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By Alameda County Environmental Health 10:09 am, Nov 06, 2015

October 13, 2015

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

RE: 1315 Court Street, Alameda CA

Dear Mr. Detterman:

"I do hereby declare under penalty of perjury under the laws of the State of California, that I am authorized to attest to the veracity of the information contained in the report described herein, and to the best of my knowledge the information, conclusions and recommendations presented in this attached report are true and correct. If you have any questions or comments regarding this report, please do not hesitate to contact Dwight Hoenig of Turner/Maclane Inc. at 510-881-8811.

Sincerely,



Paul D. Meuser

Dwight Hoenig, President

October 9, 2015

Mark Detterman
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda Ca. 94502

Subject: Interim Remedial Action Plan (IRAP); Proposed Mercury Removal Action; 1315 Court St., Alameda, California

Dear Mr. Detterman:

As discussed during our recent phone conversation, this letter provides the requested IRAP to facilitate a mercury-impacted soil and debris removal action at 1315 Court Street in Alameda, California.

Background:

On January 21, 2014, Mr. Meuser contacted the California Emergency Management Agency and the National Response Center to report a finding of elemental mercury, in soil, at the rear of his home at the Subject address. The Alameda County Department of Environmental Health (ACDEH) was contacted and, in turn, contacted the Department of Toxic Substances Control (DTSC). Ultimately, on January 29, 2014, the DTSC emergency response contractor, Parc Specialty arrived on-site to conduct an initial evaluation and limited cleanup of an elemental Mercury release. (The residence and spill release area are shown on Figure 1.)

According to information provided by the ACDEH, Parc Specialty evaluated the spill site using a hand-held Mercury Vapor Analyzer and completed a removal action consisting of the manual excavation and off-site disposal of approximately two, 55 gallon drums of soil and debris. However, based on residual mercury vapor detections and visual observations, some amount of elemental mercury remains on site.

As a result, the ACDEH requested that Mr. Meuser undertake a further investigation and initiate potential soil remediation, as described in California Health and Safety Code §101480. The results of that investigation were provided in a Letter Report from Turner/Maclane Inc. dated September 3rd 2015.

The investigation generally determined the lateral and vertical extent of mercury contamination in soil vapor and the extent of discernable liquid mercury deposits in soil. Based on the investigation findings, the location and mechanism transport of the mercury release has been determined.

Based on direct soil vapor readings and observations of liquid mercury in soil and wall structures, it is apparent that liquid mercury was intentionally disposed to the opening at the top of the cinder block wall at the northern corner of the property (Figure 1).

The observations of mercury, substantiated by vapor and laboratory analytical data, indicate that the area of contamination is localized and has impacted shallow soil at the north corner of the 1315 Court St. and far western corner of 1317 Court St.

Mercury impacts are believed to extend to:

- A narrow band including several courses of bricks forming the cinder block wall with an anticipated length of approximately 6 to 8 linear feet of the 6-foot-high wall.
- A portion of the concrete footing, which is also estimated at not greater than 6 to 8 linear feet.
- Soil contamination, beneath and adjacent to the cinder block wall, may be present in a rectangular configuration, extending no farther than an area of 6 feet by 12 feet. The estimated depth of soil impacts above the San Francisco Bay RWQCB Environmental Screening Level (ESL) for elemental mercury (6.7 mg/kg) is expected to be not greater than 36 inches below ground surface.

As proposed in the Mercury Investigation Report (Turner/Maclane, September 3, 2015) the remedial action proposed for this project includes the following elements:

- Removal and disposal of the affected portions of the concrete wall and associated footings that exceed the ESL.
- Soil removal with disposal at a permitted hazardous waste disposal facility
- Backfill and compaction of clean fill and topsoil.

Mr. Meuser has retained American Integrated Services, (AIS) an environmental remediation contractor to implement this Removal Workplan.

