



**Carryl MacLeod**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6101 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 790-6506  
CMacleod@chevron.com

February 20, 2015

**RECEIVED**

*By Alameda County Environmental Health at 2:29 pm, Feb 23, 2015*

Mr. Mark Detterman  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Dear Mr. Detterman:

Attached for your review is the *Revised Data Gap Work Plan Addendum* for former Chevron-branded service station 91723, located at 9757 San Leandro Street in Oakland, California. This document was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 356-6124 ext. 238, or [travis.flora@stantec.com](mailto:travis.flora@stantec.com).

Sincerely,

A handwritten signature in black ink that reads "Carryl MacLeod".

**Carryl MacLeod**  
Project Manager



**Stantec Consulting Services Inc.**  
15575 Los Gatos Boulevard, Building C, Los Gatos CA 95032-2569

February 20, 2015  
File: 211602332

**Attention: Mr. Mark Detterman, P.G., C.E.G.**  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Reference: Revised Data Gap Work Plan Addendum**  
Former Chevron-Branded Service Station 91723  
9757 San Leandro Street, Oakland, California

Dear Mr. Detterman,

On behalf of Chevron Environmental Management Company (Chevron), Stantec Consulting Services Inc. (Stantec) submitted the August 15, 2014 *Response to Technical Comments and Data Gap Work Plan Addendum* (Addendum) for the above referenced site (the Site; shown on **Figure 1**). This Addendum was submitted in response to Alameda County Environmental Health's (ACEH) May 29, 2014 letter to Chevron entitled *Request for Data Gap Work Plan Addendum*. ACEH reviewed the Addendum and case file and requested a meeting to discuss concerns with the proposed approach, in an email dated October 1, 2014 (**Attachment A**). In the November 7, 2014 meeting, ACEH requested a revised work plan addendum addressing their concerns as expressed during the meeting. In a January 13, 2015 follow-up email, ACEH requested that the revised work plan addendum be submitted by February 20, 2015 (**Attachment A**).

Stantec proposes the following additional work to address ACEH's concerns regarding perceived data gaps impeding Site closure. ACEH's concerns, as Stantec understands them, are provided in bold and followed with Stantec's response in italics. The additional scope of proposed work will follow the sampling and analysis procedures described in Stantec's August 15, 2014 Addendum.

**1. ACEH is concerned that there was a waste oil underground storage tank (UST) release at the Site and that it could have caused a secondary release to groundwater.**

*To address this concern, Stantec proposes that soil boring SB-24 (proposed directly adjacent to, and down-gradient from, the former waste oil UST; shown on **Figure 1**) be advanced to approximately 12 feet below ground surface (bgs) or approximately 2 to 3 feet into first-encountered groundwater (which was approximately 10 feet bgs during Third Quarter 2014). A grab-groundwater sample will then be collected from boring SB-24. Following advancement of boring SB-24 to total depth, a temporary pre-packed groundwater monitoring well casing will be installed, and a groundwater sample will be collected using a disposable bailer. Prior to groundwater sampling, depth-to-groundwater will be measured and used to calculate the three casing-volumes that will be purged from the casing prior to collecting the groundwater sample. If the boring does not produce sufficient water, a groundwater sample may be collected without purging the desired volume. The groundwater sample will be collected in sample containers appropriate for the specified analyses, sealed, labeled, and placed into an ice-filled cooler for preservation.*



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*Soil samples will be collected from boring SB-24 at approximately 2.5-foot intervals from 2.5 feet bgs to the total depth explored. In addition to the analyses proposed in the previous August 15, 2015 Addendum, soil and groundwater samples collected from boring SB-24 will be analyzed for halogenated volatile organic compounds (HVOCs) by United States Environmental Protection Agency (US EPA) Method 8260B, and soil samples will be analyzed for wear metals (cadmium, chromium, nickel, lead, and zinc) by US EPA Method 6010.*

