SOMA
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November 6, 2012

Ms. Karel Detterman
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Site Location: 6501 Shattuck Avenue, Oakland, CA
Fuel Leak Case No. RO0003066

Dear Ms. Detterman:

SOMA's "Monitoring Well Installation Report" for the subject site has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have questions or comments.

Sincerely,

Mansour Sepehr, Ph.D.,PE
Principal Hydrogeologist

cc: Mr. Athan Magganas w/report enclosure

Monitoring Well Installation Report

6501 Shattuck Avenue,
Oakland, California

November 6, 2012

Project 5032

Prepared for:

Bruder LLC
2550 Appian Way, Suite 201
Pinole, California

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PERJURY STATEMENT

Site Location: 6501 Shattuck Avenue, Oakland, California
Report Title: Monitoring Well Installation Report

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

Bruder LLC
Athan Magganas, Property Manager
2550 Appian Way, Suite 201
Pinole, California 94564

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this document for Bruder LLC, at the request of Bruder LLC manager Mr. Athan Magganas, for the property located at 6501 Shattuck Avenue, Oakland, California. This report was prepared in response to Alameda County Health Care Services correspondence dated February 10, 2011.

_____

Mansour Sepehr, PhD, PE
Principal Hydrogeologist

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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) conducted a monitoring well installation and prepared this report at the request of Bruder LLC manager Mr. Athan Magganas, for the property located 6501 Shattuck Avenue, Oakland, California (the site). This report was prepared in response to Alameda County Health Care Services (ACHCS) approval correspondence dated February 10, 2011. This correspondence pertained to SOMA's workplan dated December 13, 2010, an addendum entitled "Addendum to Interim Remedial Excavation and Proposed Soil and Groundwater Investigation" dated December 13, 2010. The site map is shown in Figure 1.

Based on the initial soil and groundwater investigation conducted in July 2010, and the soil excavation activities that took place in October of 2011, three groundwater monitoring wells were installed to assess the groundwater quality beneath the site and to determine if the site is eligible for closure. Two wells were installed in the sidewalk areas adjacent to the site and one well was installed inside the subject site. This report documents all well installation related activities and evaluates the results of the most recent soil and groundwater sampling.

1.1 Site History and Use

According to the Phase I Environmental Site Assessment Report dated January 26, 2007, prepared for the site by RGA Environmental, the site was redeveloped from a single-family residential property to a service station in 1933. The total period of operation of the service station could not be precisely determined from available historical sources, but based on the City Directory Abstract, the service station appears to have been converted to a repair shop and used car sales facility during the mid-1980s. The facility has operated as East Bay Smog Center and Auto Repair since 2000.

The site is located at the northwest quadrant of the intersection of Shattuck Avenue and 65th Street near the common municipal limits of Oakland and Berkeley, approximately 3.25 miles north-northeast of the downtown Oakland commercial district. According to the Alameda County Assessor Office, the parcel is rectangular and covers an area of 0.19 acres (8,333 square feet). Prior to recent underground storage tank (UST) removal and soil excavation activities, the property was improved with an automotive tune-up and repair facility that included the former service station office and canopy structure and a detached two-bay service building. The two site structures were single-story buildings constructed on concrete slabs at grade. Portions of the parcel not occupied by the structures were asphalt or concrete paved. The site vicinity is a mix of service commercial properties along Shattuck Avenue, with older residential development farther to the east and west. Based on assessments of other properties in the area, there are no manufacturing or heavy industrial facilities in the vicinity.

In September 2009, Controlled Environmental Services (CES) obtained permits for removal of six steel USTs located at the subject site. According to the report prepared by CES, dated October 23, 2009, two 1,000-gallon gasoline USTs, three 2,000-gallon gasoline USTs, and one 500-gallon waste oil UST were removed.

The initial soil and groundwater investigation was conducted by SOMA in July of 2010, and a follow up investigation was conducted in June of 2011.

The remedial soil excavation was conducted in October of 2011. The approved excavation entailed removal of contaminated soil in the area of former USTs to a maximum depth of 15 feet below ground surface (bgs); a total of 770 tons of PHC- impacted soils were excavated and disposed of off-site at Potrero Hills Landfill.

1.2 Geologic and Hydrogeologic Conditions

The property is situated near the east-center of the San Francisco Bay physiographic sub-region, characterized as a partially submerged structural basin situated between sub-parallel, northwest trending faults. Tectonic subsidence of the basin during the past two million years has resulted in a thick layer of Quaternary alluvium up to 2,000 feet in depth, underlain by interbedded marine sandstone and shale of the Franciscan Assemblage, which was deposited in an off-shore environment during the Late Jurassic/Early Cretaceous Period (125-150 million years before present). Surficial soils are medium- to coarse-grained alluvium deposited by periodic debris flow and sheet erosion processes at the lower slopes of the adjacent Oakland Hills in alluvial fan structures. The soils are characterized as weakly consolidated, slightly weathered, poorly sorted, irregular interbedded clay, silt, sand and gravel, with the coarser component typically situated at the heads of old alluvial fans (Helley, et al, 1979). Deposition of the upper soil zone has occurred during the Late Pleistocene Epoch (11,000 to 50,000 years before present), resulting in a typical soil profile ranging from 20 to 30 feet in depth. The surficial soils have moderate permeability and, based on the nearly flat topography, relatively low transmissivity values. Based on local surface topography, the near surface groundwater aquifer in the area of the site is inferred to be less than 25 feet in depth, and regional groundwater flow is generally westerly, toward San Francisco Bay.

2. SCOPE OF WORK

Based on the initial soil and groundwater investigation conducted in July 2010, and the soil excavation activities that took place in October of 2011, three groundwater monitoring wells were proposed to assess the groundwater quality beneath the site and to determine if the site is eligible for closure.

Based on ACHCS correspondence dated February 10, 2011, in order to determine the extent of groundwater contamination at the site, three groundwater monitoring wells MW-1 through MW-3 were installed.

Details of the tasks listed below are discussed in the following sections of this report.

Task 1: Permit acquisition, Health and Safety Plan preparation, and subsurface utility clearance

Task 2: Installation of wells MW-1 through MW-3

Task 3: Waste Disposal

Task 4: Well Survey

Task 5: Well Development

Task 6: Laboratory analysis of Soil and Groundwater Samples

2.1 Permit Acquisition, Health and Safety Plan Preparation, and Subsurface Utility Clearance

Prior to initiating field activities, SOMA obtained a drilling permit from Alameda County Public Works Agency (ACPWA) (Appendix A) for well installation activities. ACHCS was given the required minimum 72-hour notice in advance of drilling on August 24, 2012 and ACPWA was contacted on August 27, 2012 to schedule the grouting inspection with Vicky Hamlin.

Since two of the wells were proposed in the off-site areas, the City of Oakland permits pertaining to the well installation activities were also obtained. Since the City of Oakland prefers to have monitoring wells installed in the traffic lanes, a utility survey of present utility lines was conducted in advance of well permitting for this site. Several utility lines appeared to be present in the traffic lanes closest to the subject site both on 65th Street and on Shattuck Avenues. As such SOMA prepared a petition, dated July 6, 2012, to allow well installation in the sidewalk areas adjacent to the site. A copy of the request to install the proposed wells in sidewalk areas is included in Appendix A. Photographs illustrating the existing utility lines and well installation activities are included in Appendix B.

