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10:47 am, Oct 22, 2012
Alameda County
Environmental Health

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Ms. Dilan Roe, P.E.
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

ENVIRONMENT

Subject:
Proposed Additional Remedial Activities
Former BP Service Station No. 11109
4280 Foothill Boulevard
Oakland, California

Date:
October 11, 2012

Dear Ms. Roe:

Contact:
Hollis Phillips

ARCADIS U.S., Inc (ARCADIS) has prepared this letter on behalf of BP Remediation Management, a BP affiliated company, for the former BP service station listed below.

Phone:
415.432.6903

<u>BP Facility No.</u>	<u>ACEH Site No.</u>	<u>Location</u>
11109	RO0000426	4280 Foothill Boulevard Oakland, California

Email:
hollis.phillips@arcadis-us.com

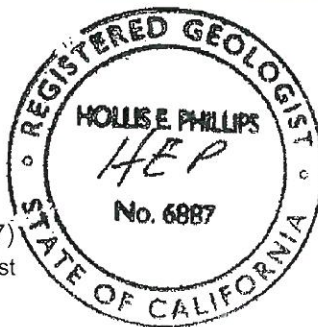
Our ref:
GP09BPNA.C106.B0000

I declare, to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct. If you have any questions or comments regarding the content of this letter, please contact Hollis Phillips by telephone at 415.432.6903 or by e-mail at hollis.phillips@arcadis-us.com.

Sincerely,

ARCADIS U.S., Inc.

Hollis E. Phillips, P.G. (No. 6887)
Project Manager/ Senior Geologist



Copies:
GeoTracker upload

Imagine the result



Dilan Roe, P.E.
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Subject:
Proposed Additional Remedial Activities
Former BP Service Station No. 11109
4280 Foothill Boulevard
Oakland, California
ACEH Case #RO0000426

ENVIRONMENT

Dear Ms. Roe:

ARCADIS U.S., Inc. (ARCADIS) is submitting this letter to provide a summary of remedial activities conducted at the above referenced site and to propose additional supplemental activities. On September 28, 2012, ARCADIS discussed the proposed remedial activities with Alameda County Environmental Health (ACEH); ACEH requested a formal submittal of the proposed activities.

Date:
October 11, 2012

Contact:
Hollis Phillips

Phone:
415.432.6903

Email:
hollis.phillips@arcadis-us.com

Summary of Remedial Activities

In accordance with the ACEH approved *Feasibility Study and Corrective Action Plan* (FS/CAP; ARCADIS 2011) and the subsequent *Revised Proposed Pilot Study Activities* letter (ARCADIS 2012) ARCADIS implemented and continuously operated a mobile dual-phase extraction (DPE) treatment at the site from July 17 to July 30. Water and soil vapor were extracted from wells MW-5, MW-10, MW-11, and MW-12 (see Attachment A). Approximately 7,200 gallons of water and 240 pounds of hydrocarbons (as vapor) were removed from the subsurface. A complete summary of the remedial activities conducted at the site will be provided following implementation of the proposed additional activities described below.

Our ref:
GP09BPNA.C106

During the first quarter 2012 semiannual groundwater monitoring event, conducted prior to the implementation of the mobile DPE event, separate phase hydrocarbon (SPH) was detected in site wells with the following thicknesses: 0.03 feet at MW-5, 0.32 feet at MW-10 and 0.32 feet at MW-12. During the third quarter 2012 semiannual groundwater monitoring event (conducted after the DPE event and to be summarized in the forth coming *Third Quarter 2012 Monitoring Report*) SPH was

Imagine the result

detected in site wells with the following thicknesses: 1.40 feet at MW-5, 0.01 feet at MW-10, and 1.43 feet at MW-12.

Proposed Additional Remedial Activities

Based on the increase in SPH at the site following the implementation of the DPE event, ARCADIS proposes to conduct free product bail down. ARCADIS proposes to bail product from wells that contain SPH (MW-5, MW-10, and MW-12) on a monthly basis until December 2012. The SPH will be bailed in order to better understand the static SPH level following the DPE event and to determine if SPH was liberated from saturated soils during the DPE event. If after bailing, SPH does not return, this would indicate that residual drainable NAPL resides in submerged soils. If SPH continues to return, this would indicate residual NAPL resides in smear zone soils near the surface of the water table. Understanding where residual NAPL resides will allow for a more effective implementation of the CAP.

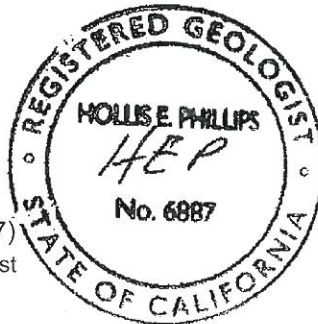
If you have any questions or comments, please do not hesitate to contact me at (415) 432-6903 or by e-mail at hollis.phillips@arcadis-us.com.

Sincerely,

ARCADIS U.S., Inc.



