DIRECT CONTACT CRITERIA	
Are maximum soil concentrations within the upper 10 feet less than relevant screening criteria?	Yes
Has a determination been made that the potential for direct contact with site contamination in shallow soil (upper 10 feet) poses a low threat to human health and safety under the current land use?	Yes
Has a determination been made that the potential for direct contact with site contamination in shallow soil (upper 10 feet) poses a low threat to human health and safety if land use changes to a residential or other conservative land use in the future?	Yes

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes	
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes	
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.	
Site Management Requirements: NO RESTRICTIONS	
Should corrective action be reviewed if land use changes? No	
Was a deed restriction or deed notification filed? No	Date Recorded: NA

V. ADDITIONAL COMMENTS AND CONCLUSION

Additional Comments: Conclusion: NO RESTRICTIONS. Alameda County Environmental Health staff believe that the site meets the conditions for case closure. No further investigation or cleanup is necessary at this time.
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VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Matthew Soby	Title: Hazardous Materials Technician
Signature: <i>Matthew Soby</i>	Date: August 04, 2014
Approved by: Dilan Roe	Title: LOP and SCP Program Manager
Signature: <i>Dilan Roe</i>	Date: 8/5/2014

VII. REGIONAL BOARD AND PUBLIC NOTIFICATION

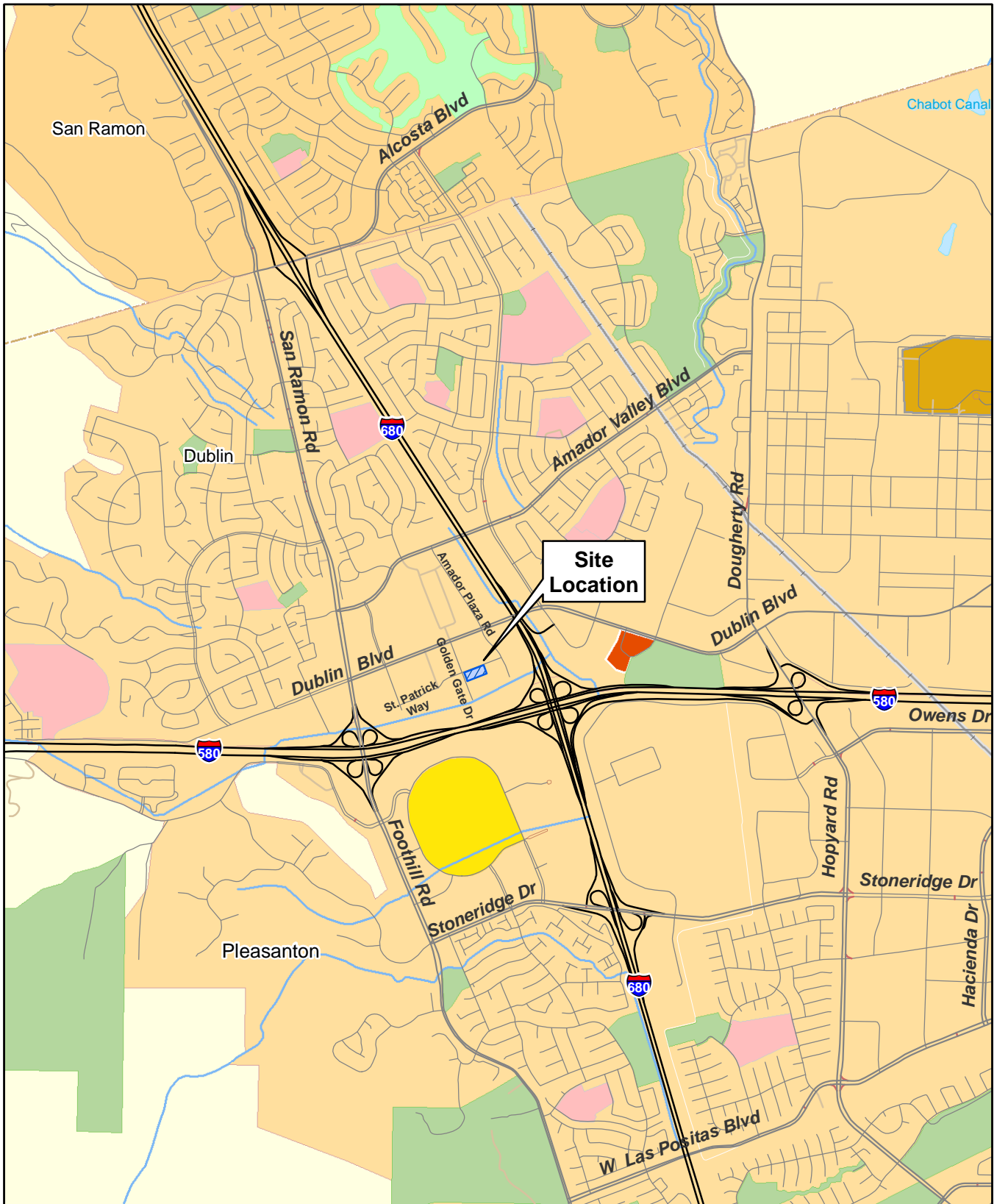
Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Regional Board Notification Date: December 20, 2013	
Public Notification Date: December 20, 2013	