Scope of Work:

Implementation of this Removal Action will consist of the following eleven Tasks:

- 1. Development of a Site Specific Health and Safety Plan (HASP):** The client has retained the services of AIS, a licensed hazardous waste contractor with extensive experience implementing large and small Hazardous Waste Removal Actions. Development and implementation of the HASP will be the responsibility of AIS. (Note: Level "C" PPE, including full face respirators is anticipated for this project.)

- 2. Obtain Site Access Agreement for the impacted portion of 1317 Court Street.**
- 3. Site Mobilization: Anticipated Project Equipment Includes:**
 - a. Industrial Mercury Vacuum
 - b. Limited-Access Excavator
 - c. Closed-top, roll-off box
 - d. Shovels, wheel barrows and assorted hand tools
 - e. Mercury Vapor Meter
- 4. Vacuum visible free mercury from surface soil on either side of the block wall.**
- 5. Placement of Visqueen Barrier:** Protecting soil at the base of the concrete block wall.
- 6. Drilling or ‘Tapping’ the base of the block wall:** Necessary to allow entrained liquid mercury to exit the blocks and to be removed with the Mercury Vacuum.
- 7. Demolition and removal of approximately 12 linear feet of concrete block wall between 1315 and 1317 Court Street.** Visual observation and vapor readings $<16 \text{ ug/m}^3$ will confirm the completion of the Block Removal action. Concrete blocks will be loaded in the DOT-approved, roll-off box for disposal as hazardous waste.
- 8. Demolition and removal of approximately 12 feet of concrete footings**
- 9. Excavation and removal of native soil above ESLs:** Soil will be removed using a limited-access excavator. Initial removal actions will be guided by Mercury Vapor Meter readings above 16 ug/m^3 . The bucket of the excavated will be decontaminated using a dry brush before demobilization.
- 10. Confirmation sampling of the invert surface:** Will consist of a minimum of eight individual soil samples (six sidewall and two bottom-hole samples). Each sample will be retained in one 4-ounce glass jar and placed in a chilled cooler pending transport to a State-certified analytical laboratory. The samples will be delivered under chain of custody to Curtis and Thompkins for analysis by EPA Method 7471A. Twenty-four-hour turnaround time will be specified.
- 11. Backfill and compaction with clean imported soil:** Backfilling will commence upon receipt of laboratory results indicating confirmation samples are below specified clean up objectives.

Dwight Hoenig, President

Following completion of all of the above tasks, Turner/Maclane will prepare a report documenting all removal, disposal and confirmation sampling and analysis associated with this removal action, and will be requesting the issuance of a Site Closure Letter at that time.

As you know, the Meuser family is most anxious to get this removal action implemented and signed off on before the start of the rainy season. I want to thank you in advance for giving this workplan your prompt attention. My client and I greatly appreciate the support and responsiveness you have provided to move this project forward. Please do not hesitate to call or e-mail me with any questions you may have regarding this workplan.

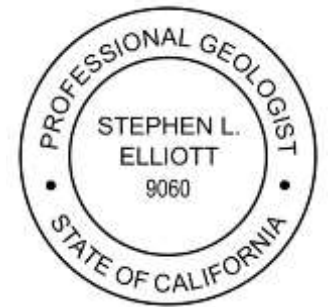
Sincerely,



Dwight Hoenig
President, Turner/Maclane Inc.



Steve Elliott P.G.
American Integrated Services, Inc.



Site Photos



Project No. TM/R: 92105	Description	Concrete Block Wall: Mercury Release Identified Near Corner	Photo #1
	Name	1315 Court Street, Alameda California	Photo Date Sept. 21, 2015



Project No. TM/R:92015	Description	Concrete Block Wall and Exposed Footing Near Release Site	Photo #2
	Name	1315 Court Street, Alameda California	Photo Date Sept 21, 2015