Once the approval for the sidewalk well installation was secured, SOMA prepared and submitted a traffic control plan along with obstruction and excavation permit applications to the City of Oakland. Copies of traffic control permit (TDS 12-0172), encroachment (ENMI12103), obstruction (OB120752), and excavation (X1201665) are included in Appendix A. All appropriate notifications were given and inspections relevant to above permits were scheduled prior to well installation.

During field implementation activities, SOMA followed standard Health and Safety Plan (HASP) procedures. The HASP is a requirement of the Occupational Safety and Health Administration (OSHA), “Hazardous Waste Operation and Emergency Response” guidelines (29 CFR 1910.120) and the California Occupational Safety and Health Administration (Cal/OSHA) “Hazardous Waste Operation and Emergency Response” guidelines (CCR Title 8, section 5192). The HASP is designed to address safety provisions during field activities and protect the field crew from physical and chemical hazards resulting from drilling and sampling. It establishes personnel responsibilities, general safe work practices, field procedures, personal protective equipment standards, decontamination procedures, and emergency action plans. Field staff and contractors reviewed and signed the HASP prior to beginning field operations.

On August 24, 2012, prior to boring advancement activities, SOMA's field crew visited the site and marked proposed well locations using chalk-based white paint. Underground Service Alert (USA) clearance verifying that drilling areas were clear of underground utilities was obtained August 24, 2012 (Tickets 313189 and 317074). A private utility locator (Cruz Brothers Locators) surveyed proposed drilling areas on August 27, 2012 to locate any additional subsurface conduits.

Since wells MW-1 and MW-3 were located in concrete areas, on August 29, 2012, SOMA oversaw Osborne’s Concrete Coring core the sidewalk areas at each of the proposed well locations.

2.2 Monitoring Well Installations

On August 29 and 30, 2012, a C-57 licensed driller Woodward Drilling (under SOMA’s oversight) installed three 2-inch diameter groundwater monitoring wells (MW-1 through MW-3). Well locations are shown in Figure 2. To clear all subsurface utilities, each well location was hand cleared to 5 feet below ground surface (bgs).

A hollow stem auger (HSA) was used for drilling to construct these wells. The crew drilled and continuously sampled, where appropriate, for lithologic logging purposes (changing lithology) and visual observations such as odor and discoloration of encountered material. Soil samples were collected for chemical analysis in the areas of formerly elevated PID readings, odor, or visual observations indicative of contaminated area, in the absence of above indicators, a minimum of two samples was collected from each well borings from depths where contamination was historically present. Samples were collected using metal tubes. Since no groundwater was encountered during the initial drilling to 17 feet bgs, well boreholes were advanced to the approximate depth of 24 feet bgs and secured overnight to allow for groundwater accumulation, recovery, and proper well screening.

Soils observed during well installation of MW-1 through MW-3 were predominantly clayey and with very little variation from one boring to the next. Clayey sands were observed in all wells from the ground surface to 4 feet bgs, followed by a sandy lean clay layer 4 to 5 feet in thickness. A 3 to 4-foot clay layer was observed between approximately 8 and 12 feet bgs followed by sandy lean clay to the total explored depth. Moist soils were observed at approximately 15 feet bgs, however they did not produce any groundwater, wet stringers encountered below 20 feet bgs. As mentioned earlier, on August 29th only the minimal amount of groundwater was encountered below 21-feet bgs and well borings were secured and allowed to recover overnight. On August 30, 2012, groundwater was observed in all well boreholes and depth to water was recorded between 9 and 8 feet bgs. Geologic logs and PID readings are included in Appendix B.

Recorded PID readings ranged from 0 ppm to 187 ppmv in well MW-2, and from 0 to 0.9 ppmv in wells MW-1 and MW-3. The highest PID reading was recorded in MW-2 at 8 feet bgs. Field observations and PID readings were noted on geological boring logs (Appendix B). SOMA's field geologist logged continuous soil cores from each boring location, characterizing the content of each soil-filled tube using the Unified Soil Classification System (USCS). Upon soil sampling, both ends of each tube were secured using Teflon tape and tubes were immediately placed in a chilled ice chest. Soil samples were labeled with unique sample identifiers and delivered to a state-certified environmental laboratory under established chain of custody protocol for analysis. No groundwater samples were collected during well installation activities.

These new wells were constructed with 2-inch diameter, schedule 40, polyvinyl chloride 0.02-inch screen, and blank casing, and 2/12 sand packs. As The following are the screening intervals in the newly installed wells, which were based on observed groundwater presence in wells after an overnight accumulation:

Well ID	Top of the casing to screen (feet)	Screen Length (feet)	Sand Pack (feet bgs)	Bentonite Seal (feet bgs)
MW-1	7	17	6-7	5-6
MW-2	7	17	6-7	5-6
MW-3	7	17	6-7	5-6

The sand pack was installed from approximately 1 foot above the perforated well casing interval to the total depth of the wells. Approximately 1 foot of bentonite were installed above the sand pack, and a neat cement seal was installed to near

ground surface. The grout seal was emplaced to near-surface grade where (with exception of well MW-2) a flush-mount traffic-rated well vault was installed with a concrete foundation. Since well MW-2 is located inside the site in the dirt substrate, an elevated box was installed at MW-2 well location. Photographic documentation and boring logs are included in Appendix B.

2.3 Soil Sample Collection and Analysis

During drilling activity, SOMA collected soil samples for analysis at depths where historical contamination was observed, or where PID readings or visual observations indicated presence of soil contamination.

During soil samples collection, SOMA's field geologist selected sediments of 6-inch-long sampling tubes and capped both ends of each sample with a Teflon liner and polyethylene end caps. Each soil sample was labeled with a unique identifier and immediately placed in a chilled ice chest for transport to a California state-certified environmental laboratory for analysis.

Samples collected during well installation activities were submitted to a California state-certified environmental laboratory for analysis as follows:

- Modified 8015B or equivalent for analysis of TPH as diesel (TPH-d) and as motor oil (TPH-mo); with silica gel clean-up
- 8260B or equivalent for analysis of TPH as gasoline (TPH-g) and volatile organic compounds (VOCs) in groundwater, including BTEX (benzene, toluene, ethylbenzene and xylenes) and oxygenate compounds

2.4 Well Survey and Well Development

On September 4, 2012, Gregg Drilling and Testing, developed the newly installed wells under SOMA's oversight. Wells were developed a minimum of 72 hours following installation; well development data sheets are included in Appendix E. The wells were developed by bailing out sediment-rich groundwater followed by pumping and surging the wells. This process continued until purged groundwater clarified substantially and groundwater quality parameters were stabilized.

The water-bearing intervals were developed by surging and bailing using a suitably sized surge block. Groundwater stabilization parameters were maintained during the development process and records of this data are included in Appendix E.

Also on September 4, 2012, a licensed surveyor surveyed (horizontally and vertically) newly installed wells; the survey report is included in Appendix D.