VIII. MONITORING WELL DESTRUCTION

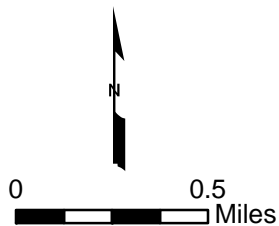
Date Requested by ACEH: NA	Date of Well Destruction Report: NA	
All Monitoring Wells Destroyed: NA	Number Destroyed: NA	Number Retained: NA
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature:	Date:	

Attachments:

1. Figure 1 – Site Vicinity Map
2. Figure 2 – Aerial Photo
3. Figure 3 – Site Plan
4. Figure 4 – PCE in Groundwater and Soil Vapor
5. Table 1 – Summary of Volatile Organic Compounds and Napthalene in Soil Vapor
6. Table 2 – Summary of Volatile Organic Compounds in Soil
7. Table 3 – Summary of Total Petroleum Hydrocarbons and Polynuclear Aromatic Hydrocarbons in Soil
8. Table 4 – Summary Volatile Organic Compounds in Groundwater
9. Table 5 – Summary of Total Petroleum Hydrocarbons and Polynuclear Aromatic Hydrocarbons in Groundwater
10. Table 6 – Summary of Metals in Groundwater



Source: ESRI StreetMap Pro dataset.



SITE VICINITY MAP
 Crown Chevrolet South Parcel
 6707 Golden Gate Drive
 Dublin, California

By: GFS	Date: 07/22/2014	Project No. OD10160070
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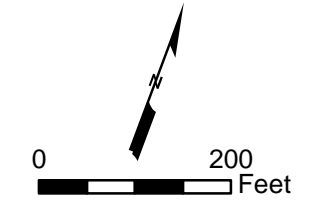
Figure	1
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Source: Esri, DigitalGlobe, GeoEye, Earthstar, Community