- 2. ACEH is concerned about the lateral delineation of petroleum hydrocarbons in soil and would like to see additional confirmation soil borings and a comparison of current and historical concentrations to 15 feet bgs.**

*To address this concern, Stantec proposes additional on-site soil borings SB-27 through SB-34 (shown on **Figure 1**) in the areas of highest historical soil concentrations. Each soil boring will be advanced to a total depth of approximately 15 feet bgs, with soil samples collected at approximately 2.5-foot intervals. The soil samples collected from these borings will be analyzed for benzene, toluene, ethylbenzene, total xylenes, and naphthalene.*

*ACEH stated that they may like to see additional off-site soil borings in the streets surrounding the Site; however, as discussed during the meeting, the need for an off-site investigation will be dependent upon the results from the on-site investigation. If proposed on-site soil borings demonstrate decreased concentrations compared to historical data, then it will be presumed that potential off-site concentrations underwent a similar reduction, and no drilling off-site or in the street will be performed.*

- 3. ACEH is concerned about potential HVOCs in Site groundwater.**

*HVOC analysis will be included in the next routine groundwater monitoring and sampling event.*

- 4. ACEH requested that a utility survey evaluating potential preferential pathways be performed on-site.**

*A utility survey that evaluates potential preferential pathways will be conducted and the results will be included in the subsequent investigation report.*

Once data from the proposed investigation activities are received and draft tables and figures are prepared, Chevron and Stantec will request a meeting with ACEH to further refine the path to closure plan that will be reflected in the final report.

If you have any questions regarding the contents of this document, please feel free to contact Stantec Project Manager, Travis Flora, at (408)356-6124 or [Travis.Flora@stantec.com](mailto:Travis.Flora@stantec.com).



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Former Chevron-Branded Service Station 91723  
9757 San Leandro Street, Oakland, California

### LIMITATIONS

This document entitled *Revised Data Gap Work Plan Addendum* was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Chevron Environmental Management Company (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by Erin O'Malley  
(signature)

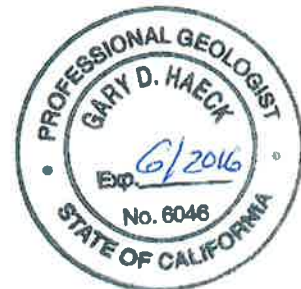
**Erin O'Malley**  
Project Engineer

Reviewed by [Signature]  
(signature)

**Travis L. Flora**  
Associate Project Manager

Reviewed by [Signature]  
(signature)

**Gary Haeck, Ph.D., P.G.**  
Managing Senior Geologist





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Former Chevron-Branded Service Station 91723  
9757 San Leandro Street, Oakland, California

**Attachments:**

Figure 1 – Site Plan showing Proposed Soil Boring Locations

Attachment A – ACEH Correspondence

**cc:**

Ms. Carryl MacLeod, Chevron Environmental Management Company, 6101 Bollinger Canyon Road, San Ramon, CA 94583 – Electronic Copy












Linda Hothem Trust c/o Mr. Jan Greben, Greben & Associates, 1332 Anacapa Street, Suite 110, Santa Barbara, CA 93101