2.5 Well Collar Repair

After wells were development, some settlement was noted in the concrete well collars of wells located in the sidewalk areas (MW-1 and MW-3). Therefore, on September 27, 2012 Woodward Drilling had visited the site and repaired these settled well surface areas. No charges were incurred for this additional repair work.

2.6 Waste Disposal

Upon completion of well installation activities, soil cuttings and rinsate waters were stored in several 55-gallon drums. The waste was profiled then removed from the site on October 24, 2012 for disposal at an appropriate off-site facility. Waste manifests are included in Appendix C.

2.7 Soil and Groundwater Analytical Results

Soil samples were collected from well MW-1 and MW-2 from 8 and 13 feet bgs, and from well MW-3 from 11 and 15 feet bgs. With exception of one sample collected from MW-2 at 8 feet bgs (PID reading of 187 ppmv) all the chemicals of concern (COC) were detected below the laboratory detection limits. In MW-2 at 8 feet bgs, only TPH-g and TPH-d were detected above the laboratory detection limits at 25 and 4.8 mg/kg, respectively. It should be noted that these detections were at levels below the Environmental Screening Levels (ESL) established by the California Regional Water Quality Control Board (2008). Figures 3 through 5, show TPH-g, TPH-d, and TPH-mo distribution in the shallow soils (7 to 15 feet bgs) combining the laboratory analytical data from the advanced wells and from remedial excavation (confirmation soil samples). As could be seen from these maps only minor, below the respective ESLs (indicating that they do not pose any threat to the human health or the environment) contaminant detections remain in shallow soils at the site. Laboratory analytical results and chain-of-custody records are included in Appendix F.

On September 11, 2012, the three newly installed monitoring wells (MW-1, MW-2, and MW-3) were monitored for the first time. In general, the groundwater flow direction was recorded as westerly to slightly northwesterly at a gradient of 0.011 feet/feet (Figure 6). As could be seen from this figure, the groundwater gradient is slightly different than the anticipated (pre-well installation) a more southwesterly gradient, which was based on the surrounding groundwater monitoring data (Figure 2).

TPH-g, TPH-d, TPH-mo, and all VOCs were below laboratory reporting-limit in MW-1, MW-2, and MW-3, except for 1,2-DCA which was detected in MW-1 at a low level of 1.3 µg/L. Figure 7 shows a map of 1,2-DCA concentrations in groundwater (ESL for shallow groundwater that is current or potential source of drinking water is 0.5 µg/L). As could be seen from this figure, this concentration

of 1,2-DCA was detected in well MW-1, located southwest (downgradient) of the former UST pit area.

At this time it is recommended to conduct several additional groundwater monitoring events to determine if any directional groundwater flow changes or vertical fluctuations occur during the calendar year and to determine if any groundwater plume exists beneath the site and if the existing well network is sufficient for the monitoring of such plume.

3. CONCLUSIONS AND RECOMMENDATIONS

During this most recent investigation, three groundwater monitoring wells were installed (MW-1 through MW-3). Well MW-2 was installed on-site and wells MW-1 and MW-3 were installed in the sidewalk areas adjacent to the site, on 65th Street and Shattuck Avenue.

No significant soil contamination was observed during the well installation and no elevated COC detections were reported for the collected soil samples.

With exception of 1,2-DCA all COC in groundwater were below the laboratory reporting limits or ESLs. In well MW-1, 1,2-DCA was detected at low concentration of 1.3 ug/L slightly exceeding ESL.

At this time it is recommended to conduct at least three additional groundwater monitoring events (as previously recommended in the Remedial excavation report dated January 9, 2012) to determine if any directional groundwater flow changes occur during the year and to determine if any groundwater plume exists beneath the site and if the existing well network is sufficient for monitoring of such groundwater plume.

FIGURES

N

approximate scale in feet

0 50 100

Figure 1: Site vicinity map.

SOMA ENVIRONMENTAL ENGINEERING, INC.

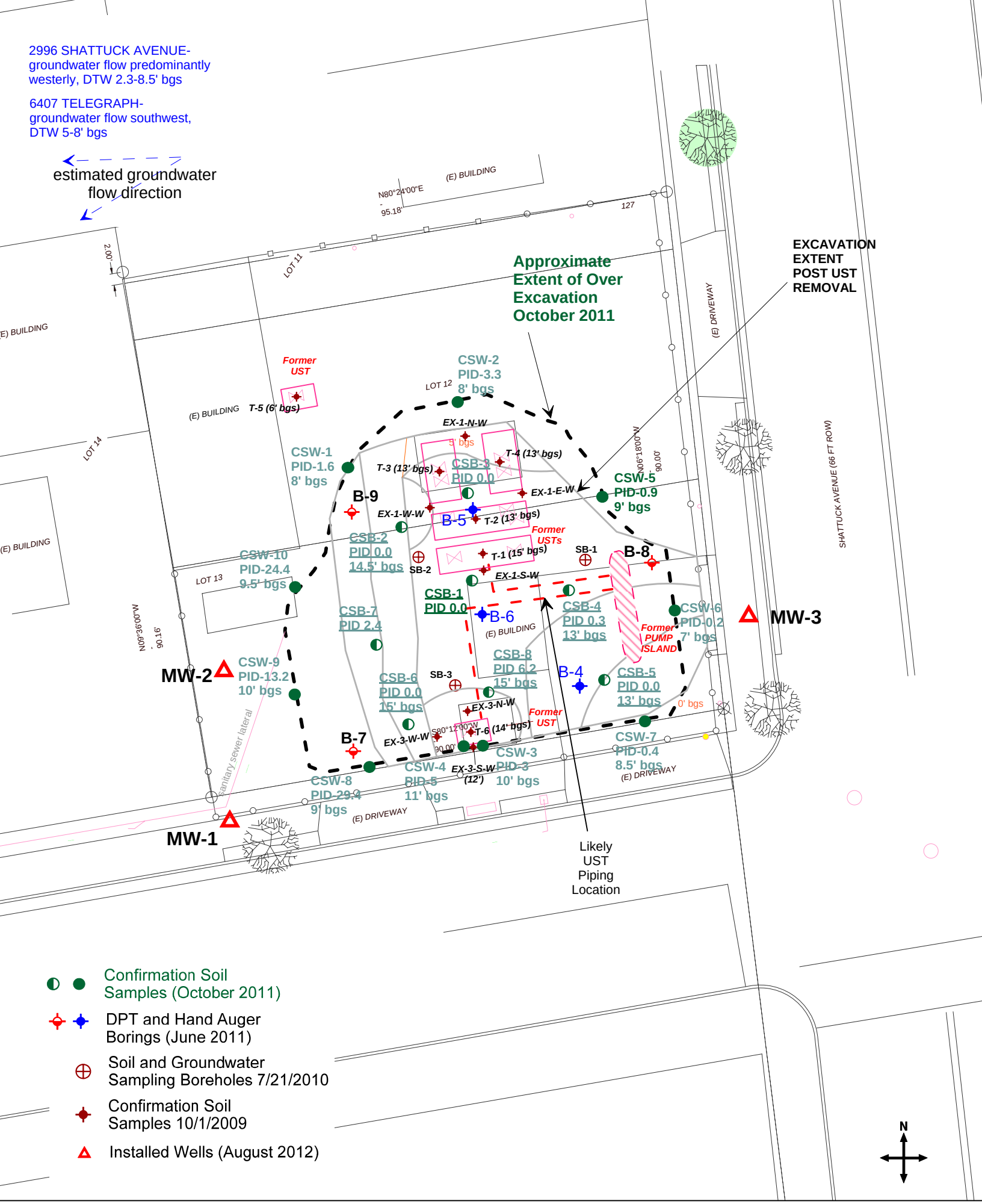

Figure 2: Site Map Showing Excavated Area and Confirmation Soil Sampling

ENVIRONMENTAL ENGINEERING, INC.