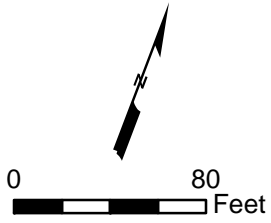
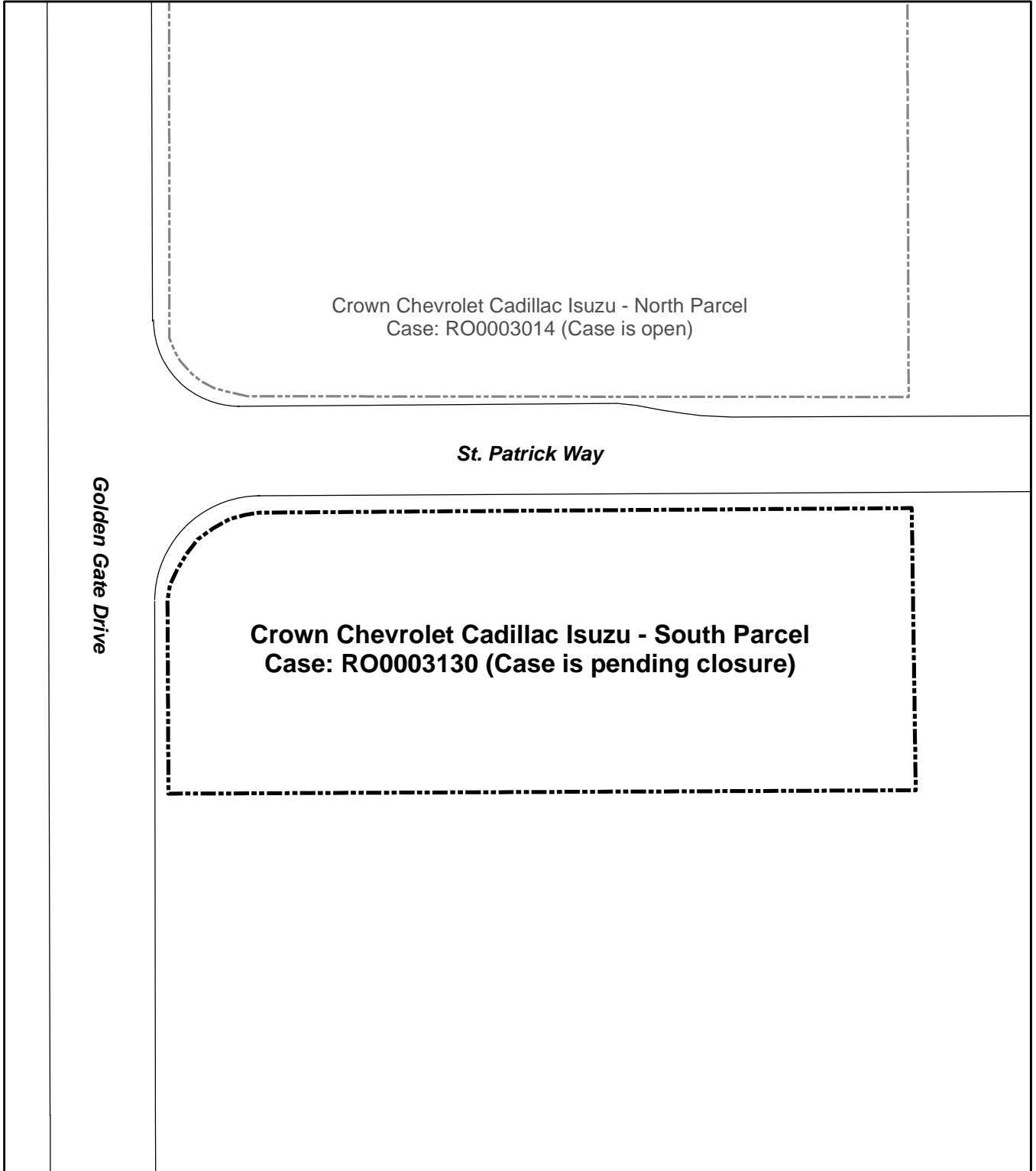
AERIAL PHOTO
Crown Chevrolet South Parcel
6707 Golden Gate Drive
Dublin, California