Hollis E. Phillips, P.G. (No. 6887)
 Project Manager/ Senior Geologist



Attachment A-Site Plan

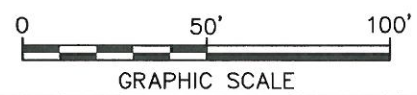
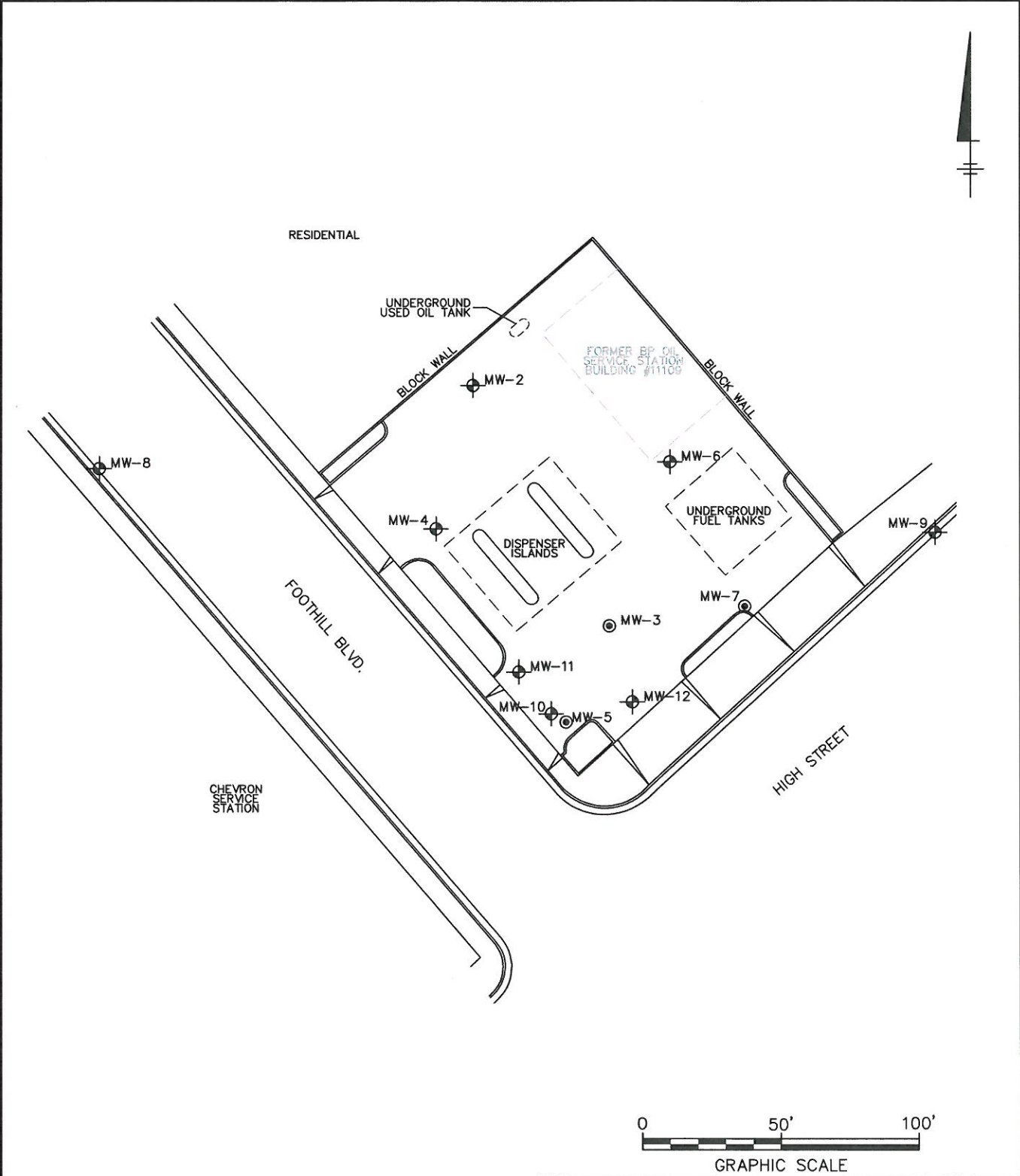
Copies:
 Geotracker

References

ARCADIS U.S., Inc. (ARCADIS), 2011. *Feasibility Study and Corrective Action Plan, Former British Petroleum Service Station No.11109, 4280 Foothill Boulevard Oakland, California, ACEH Case #RO0000426.* January 14.

ARCADIS U.S., Inc. (ARCADIS), 2012. *Revised Proposed Pilot Study Activities, Former British Petroleum Service Station No.11109, 4280 Foothill Boulevard Oakland, California, ACEH Case #RO0000426.* February 28.

CITY: PETALUMA, CA DIV/GRP: ENV. DR: J. HARRIS, LD: PIC: PM: H. PHILLIPS, TM: B. MCKENNA, LXR: (ORION) OFF: REF: 11/20/2009 8:42 AM, BY: HARRIS, JESSICA
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 PROJECTNAME: ---
 XREFS: IMAGES: GP09BPNACT106-X01 GP09BPNACT106-X02



- LEGEND**
- MONITORING WELL
 - RECOVERY WELL

FORMER BP STATION #11109
 4280 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA

SITE PLAN

NOTE: BASE MAP PROVIDED BY BROADBENT & ASSOCIATES, INC., DATED 10/26/2009, REFERENCE NO. 06-88-646, AT A SCALE OF 1" = 40'.



Attachment A

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_REPORT FILE

SUCCESS

Your GEO_REPORT file has been successfully submitted!

<u>Submittal Type:</u>	GEO_REPORT
<u>Report Title:</u>	Proposed Additional Remedial Activities 101612
<u>Report Type:</u>	Correspondence
<u>Report Date:</u>	10/11/2012
<u>Facility Global ID:</u>	T0600100217
<u>Facility Name:</u>	BP #11109
<u>File Name:</u>	RO0426 -BP 11109-SPH baildown letter.pdf
<u>Organization Name:</u>	ARCADIS
<u>Username:</u>	ARCADISBP
<u>IP Address:</u>	216.207.98.101
<u>Submittal Date/Time:</u>	10/16/2012 1:41:00 PM
<u>Confirmation Number:</u>	2907840788

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