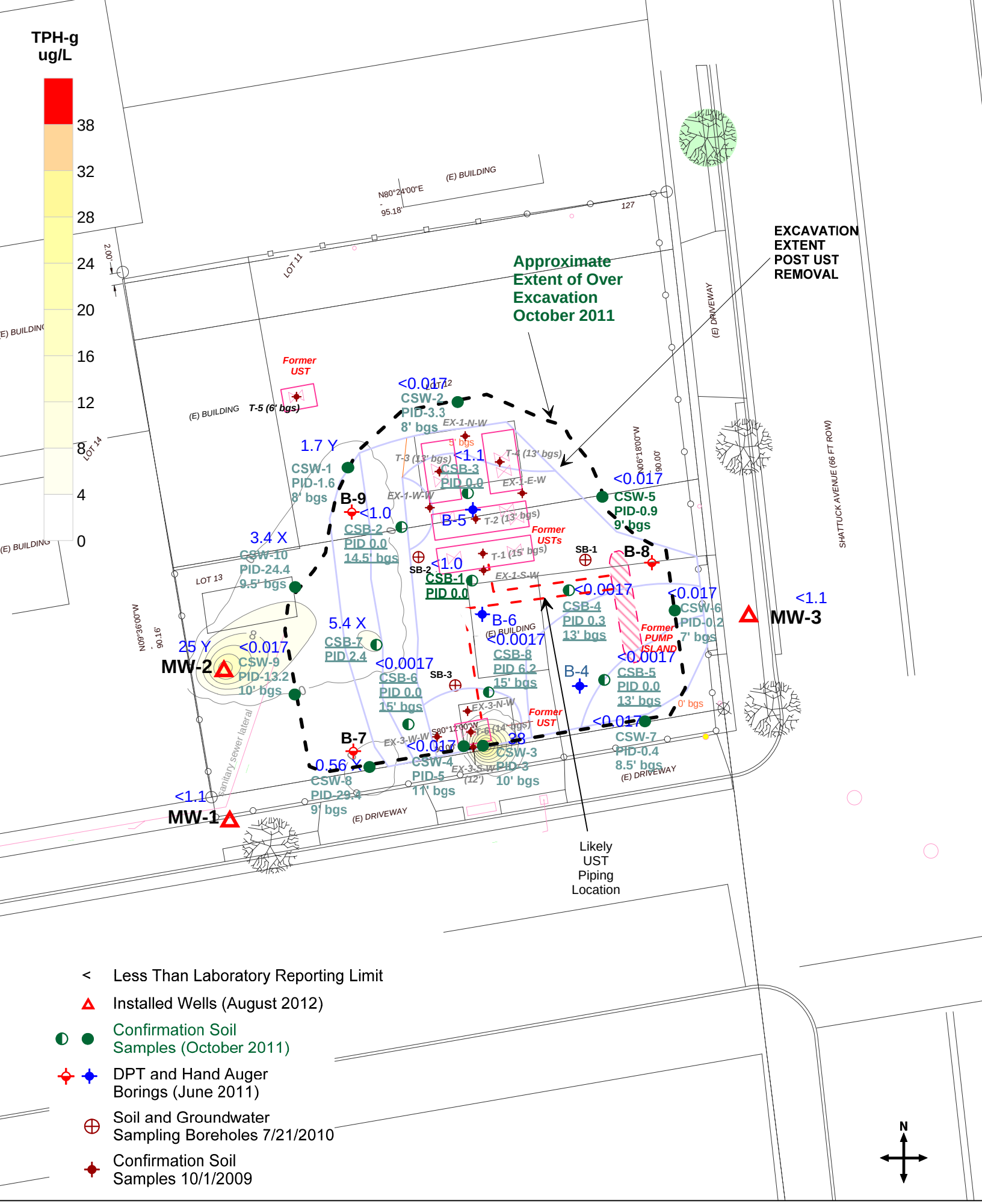

Figure 3: Contour Map of TPH-g concentrations in soil (7 to 15 ft. bgs)

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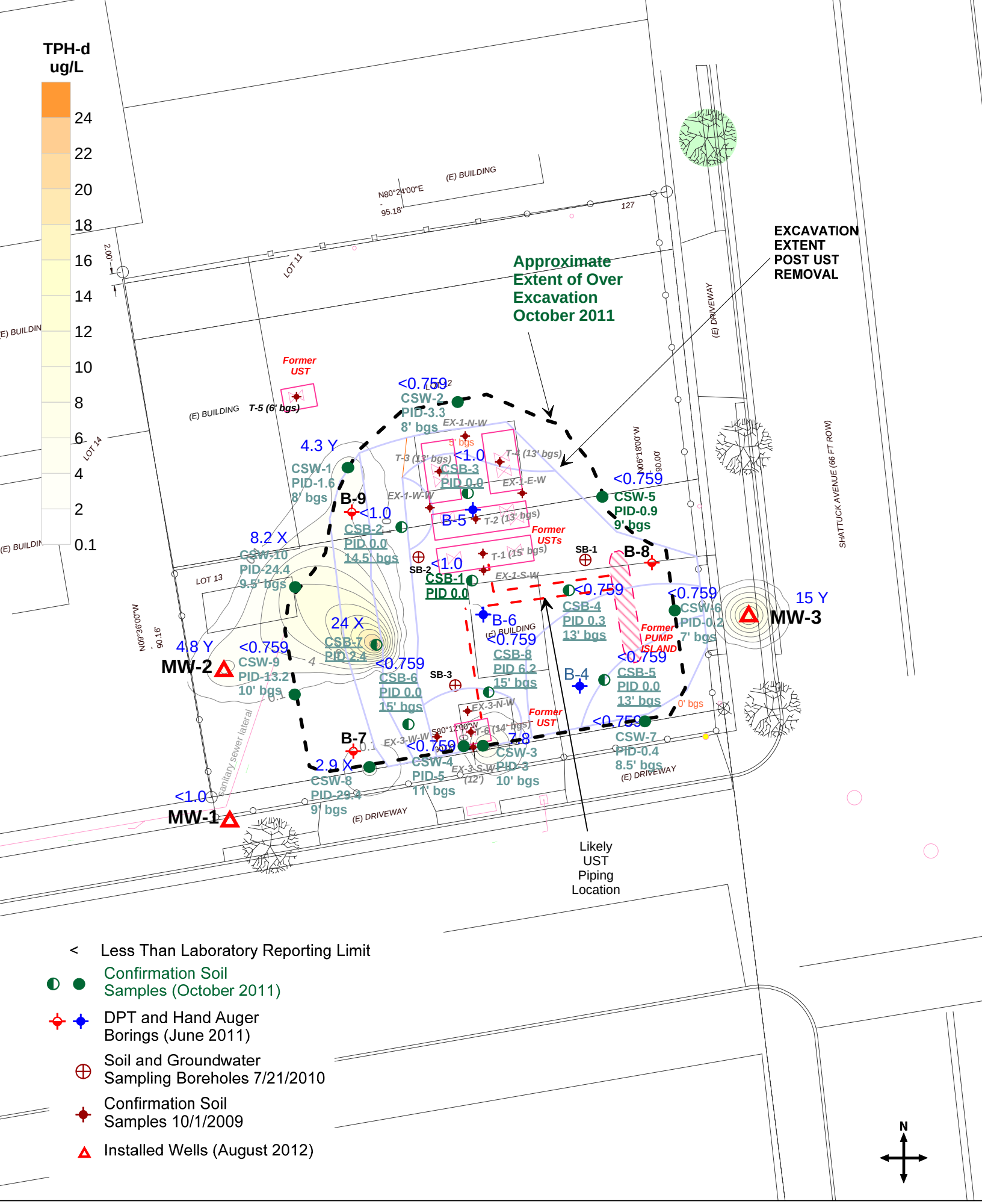

