



May 29, 2014

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By Alameda County Environmental Health at 4:26 pm, Jun 02, 2014

Timothy L. Bishop,
P.G.
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
Suite 5213
San Ramon, CA 94583
Tel (925) 790-6463
TimBishop@chevron.com

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Supplemental Data for the Focused Conceptual Site Model

500 Bancroft Avenue, San Leandro, California
Fuel Leak Case No.: RO0000499

Dear Mr. Nowell,

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact me at (925) 790-6463.

Sincerely,

A handwritten signature in blue ink that reads "Tim Bishop".

Timothy Bishop
Union Oil of California – Project Manager

Attachment
Supplemental Data for the Focused Conceptual Site Model



ARCADIS U.S., Inc.
2000 Powell Street
7th Floor
Emeryville
California 94608
Tel 510.652.4500
Fax 510.652.4906
www.arcadis-us.com

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject:
Supplemental Data for the Focused Conceptual Site Model
500 Bancroft Avenue, San Leandro, California
Fuel Leak Case No.: RO0000499

ENVIRONMENT

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company's affiliate, Union Oil Company of California ("Union Oil"), ARCADIS U.S., Inc. (ARCADIS) is pleased to submit supplemental data for the Focused Conceptual Site Model (CSM) for the following facility (site):

Date:
May 29, 2014

Contact:
Katherine Brandt

<u>Facility No.</u>	<u>Case No.</u>	<u>Location</u>
5367	RO0000499	500 Bancroft Avenue San Leandro, California

Phone:
510.596.9675

Email:
Katherine.Brandt@
arcadis-us.com

Alameda County Department of Environmental Health (ACEH), Union Oil, and ARCADIS attended a joint meeting on April 24, 2014 to discuss action items to move this case toward closure. During this meeting, the Focused CSM submitted to the ACEH on April 15, 2014 was reviewed. Union Oil presented supplemental data, including the total purgeable petroleum hydrocarbons (TPPH) plume travel path; TPPH is also referred to as total petroleum hydrocarbons as gasoline (TPHg).

Our ref:
B0047943

The TPPH plume travel path data are presented on Figure 1. The average and 90th percentile TPPH plume lengths are based on the State Water Resources Control Board's (SWRCB's) Technical Justification for Groundwater Media-Specific Criteria dated April 24, 2012. Using the plume lengths presented in the SWRCB document in conjunction with the rose diagram for groundwater flow direction and delineation provided by monitoring wells MW-7 and MW-9, an area of potential migration was defined. As shown on Figure 1, there are three wells identified within the area of potential migration: wells 18, 19, and 20.

On April 4 and May 1, 2014 ARCADIS conducted interviews with the current property tenant to confirm the presence and use of the three wells within the area of plume migration. The results of these interviews are summarized below:

- The use of well 18 is not known as the current tenant of the property located at 560 Dowling Boulevard was not available at the time of the interview.
- On April 4, 2014, ARCADIS interviewed the current tenant on the property located at 580 Dowling Boulevard regarding well 20. The tenant stated there is not a well present on the property.
- On May 1, 2014, ARCADIS left a note at the property located at 566 Dowling Boulevard requesting information regarding well 19. On May 6, 2014, the current tenant confirmed there is not a well located on the property.
- As of this letter, no other property owner has responded to the inquiry.

If you have any questions, please contact Katherine Brandt at 510.596.9675.