By: GFS Date: 07/22/2014 Project No. OD11161420.007



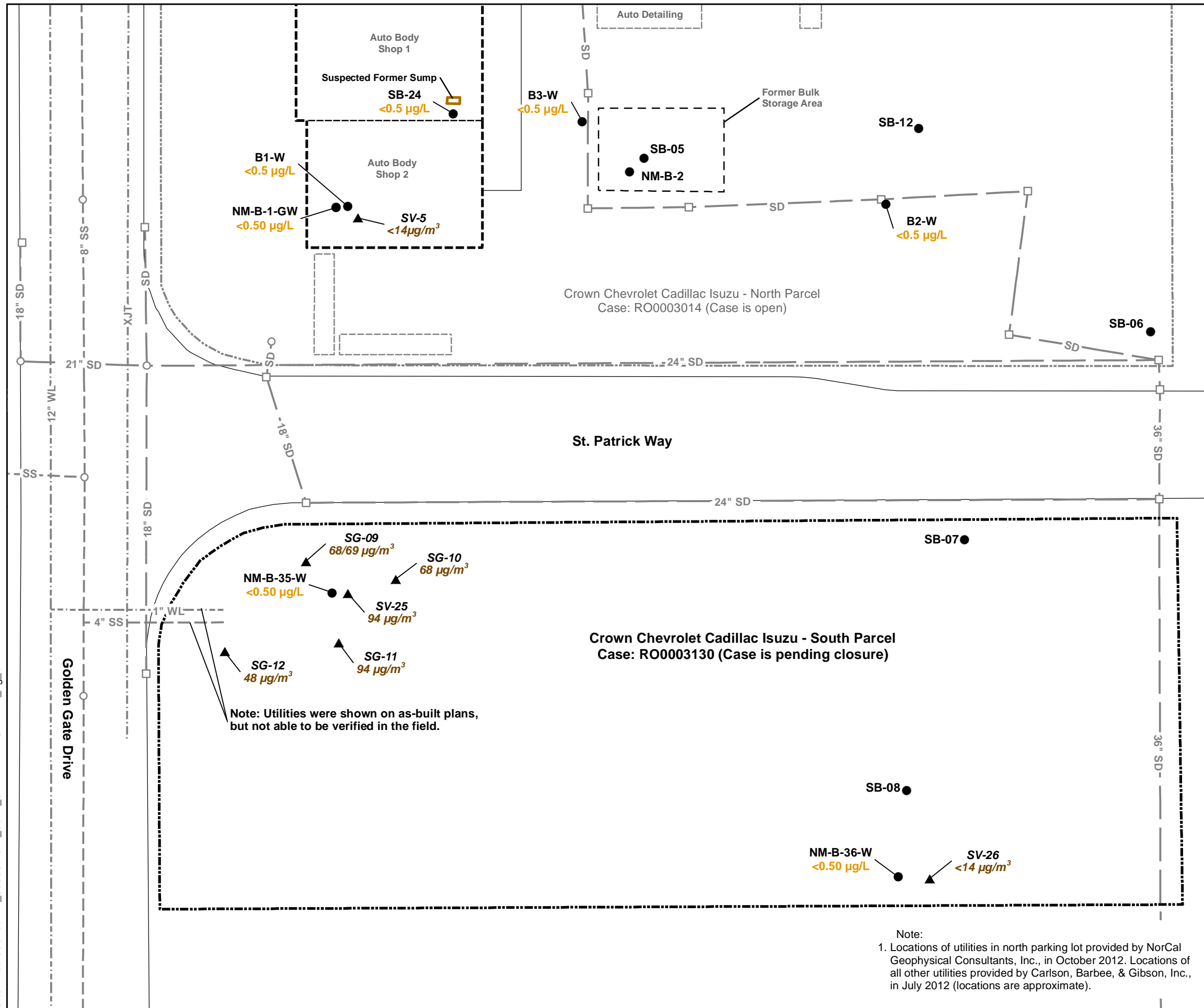
Figure 2

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<p>SITE PLAN Crown Chevrolet South Parcel 6707 Golden Gate Drive Dublin, California</p>		
By: GFS	Date: 07/22/2014	Project No. OD10160070
		Figure 3

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Note: Utilities were shown on as-built plans, but not able to be verified in the field.

Note:
1. Locations of utilities in north parking lot provided by NorCal Geophysical Consultants, Inc., in October 2012. Locations of all other utilities provided by Carlson, Barbee, & Gibson, Inc., in July 2012 (locations are approximate).

Explanation

- Soil and/or grab groundwater sample location
- ▲ Soil vapor sample location

Soil Vapor Data:

- ← Well/Boring ID
- ← PCE concentration in micrograms per cubic meter (µg/m³)

Soil Vapor ESLs (µg/m ³) (Residential Land Use)	
PCE	210

Groundwater Data:

- ← Well/Boring ID
- ← PCE concentration in micrograms per liter (µg/L)

Drinking Water ESL (µg/L)	
PCE	5.0

- - - - - Approximate property line
- Storm drain inlet
- Manhole
- SS - Sanitary sewer line
- SD - Storm drain line
- - XJT - Joint trench
- - WL - Water line

Abbreviations:
 ESL = Environmental Screening Level
 PCE = tetrachloroethene
 µg/L = micrograms per liter
 µg/m³ = micrograms per cubic meter
 < = not detected at or above laboratory reporting limit shown