Figure 4: Contour Map of TPH-d concentrations in soil (7 to 15 ft. bgs)

SOMA ENVIRONMENTAL ENGINEERING, INC.

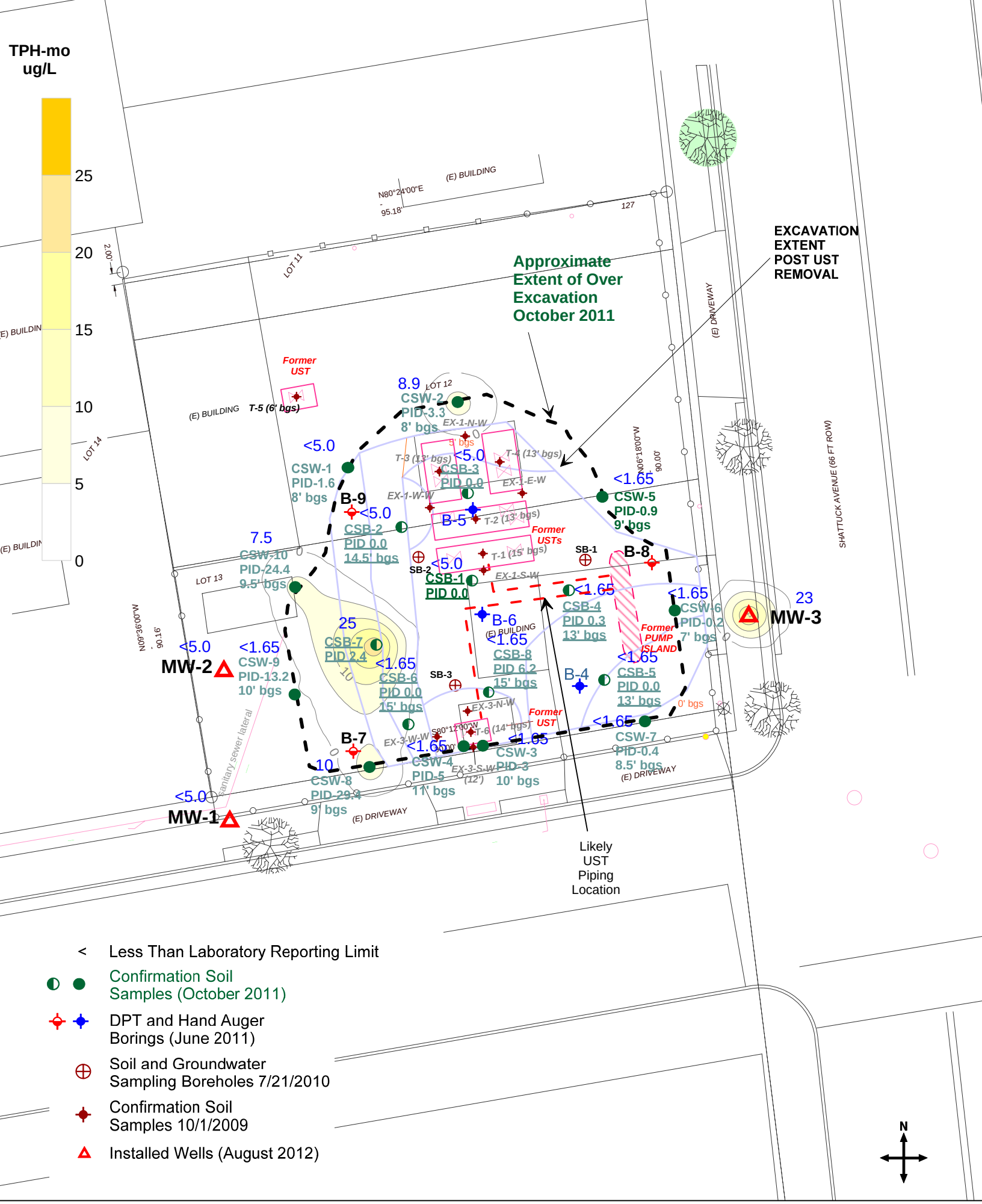

Figure 5: Contour Map of TPH-mo concentrations in soil (7 to 15 ft. bgs)

SOMA ENVIRONMENTAL ENGINEERING, INC.