Sincerely,

ARCADIS



Katherine Brandt
Certified Project Manager



David W. Lay, P.G., C.P.G.
Principal Geologist



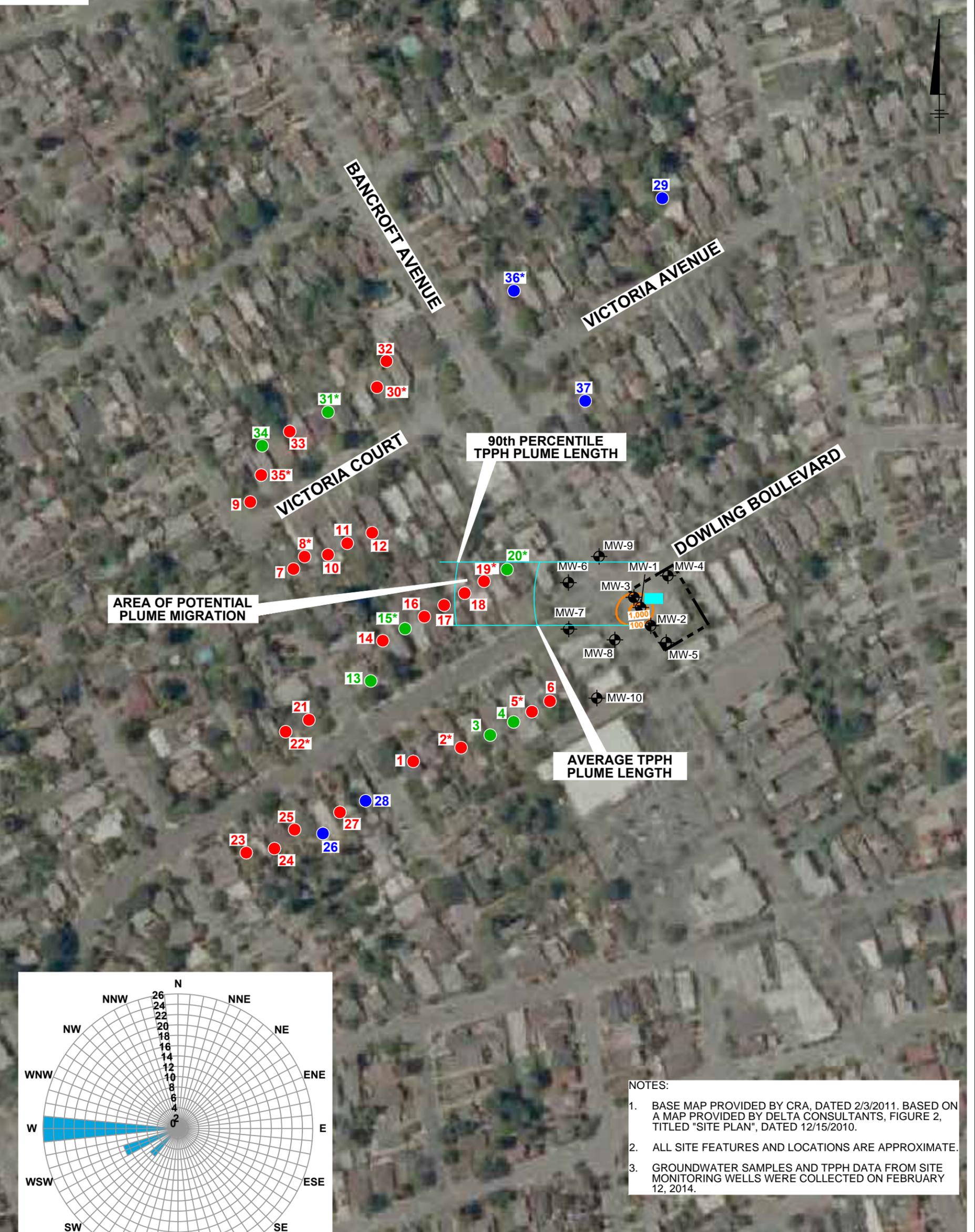
Copies:

Mr. Timothy Bishop, Union Oil (electronic copy only)
Netaj LLC, Property Owners

Attachments:

Supplemental Data for the Focused Conceptual Site Model:
Figure 1: Research-Based TPPH Plume Migration Analysis

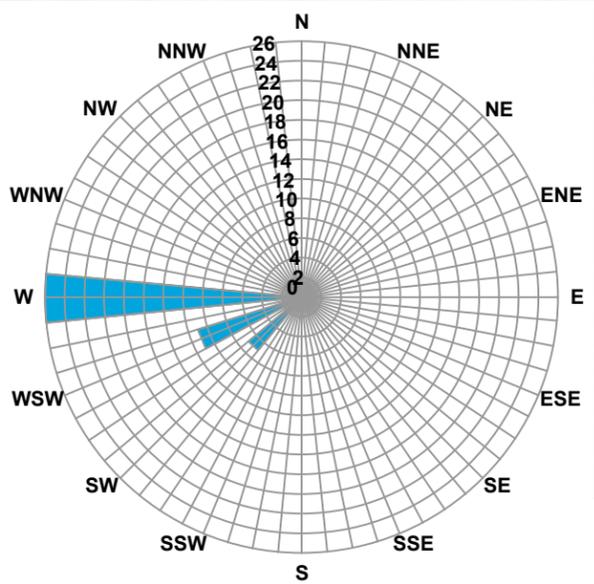
XREFS: IMAGES: PROJECTNAME: ---
 47943X01 San Leandro 2012 with aerial.jpg



AREA OF POTENTIAL PLUME MIGRATION

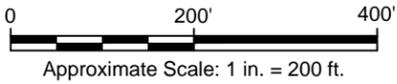
90th PERCENTILE TPPH PLUME LENGTH

AVERAGE TPPH PLUME LENGTH



- NOTES:
1. BASE MAP PROVIDED BY CRA, DATED 2/3/2011. BASED ON A MAP PROVIDED BY DELTA CONSULTANTS, FIGURE 2, TITLED "SITE PLAN", DATED 12/15/2010.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 3. GROUNDWATER SAMPLES AND TPPH DATA FROM SITE MONITORING WELLS WERE COLLECTED ON FEBRUARY 12, 2014.

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., SAN LEANDRO, CALIFORNIA, 2012.



LEGEND

- PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- IRRIGATION WELL
- WATER WELL
- UNKNOWN WELL DESIGNATION
- SOURCE AREA
- TPPH CONCENTRATION CONTOUR (μg/L) (2/12/2014)
- TPPH TOTAL PURGEABLE PETROLEUM HYDROCARBONS
- μg/L MICROGRAMS PER LITER
- * INDICATES RESIDENT STATED WELL IS NOT IN USE OR NOT PRESENT ON THE PROPERTY

REFERENCE FOR PLUME LENGTH: STATE WATER RESOURCES CONTROL BOARD. 2012. TECHNICAL JUSTIFICATION FOR GROUNDWATER MEDIA-SPECIFIC CRITERIA. APRIL 24.

UNION OIL COMPANY OF CALIFORNIA
 76 SERVICE STATION 5367
 500 BANCROFT AVENUE
 SAN LEANDRO, CALIFORNIA

RESEARCH-BASED TPPH PLUME MIGRATION ANALYSIS