APPROXIMATE SCALE IN FEET

TABLE 1
SUMMARY OF VOCs AND NAPHTHALENE IN SOIL VAPOR
 Crown Chevrolet South Parcel
 6707 Golden Gate Drive
 Dublin, California
 Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Location	Sample ID	Sample Type	Depth (feet bgs)	Date	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	2-Butanone	Carbon Disulfide	Chloro-benzene	Chloro-form	Cyclo-hexane	Dibromo-chloro-methane	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Dichloro-difluoro-methane	1,1-Dichloro-ethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Ethanol	Ethyl acetate	Ethyl-benzene	4-Ethyl-toluene	
Ninyo & Moore August-September 2011 Investigation¹																												
SV-25	SV-25	Primary	4.5-5.0	8/18/2011	<120	12	<14	<7.9	<150	<6.3	<9.4	20	<180	<17	<12	<12	<12	<10	<8.2	<8.2	<8.1	<8.1	<8.1	<96	<7.3	<8.8	<10	
SV-26	SV-26	Primary	4-5	8/16/2011	280	27	39	<7.9	310	<6.3	<9.4	71	<180	<17	<12	<12	<12	<10	<8.2	<8.2	<8.1	<8.1	<8.1	<96	<7.3	47	<10	
AMEC September 2012 Investigation²																												
SG-09	SG-09	Primary	4.5-5.5	9/5/2012	<29	<3.9	<8.1	<47	<14	<15	<5.6	<5.9	<4.2	<10	<7.3	<7.3	<7.3	<6.0	<4.9	<4.9	<4.8	<4.8	<4.8	<9.1	NA	<5.2	<5.9	
	SG-09B	Duplicate	4.5-5.5	9/5/2012	<29	<3.9	<8.3	<48	<14	<15	<5.7	<6.0	<4.2	<10	<7.4	<7.4	<7.4	<6.1	<5.0	<5.0	<4.9	<4.9	<4.9	<9.3	NA	<5.4	<6.1	
SG-10	SG-10	Primary	4.5-5.5	9/5/2012	29 J	<3.8	<8.0	<46	<14	<15	<5.5	<5.8	<4.1	<10	<7.2	<7.2	<7.2	<5.9	<4.8	<4.8	<4.7	<4.7	<4.7	<9.0	NA	<5.2	<5.8	
SG-11	SG-11	Primary	4.5-5.5	9/5/2012	<27	15	<7.7	<44	<14	<14	<5.3	<5.6	4.5	<9.8	<6.9	<6.9	<6.9	<5.7	<4.6	<4.6	<4.5	<4.5	<4.5	<8.6	NA	<5.0	<5.6	
SG-12	SG-12	Primary	7-8	9/5/2012	<28	<3.8	<8.0	<46	<14	<15	<5.5	<5.8	<4.1	<10	<7.2	<7.2	<7.2	<5.9	<4.8	<4.8	<4.7	<4.7	<4.7	<9.0	NA	<5.2	<5.8	
Environmental Screening Levels (residential land use)³					16,000,000	42	33	2,600	NL	NL	520,000	230	NL	NL	100,000	NL	110	NL	760	58	100,000	3,700	31,000	NL	NL	490	NL	

Notes:

- Ninyo & Moore, 2011, Additional Phase II Environmental Site Assessment, Crown Chevrolet, 7544 Dublin Boulevard, Dublin, California, September 16.
- Soil vapor samples were collected by AMEC in September 2012 and analyzed by Air Toxics, Ltd., of Folsom, California, using U.S. EPA Method TO-15. Selected samples were additionally analyzed for helium using ASTM-D 1946.
- California Regional Water Quality Control Board, San Francisco Region, 2013, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table E-2. Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns, Residential Exposure, December.

Abbreviations:

- █ = shading indicates sample result above environmental screening level
- < = not detected at or above the laboratory reporting limit shown
- bgs = below ground surface
- J = the analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample
- NA = not analyzed
- NL = not listed
- PCE = tetrachloroethene
- TCE = trichloroethene
- VOCs = volatile organic compounds