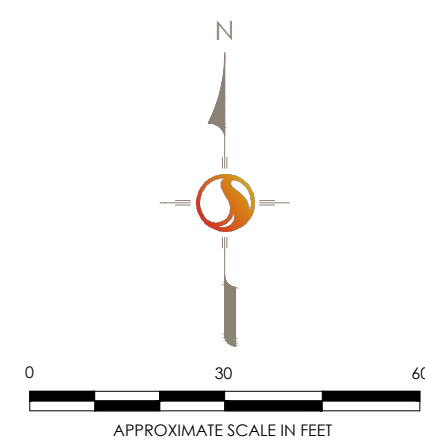
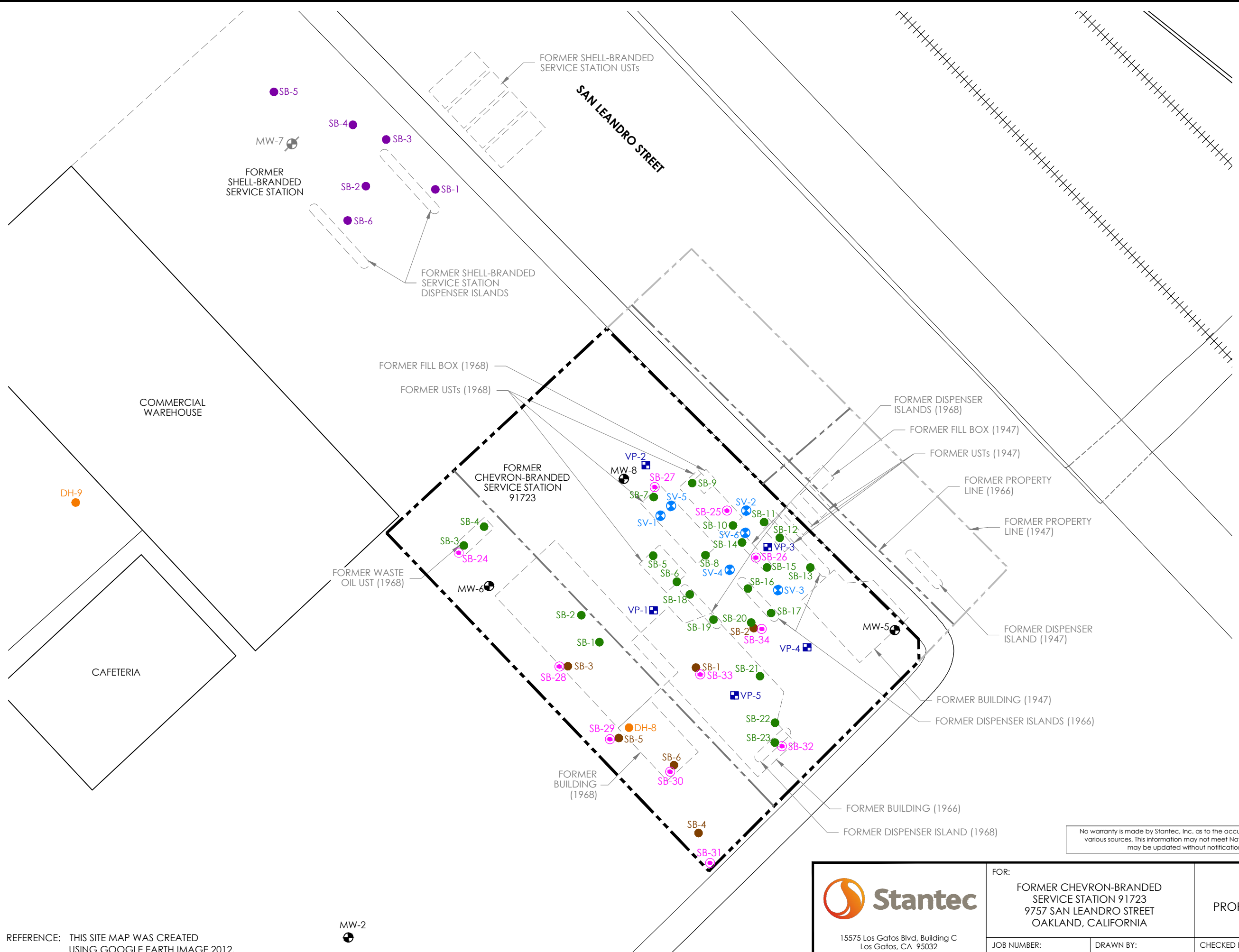
Ms. Jean Kida, Gerber Products, 12 Vreeland Road, Florham Park, NJ 07932

Francis Meynard, Pacific American Group, 104 Caledonia Street, Sausalito, CA 94965 – Electronic Copy