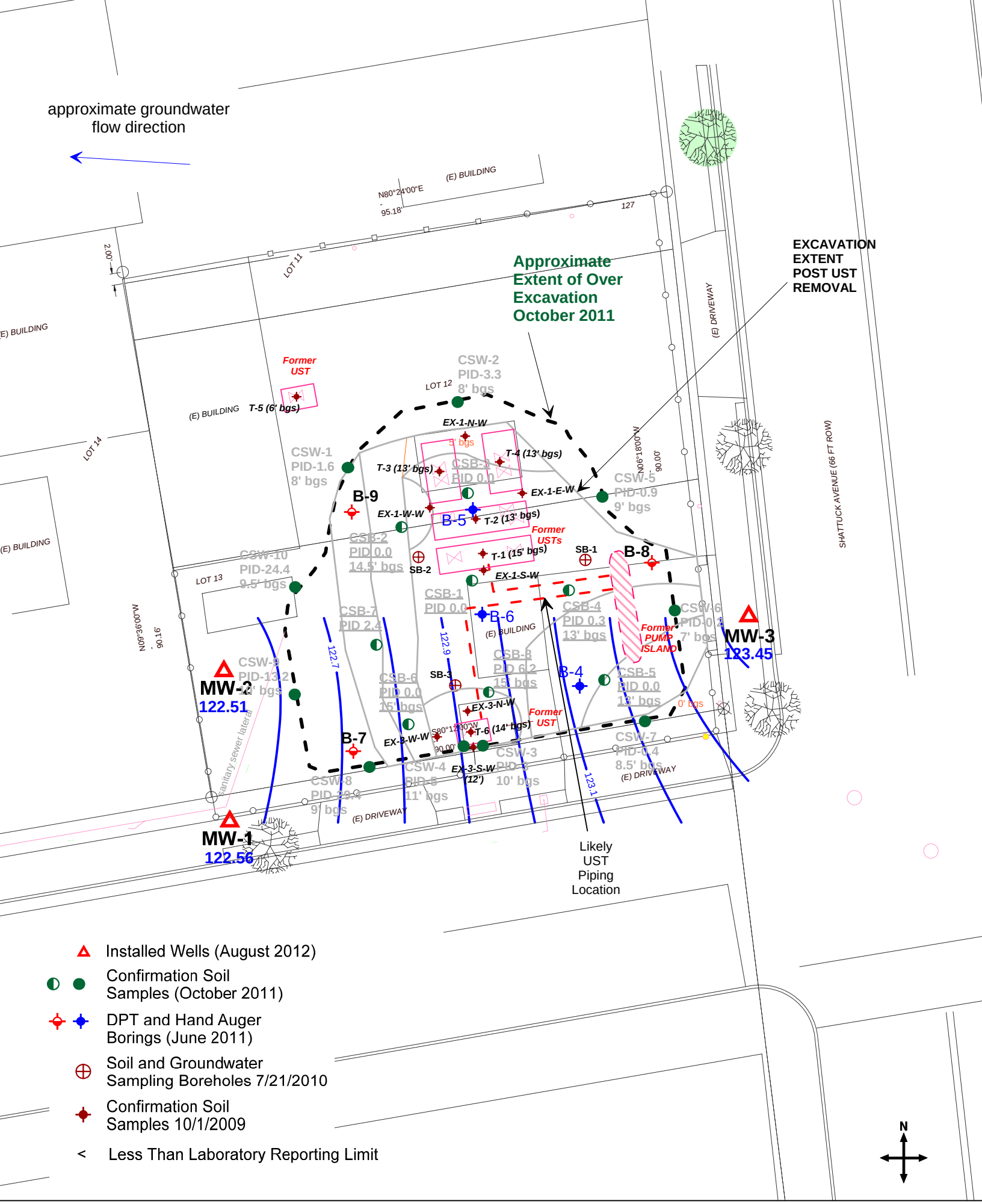

Figure 6: Groundwater elevation contour map in feet, September 11, 2012

SOMA ENVIRONMENTAL ENGINEERING, INC.