TABLE 1
SUMMARY OF VOCs AND NAPHTHALENE IN SOIL VAPOR
 Crown Chevrolet South Parcel
 6707 Golden Gate Drive
 Dublin, California
 Results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Heptane	Hexane	Isopropyl- benzene	Methyl tert- butyl ether	Methylene Chloride	4-Methyl-2- pentanone	Naphthalene	Propene	n-Propyl- benzene	tert-Butyl alcohol	PCE	Tetra- hydro- furan	Toluene	1,1,1- Trichloro- ethane	TCE	Trichloro- fluoro- methane	1,2,4- Trimethyl- benzene	1,3,5- Trimethyl- benzene	2,2,4- Trimethyl- pentane	Vinyl chloride	m,p-Xylene	o- Xylene	Xylenes, Total	Leak Detection Compounds		
																							Isopropyl Alcohol	Freon 134A	Helium (%)
<210	<180	NA	<7.3	<7.1	17	<11	<88	NA	<62	94	400	25	28	<11	<11	12	<10	NA	<5.2	NA	NA	47	<10	NA	NA
<210	<180	NA	<7.3	<7.1	13	<11	<88	NA	100	<14	4,200	140	<11	<11	<11	10	10	NA	<5.2	NA	NA	250	<10	NA	NA
<5.0	<4.3	<5.9	<4.4	<42	<5.0	<25	NA	<5.9	NA	68	<3.6	11	19	<6.5	<6.8	9.9	<5.9	<5.6	<3.1	14	5.6	NA	NA	NA	NA
<5.1	<4.4	<6.1	<4.4	<43	<5.0	<26	NA	<6.1	NA	69	<3.6	11	18	<6.6	<6.9	10	<6.1	<5.8	<3.2	14	6.1	NA	NA	NA	NA
<4.9	<4.2	<5.8	<4.3	<41	<4.9	<25	NA	<5.8	NA	68	<3.5	8.7	24	<6.4	<6.7	<5.8	<5.8	<5.6	<3.0	10	<5.2	NA	NA	NA	NA
<4.7	<4.0	<5.6	<4.1	<40	<4.7	<24	NA	<5.6	NA	94	<3.4	9.4	11	<6.2	<6.4	10	<5.6	5.5	<2.9	12	<5.0	NA	NA	NA	<0.11
<4.9	<4.2	<5.8	<4.3	<41	<4.9	<25	NA	<5.8	NA	48	<3.5	5.2	14	<6.4	<6.7	8.4	<5.8	<5.6	<3.0	12	<5.2	NA	NA	NA	NA
NL	NL	NL	4,700	2,600	NL	36	NL	NL	NL	210	NL	160,000	2,600,000	300	NL	NL	NL	NL	16	52,000	NL	52,000	NL	NL	NL

TABLE 2

SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL

Crown Chevrolet South Parcel
6707 Golden Gate Drive
Dublin, California

Concentrations reported in micrograms per kilogram (µg/kg)

Location	Sample ID	Depth (feet bgs)	Date	Benzene	Bromo-benzene	n-Butyl-benzene	sec-Butyl-benzene	Chloro-benzene	2-Chloro-toluene	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	Naphthalene (8260B)	PCE	1,2,4-Trichloro-benzene	TCE	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes, Total	All Other VOCs
AMEC September 2010 Investigation¹																						
SB-07	SB-07-13.2	13.2	9/29/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-08	SB-08-15.7	15.7	9/29/2010	<4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.8	NA	NA	NA	NA	NA	NA	<9.6	ND
Environmental Screening Level (Residential Land Use)²				44	NL	NL	NL	1,500	NL	1,100	7,400	590	190	3,300	1,300	370	1,500	460	NL	NL	2,300	--

Notes

1. AMEC, 2011, Revised Soil and Groundwater Investigation Report, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, April 4. California, August
2. California Regional Water Quality Control Board, San Francisco Region, 2013, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table A-1. Shallow Soil Screening Level (≤3m bgs), Residential Land Use (groundwater is a current or potential drinking water resource), December. The selected screening value is the lowest of those among urban ecotoxicity, human health (direct exposure), and potential leaching to groundwater.