Figure #1
Proposed Soil Removal Area

2908 JACKSON STREET

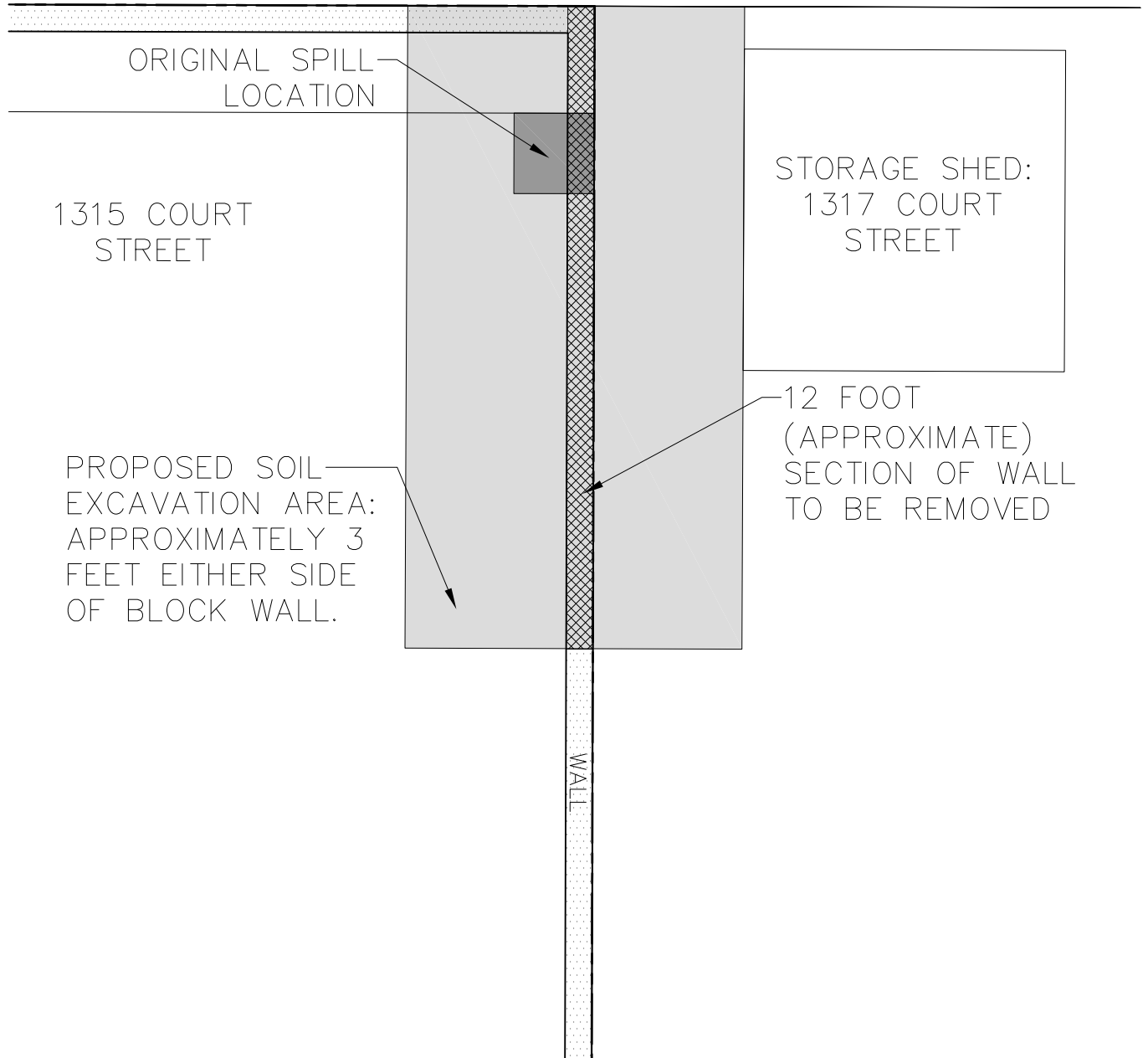


FIGURE #1

1315 COURT STREET, ALAMEDA CA
PROPOSED CONCRETE WALL REMOVAL AND
SOIL EXCAVATION