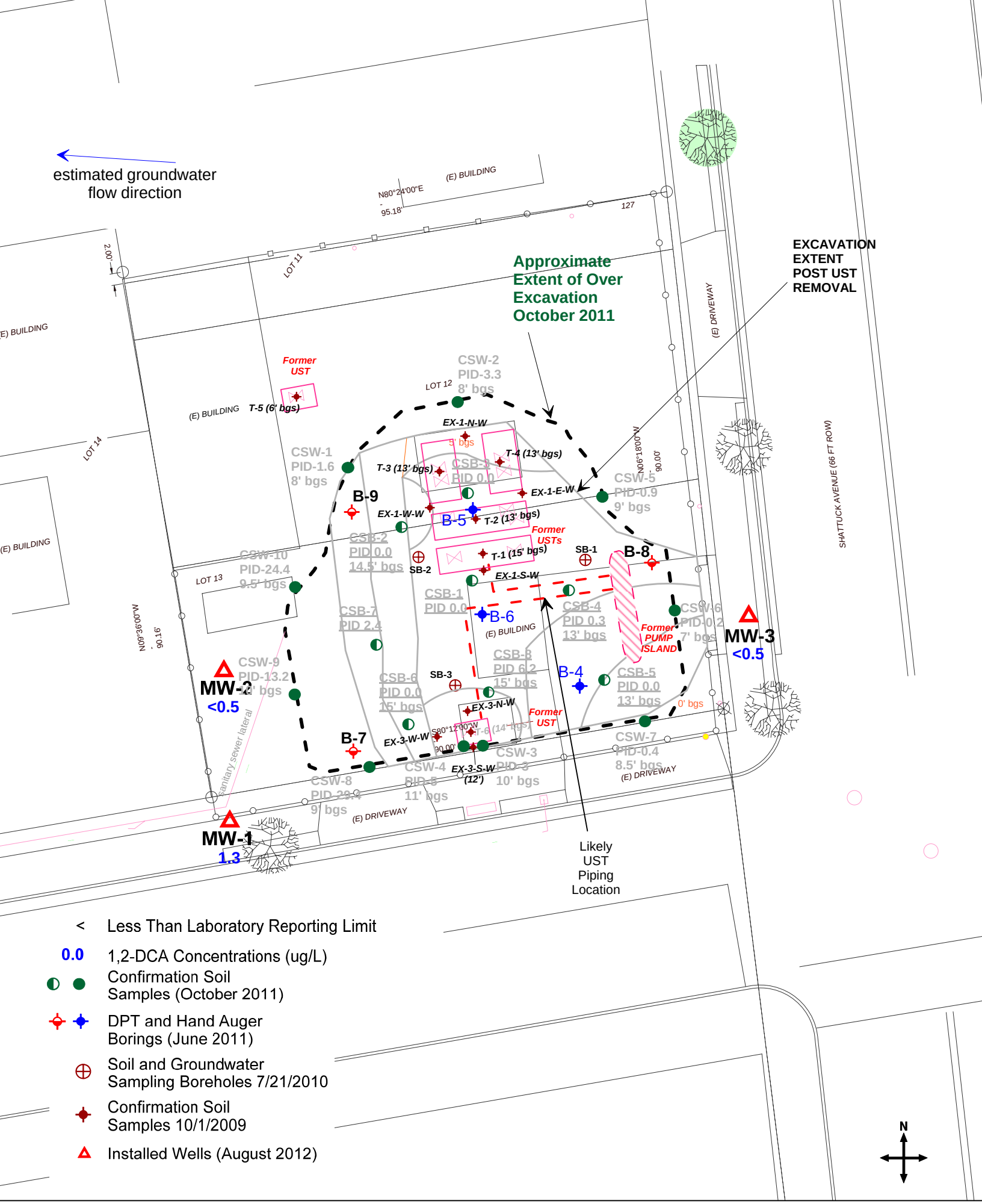

Figure 7: Map showing 1,2-DCA concentrations in groundwater, September 11, 2012

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TABLES

Table 1
Soil Analytical Results
6501 Shattuck Ave, Oakland, CA

Sample ID	Soil Sample Depth (feet bgs)	Depth to Water (feet bgs)	Date	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE 8260B (mg/kg)	Lead 6010 (mg/kg)
Well Installation 2012												
MW-1	8	6.14	8/30/2012	<0.93	<1.0	<5.0	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	NA
MW-1	13	6.14	8/30/2012	<1.1	<1.0	<5.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA
MW-2	8	7.81	8/29/2012	25 Y	4.8 Y	<5.0	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA
MW-2	13	7.81	8/29/2012	<1.0	<0.99	<5.0	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA
MW-3	11	7.89	8/29/2012	<1.1	15 Y	23	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA
MW-3	15	7.89	8/29/2012	<0.99	<1.0	<5.0	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	NA
SB-1@2.5ft	9	10	7/21/2010	23Y	20	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	7.9
SB-2@3ft	9	10	7/21/2010	**510Y**	50	<5.0	<0.5	<0.5	0.65	<0.5	<0.5	5.7
SB-3@1.5ft	8.5	8.5	7/21/2010	3.2Y	24	48	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	58
B-4	9	13.22	6/10/2011	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA
B-5	8	NA	6/10/2011	18 Y	59 Y	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
B-6	7	NA	6/10/2011	<1.0	<1.0	<5.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
B-7	10	12.45	6/10/2011	**180**	35 Y	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
B-7	12	12.45	6/10/2011	<0.98	NA	NA	NA	NA	NA	NA	NA	NA
B-8	4.5	NA	6/10/2011	<1.1	3.2 Y	23	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
B-9	8	11.5	6/10/2011	**140**	58 Y	6.1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
B-9	10	11.5	6/10/2011	<1.0	NA	NA	NA	NA	NA	NA	NA	NA
CSW-1	10	Excavation	10/13/2011	1.7 [Y]	4.3 [Y]	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA
CSW-2@8ft	8	Excavation	10/17/2011	<0.017	<0.759	8.9	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSW-3@10'	10	Excavation	10/14/2011	38	7.8	<1.65	<0.15	<0.098	0.18	<0.19	<0.26	NA
CSW-4@11'	11	Excavation	10/14/2011	<0.017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSW-5@9ft	9	Excavation	10/17/2011	<0.017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSW-6@7ft	7	Excavation	10/17/2011	<0.017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSW-7@8.5ft	8.5	Excavation	10/17/2011	<0.017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSW-8@9ft	9	Excavation	10/24/2011	0.56 [X]	2.9 [X]	10	<0.0038	<0.0025	<0.0022	<0.0046	<0.0065	NA
CSW-9@10ft	10	Excavation	10/24/2011	<0.017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSW-10@9.5ft	9.5	Excavation	10/24/2011	3.4 [X]	8.2 [X]	7.5	<0.0075	<0.0049	<0.0043	<0.0093	<0.013	NA

Table 1
Soil Analytical Results
6501 Shattuck Ave, Oakland, CA

Sample ID	Soil Sample Depth (feet bgs)	Depth to Water (feet bgs)	Date	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE 8260B (mg/kg)	Lead 6010 (mg/kg)
CSB-1	14	Excavation	10/13/2011	<1.0	<1.0	<5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA
CSB-2	14.5	Excavation	10/13/2011	<1.0	<1.0	<5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA
CSB-3	13	Excavation	10/13/2011	<1.1	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA
CSB-4	13	Excavation	10/17/2011	<0.0017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSB-5	13	Excavation	10/17/2011	<0.0017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSB-6	15	Excavation	10/24/2011	<0.0017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
CSB-7	14.5	Excavation	10/24/2011	5.4 [X]	24 [X]	25	<0.0075	<0.0049	<0.0043	<0.0093	<0.013	NA
CSB-8	15	Excavation	10/24/2011	<0.0017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
Fill Black-1	NA	Backfill	10/14/2011	<0.0017	<0.759	23	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
Fill Black-2	NA	Backfill	10/14/2011	<0.0017	<0.759	7.6	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
Fill Brown-1	NA	Backfill	10/14/2011	<0.017	<0.759	42	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
Fill Brown-2	NA	Backfill	10/14/2011	<0.017	<0.759	28	<0.0015	<0.00098	<0.00086	<0.0019	<0.0026	NA
Compfill-3	NA	Backfill	10/28/2011	<0.017	<0.759	<1.65	<0.0015	<0.00098	<0.00086	<0.0019	NA	NA
ESL Drinking Water (Residential)				83	83	370	0.044	2.9	2.3	2.3	0.023	200
ESL Non-Drinking Water (Commercial)				180	180	2500	0.27	9.3	4.7	11	8.4	750

Notes:

ESL: California Regional Water Quality Control Board, Environmental Screening Levels, Interim Final November 2007, Revised May 2008

< : below Laboratory Detection Limits

Y: Sample exhibits chromatographic pattern which does not resemble standard

Note: Depth to groundwater for 2010 and 2011 samples is tentative, since some locations had slower water recovery rates, and does not represent the actual stabilized groundwater elevation across the site. For 2012 samples depth to groundwater was recorded during groundwater monitoring event conducted on 9/11/2012

Table 2:
Groundwater Analytical Results
6501 Shattuck Ave, Oakland, CA

Monitoring Well	Date	Top of Casing Elevation (Ft.)	Depth to Groundwater (Ft.)	Groundwater Elevation	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MtBE µg/L	1,2-DCA µg/L	EDB µg/L
MW-1	9/11/2012	128.70	6.14	122.56	<50	<52	<310	<0.5	<0.5	<0.5	<0.5	<0.5	1.30	<0.5
MW-2	9/11/2012	130.32	7.81	122.51	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	9/11/2012	131.34	7.89	123.45	<50	<53	<320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Note:

< : Below Laboratory Reporting Limit (Method Detection Limit)

All other VOCs were below laboratory-reporting limits in groundwater samples

APPENDIX A

DRILLING, TRAFFIC, ENCROACHMENT, EXCAVATION AND OBTSTRUCTION PERMITS AND OTHER PERMIT RELATED DOCUMENTATION

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 07/11/2012 By jamesy

Permit Numbers: W2012-0484 to W2012-0486
Permits Valid from 07/17/2012 to 08/08/2012

Application Id: 1341335735203 **City of Project Site:** Oakland
Site Location: 6501 Shattuck Avenue
Project Start Date: 07/17/2012 **Completion Date:** 08/08/2012
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: SOMA Environmental Engineering, Inc - Elena Manzo
6620 Owens Drive, Suite A, Pleasanton, CA 94588 **Phone:** 925-734-6400
Property Owner: Athan Maganas
2550 Appian Way, Suite 201, Pinole, CA 94564 **Phone:** --
Client: ** same as Property Owner **

	Total Due:	$1191.00
Receipt Number: WR2012-0208	**Total Amount Paid:**	$1191.00
Payer Name : Mansour Sepehr	Paid By: VISA	**PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 3 Wells
Driller: Woodward Drilling - Lic #: 710079 - Method: hstem **Work Total: $1191.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2012-0484	07/11/2012	10/15/2012	MW-1	10.00 in.	2.00 in.	6.00 ft	20.00 ft
W2012-0485	07/11/2012	10/15/2012	MW-2	10.00 in.	2.00 in.	6.00 ft	20.00 ft
W2012-0486	07/11/2012	10/15/2012	MW-3	10.00 in.	2.00 in.	6.00 ft	20.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie.