Abbreviations

- = not applicable
- < = not detected at or above the laboratory reporting limit shown
- bgs = below ground surface
- NA = not analyzed
- µg/kg = micrograms per kilogram
- VOCs = volatile organic compounds

TABLE 3

**SUMMARY OF TOTAL PETROLEUM HYDROCARBONS AND
POLYNUCLEAR AROMATIC HYDROCARBONS IN SOIL**

Crown Chevrolet South Parcel
6707 Golden Gate Drive
Dublin, California

Concentrations reported in milligrams per kilogram (mg/kg)

Location	Sample ID	Depth (feet bgs)	Date	TPH					PAHs	
				TPHg	TPHd	TPHmo	TPHho	TPHss	Naphthalene	All Other PAHs
AMEC September 2010 Investigation¹										
SB-07	SB-07-13.2	13.2	9/29/2010	NA	<1.0	<50	NA	NA	<0.005 UJ	ND
SB-08	SB-08-15.7	15.7	9/29/2010	<0.24	1.1	<49	NA	NA	0.0056 J	ND
Environmental Screening Level (Residential Land Use)²				100	100	100	370	83	1.2	--

Notes

1. AMEC, 2011, Revised Soil and Groundwater Investigation Report, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, April 4. California, August 16.
2. California Regional Water Quality Control Board, San Francisco Region, 2013, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table A-1. Shallow Soil Screening Level (≤3 m bgs), Residential Land Use (groundwater is a current or potential drinking water resource), December. The selected screening value is the lowest of those among urban ecotoxicity, human health (direct exposure), and potential leaching to groundwater.

Abbreviations

-- = not applicable
 < = not detected at or above the laboratory reporting limit shown
 bgs = below ground surface
 mg/kg = milligrams per kilogram
 NA = not analyzed
 ND = not detected
 PAHs = polynuclear aromatic hydrocarbons
 TPH = total petroleum hydrocarbons
 TPHd = total petroleum hydrocarbons quantified as diesel
 TPHg = total petroleum hydrocarbons quantified as gasoline
 TPHmo = total petroleum hydrocarbons quantified as motor oil
 J = the analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample
 UJ = the analyte was not detected at a level greater than or equal to the quantitation limit shown; the quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 4

SUMMARY VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

Crown Chevrolet South Parcel
6707 Golden Gate Drive
Dublin, California

Concentrations reported in micrograms per liter (µg/L)

Location	Sample ID	Sample Type	Date	Acetone	Benzene	Bromo-dichloro-methane	Chloro-benzene	Chloro-form	Dibromo-chloro-methane	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Ethyl-benzene	Methyl tert-butyl ether	Naphthalene	n-Propyl-benzene	PCE	Toluene	1,2,4-Trichloro-benzene	TCE	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Xylenes, Total	All Other VOCs	
AMEC September 2010 Investigation¹																												
SB-07	SB-07	Primary	9/29/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-08	SB-08	Primary	9/29/2010	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	<0.5	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	<1.0	NA
Ninvo & Moore August-September 2011 Investigation²																												
NM-B-35	NM-B-35-W	Primary	8/10/2011	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	ND
NM-B-36	NM-B-36-W	Primary	8/10/2011	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	ND
Environmental Screening Level (groundwater is a potential or current drinking water resource)				1,500	1.0	80	25	80	80	10	65	5	6	6	10	30	5	6.1	NL	5	40	5	5	NL	NL	20	--	

Notes

- AMEC, 2011. Revised Soil and Groundwater Investigation Report, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, April 4.
- Ninvo & Moore, 2011. Additional Phase II Environmental Site Assessment, Crown Chevrolet, 7544 Dublin Boulevard, Dublin, California, September 16.
- California Regional Water Quality Control Board, San Francisco Region, 2013. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table F-1a, Groundwater Screening Levels (groundwater is a current or potential drinking water source), December. The selected screening value is the lowest of those among drinking water goals, aquatic habitat goals, taste and odor considerations, evaluation of potential vapor intrusion into buildings.

Abbreviations

- = not applicable
- < = not detected at or above the laboratory reporting limit shown
- NA = not analyzed
- PCE = tetrachloroethene
- TCE = trichloroethene
- µg/L = micrograms per liter
- VOCs = volatile organic compounds

TABLE 5

**SUMMARY OF TOTAL PETROLEUM HYDROCARBONS AND
POLYNUCLEAR AROMATIC HYDROCARBONS IN GROUNDWATER**

Crown Chevrolet South Parcel
6707 Golden Gate Drive
Dublin, California

Concentrations reported in micrograms per liter (µg/L)