## **FIGURES**

**LEGEND**

-  APPROXIMATE SITE BOUNDARY
-  RAILROAD LOCATION
- UST UNDERGROUND STORAGE TANK
-  GROUNDWATER MONITORING WELL
-  INACTIVE GROUNDWATER MONITORING WELL
-  SOIL BORING (BETA ASSOCIATES, 1987)
-  SOIL BORING (HARDING LAWSON ASSOCIATES, 1990)
-  SOIL BORING (HARDING LAWSON ASSOCIATES, 1991)
-  SOIL BORING (FLUOR DANIEL GTI, 1996)
-  SOIL VAPOR BORING (CAMBRIA, 1997)
-  SOIL VAPOR WELL (CRA, 2010)
-  PROPOSED SOIL BORING



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REFERENCE: THIS SITE MAP WAS CREATED USING GOOGLE EARTH IMAGE 2012.

MW-2  


 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408)356-6124 Fax: (408)356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 91723 9757 SAN LEANDRO STREET OAKLAND, CALIFORNIA		SITE PLAN SHOWING PROPOSED SOIL BORING LOCATIONS		FIGURE: 1
	JOB NUMBER: 211602332	DRAWN BY: JRO	CHECKED BY: EEO	APPROVED BY: TLF	DATE: 02/18/15

**ATTACHMENT A**  
**ACEH Correspondence**



## Detterman, Mark, Env. Health

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**From:** Detterman, Mark, Env. Health  
**Sent:** Wednesday, October 01, 2014 4:43 PM  
**To:** 'MacLeod, Carryl G'  
**Cc:** Roe, Dilan, Env. Health; Fischer, Alexis N; 'Flora, Travis'  
**Subject:** Chevron 91723 (RO412): Request for a Meeting

Carryl,

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Response to Technical Comments and Data Gap Work Plan Addendum*, dated August 15, 2014. The report was prepared and submitted on your behalf to Geotracker by Stantec Consulting Services, Inc (Stantec). A copy has not otherwise been provided to ACEH as previously requested in the May 29, 2014 directive letter.

ACEH has sufficient concerns with the approach at the site that it appears appropriate to request a meeting in order to communicate more directly and effectively, rather than enter into iterative letter writing between interested parties.

I will be out starting tomorrow and next week; however, Dilan Roe will be in the office and can coordinate a meeting date. The following dates are currently available:

October 16; 10 – 12  
October 17; 10 – 12 or 2:30 – 5 (figuring a 2 hour window)  
October 21; 10 – 12 or 1:30 – 5 (ditto)

Thanks,

*Mark Detterman*  
*Senior Hazardous Materials Specialist, PG, CEG*  
*Alameda County Environmental Health*  
*1131 Harbor Bay Parkway*  
*Alameda, CA 94502*  
*Direct: 510.567.6876*  
*Fax: 510.337.9335*  
*Email: [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org)*

*PDF copies of case files can be downloaded at:*

*<http://www.acgov.org/aceh/lop/ust.htm>*

## Flora, Travis

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**From:** Detterman, Mark, Env. Health <Mark.Detterman@acgov.org>  
**Sent:** Tuesday, January 13, 2015 10:49  
**To:** MacLeod, Carryl G; Flora, Travis  
**Cc:** 'Coulter, Alexis N'; Roe, Dilan, Env. Health  
**Subject:** Chevron 97123 (RO412) 9757 San Leandro Blvd, Oakland: Revised Work Plan Addendum

Carryl,

I wanted to keep you posted as to actions at this site. I am following up on our meeting of November 7<sup>th</sup> and the revised work plan addendum discussed in the meeting. I've discovered the submittal date was not tied down well; consequently in order to move the project forward, I just spoke with Travis and we agreed to a February 20, 2015 submittal date. I will modify Geotracker to reflect this.

*Mark Detterman*  
*Senior Hazardous Materials Specialist, PG, CEG*  
*Alameda County Environmental Health*  
*1131 Harbor Bay Parkway*  
*Alameda, CA 94502*  
*Direct: 510.567.6876*  
*Fax: 510.337.9335*  
*Email: [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org)*

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