Location	Sample ID	Sample Type	Date											PAHs		
				TPHg	TPHd (unfiltered)	TPHd (filtered) ¹	TPHmo (unfiltered)	TPHmo (filtered) ¹	TPHho (unfiltered)	TPHho (filtered) ¹	TPHss	TPH-Kerosene	TPH-Bunker Oil	Naphthalene	All other PAHs	
AMEC September 2010 Investigation²																
SB-07	SB-07	Primary	9/29/2010	NA	10 J	<52	<310	<310	NA	NA	NA	NA	NA	NA	<1.0	ND
SB-08	SB-08	Primary	9/29/2010	<50	<51	<52	<310	<310	NA	NA	NA	NA	NA	NA	<1.0	ND
Ninyo & Moore August-September 2011 Investigation³																
NM-B-35	NM-B-35-W	Primary	8/10/2011	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NM-B-36	NM-B-36-W	Primary	8/10/2011	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Environmental Screening Level (groundwater is a potential or current drinking water resource)⁴				100	100	100	100	100	100	100	100	100	100	100	6.1	--

Notes:

1. Extra sample volume for samples for TPHd, TPHmo, and TPHho analyses was filtered at the laboratory prior to analysis using a 0.7-micron glass fiber filter.
2. AMEC, 2011, Revised Soil and Groundwater Investigation Report, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, April 4.
3. Ninyo & Moore, 2011, Additional Phase II Environmental Site Assessment, Crown Chevrolet, 7544 Dublin Boulevard, Dublin, California, September 16.
4. California Regional Water Quality Control Board, San Francisco Region, 2013, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table F-1a, Groundwater Screening Levels (groundwater is a current or potential drinking water source), December. The selected screening value is the lowest of those among drinking water goals, aquatic habitat goals, and taste and odor considerations.

Abbreviations

-- = not applicable

< = not detected at or above the laboratory reporting limit shown

J = the analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample

NA = not analyzed

PAHs = polynuclear aromatic hydrocarbons

TPHd = total petroleum hydrocarbons quantified as diesel

TPHg = total petroleum hydrocarbons quantified as gasoline

TPHmo = total petroleum hydrocarbons quantified as motor oil

µg/L = micrograms per liter

TABLE 6

SUMMARY OF METALS IN GROUNDWATER

Crown Chevrolet South Parcel
 6707 Golden Gate Drive
 Dublin, California

Concentrations reported in micrograms per liter (µg/L)

Location	Sample ID	Location	Date	Antimony	Arsenic	Total Chromium ¹	Dissolved Chromium ²	Hexavalent Chromium
AMEC Geomatrix Fall 2010 Investigation³								
SB-07	SB-07	SB-07	9/29/2010	NA	NA	44	2.8 J-	1.7
SB-08	SB-08	SB-08	9/29/2010	NA	NA	23	3.3 J-	1.1
Screening Level				6	36	50⁴	50⁴	10⁵

Notes

1. The work plan specified that the samples would be analyzed for dissolved total chromium; however, the laboratory initially performed the analyses with unfiltered samples. Therefore, the resultant total chromium values likely overestimate the concentration of chromium that is dissolved in groundwater.
2. The work plan specified that the samples would be analyzed for dissolved total chromium; however, the laboratory initially performed the analyses with unfiltered samples. After this error was noted, AMEC requested that the analytical laboratory filter some remaining sample volume (from a different, unpreserved container) and perform a dissolved total chromium analysis on each sample. However, since the unfiltered samples were stored in unpreserved glass containers, rather than being filtered and then stored in preserved plastic containers as required by the analytical method, the dissolved total chromium results were qualified as estimated and may be biased low.
3. AMEC, 2011, Revised Soil and Groundwater Investigation Report, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, April 4.
4. California Regional Water Quality Control Board, San Francisco Region, 2013, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table F-1a, Groundwater Screening Levels (groundwater is a current or potential drinking water source), December. The selected screening value is the lowest of those among drinking water goals, aquatic habitat goals, and taste and odor considerations.
5. California maximum contaminant level (MCL) for hexavalent chromium, effective July 1, 2014.
<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/MCLsandPHGs.aspx>.

Abbreviations

- = not applicable
- J- = the result is an estimated quantity and may be biased low
- NA = not analyzed
- µg/L = micrograms per liter