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

Elena Manzo

From: support@usan.org
Sent: Friday, August 24, 2012 1:50 PM
To: emanzo@somaenv.com
Subject: USAN 2012/08/24 #00000 0313189-000 NORM NEW

00000 USAN 08/24/12 13:50:02 0313189 NORMAL NOTICE

Message Number: 0313189 Received by USAN at 13:44 on 08/24/12 by ADM

Work Begins: 08/29/12 at 08:30 Notice: 024 hrs Priority: 2
Night Work: N Weekend Work: N

Expires: 09/21/12 at 23:59 Update By: 09/19/12 at 16:59

Caller: ELENA MANZO
Company: SOMA ENVIRONMENTAL
Address: 6620 OWENS DR STE A
City: PLEASANTON State: CA Zip: 94588
Business Tel: 925-734-6400 Fax: 925-734-6401
Email Address: EMANZO@SOMAENV.COM

Nature of Work: VERTICAL BORING TO MNTR WELL
Done for: P/O MAGGANAS Explosives: N
Foreman: ELIZABETH HIGHTOWER
Field Tel: Cell Tel: 925-330-5255
Area Premarked: Y Premark Method: WHITE PAINT
Permit Type: CITY Number: X1201665
Vac / Pwr Equip Use In The Approx Location Of Member Facilities Requested: N Excavation Enters Into Street Or Sidewalk Area: Y

Location:
Street Address: 6501 SHATTUCK AVE
Cross Street: 65TH ST

3 LOCS: 1 WITHIN PROP, 1 IN THE SIWLK ON THE 65TH ST SI/O ADDR APP 60' W/O SHATTUCK, 1 IN THE SIWLK ON SHATTUCK AV SI/O ADDR APP 20-40' N/O 65TH

Place: OAKLAND County: ALAMEDA State: CA

Long/Lat Long: -122.266703 Lat: 37.85005 Long: -122.265586 Lat: 37.850938

Sent to:
CTYBER = CITY BERKELEY
COMOAK = COMCAST-OAKLAND
EBWCMS = EAST BAY WATER
PGEOAK = PGE DISTR OAKLAND
SPRINT = SPRINT
CTYOAK = CITY OAKLAND CONST DEPT
COMRCH = COMCAST-RICHMOND
PBTHAY = PACIFIC BELL HAYWARD
PGERCH = PGE DISTR RICHMOND

Member Contact Information

Member Utility	Main Contact #	Vacuum Contact #	Emergency #	After hours #
CITY BERKELEY	(510)981-6408		(510)981-6620	(510)981-6620
CITY OAKLAND C	(510)238-7262			

	(510)238-7288			
COMCAST-OAKLAN	(925)424-0181			
COMCAST-RICHMO	(510)243-3019		(510)502-0667	
	(510)442-6893			
	(510)385-8721			
EAST BAY WATER	(510)287-0600			
PACIFIC BELL H	(510)645-2929	(510)645-2929	(510)645-2929	(800)332-1321x8
PGE DISTR OAKL	(800)743-5000x00	(800)743-5000	(800)743-5000	(800)743-5000
PGE DISTR RICH	(800)743-5000x00	(800)743-5000	(800)743-5000	(800)743-5000
SPRINT	(800)521-0579	(800)521-0579	(800)521-0579	(800)521-0579

Elena Manzo

From: Lee, Calvin [CLee4@oaklandnet.com]
Sent: Wednesday, October 24, 2012 2:36 PM
To: Elena Manzo
Cc: Bacina, Chris
Subject: RE: Old encroachment permit

Hi Elena,

The document was forwarded to the County Recorder on Sep. 19 for recordation.

After they send back to us a copy of the recorded version, I can then make a copy for you.

Until then, I also only have the same information that Mr. Bacina has copied below.

I'll keep an eye open for the document.

Thanks!

Calvin

From: Elena Manzo [mailto:emanzo@somaenv.com]
Sent: Tuesday, October 16, 2012 3:24 PM
To: Lee, Calvin
Subject: RE: Old encroachment permit

Dear Mr. Lee
Chris Bacina recommended I contact you regarding a copy of an old(er) encroachment permit, is it possible for you to email it to me: ?

Please contact Calvin Lee, copied here...
Appl#: ENMI12103 Rev#: Type: Filed: 07/06/12 Parallel:
Addr1: 6501 SHATTUCK AV Suite: Disp:
Desc: Allow monitoring wells MW-1 on 65th St side & MW-3 on
Applicant: BRUDER LLC Tel#: (510)222-1421 WC Exp:
Est Cost: 0 Rev Cost: 0 New Cost: 0
Revision Data: LAST Rev#: Date Received: Requested By:
Rcvd By: Comments:

Station	Indv	Plan Set#	Log To	Log In	Start Work	In Hold	Out Hold	Log Out
ENG-SVCS	CQL	0	07/06/12	07/27/12	07/27/12			07/27/12
	Comment: LOG OUT ON 07/30/12							
APPLICNT	CQL	0	07/27/12	08/02/12	08/02/12			08/02/12
	Comment:							
ENG-SVCS	CQL	0	08/02/12	08/02/12	08/02/12			08/02/12
	Comment: OK TO ISSUE EXCAVATION PERMIT.							
COUNTER	CQL	0	08/02/12	08/23/12	08/23/12			08/23/12
	Comment: AGREEMENT SIGNED BY APPLICANT, ENG-SVCS; TO COUNTY							

Elena Manzo
Principal Scientist
SOMA Environmental Engineering, Inc.

CITY OF OAKLAND • Department of Planning, Building and Neighborhood Preservation
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# ENMI12103 Job Site 6501 SHATTUCK AV Parcel# 016 -1428-011-02

Descr Allow monitoring wells MW-1 on 65th St side & MW-3 on Shattuck St side. Rescission needed to final. Filed 07/06/12

Insurance Required? YES Carrier Expires

		Applcnt	Phone#	Lic#	--License Classes--
Owner	BRUDER LLC	X	(510)222-1421		
Contractor					
Arch/Engr					
Agent	SOMA ENVIRO/ELENA MANZO		(925)734-6400		

Applic Addr 2550 APPIAN WAY, PINOLE CA, 94564

$1,133.73 FEES TO BE PAID AT FILING		$438.35 FEES TO BE PAID AT ISSUANCE	
$71.00 Applic	$.00 Permit	$.00 Applic	$.00 Permit
$917.00 Process	$93.86 Rec Mgmt	$382.00 Process	$36.29 Rec Mgmt
$.00 Gen Plan	$.00 Invstg	$.00 Gen Plan	$.00 Invstg
$.00 Other	$51.87 Tech Enh	$.00 Other	$20.06 Tech Enh

Application Processed By _____ Date: _____

Permit Issued By _____ Date: _____

Finaled By _____ Date: _____

Application Docs Forwarded To _____ Date: _____

APPLICATION ONLY
NOT A PERMIT

ADDRESS:

DIST:

CITY OF OAKLAND • Department of Planning, Building and Neighborhood Preservation
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# OB120752 Job Site 6501 SHATTUCK AV Parcel# 016 -1428-011-02

Block sidewalk & reroute pedestrian traffic per TSD12-0172 Permit Issued 08/23/12
on both Shattuck Ave & 65th Street sides. No impact on
vehicular traffic. One parking space on 65th St.

Nbr of days: 2 **Display on Dashboard** Linear feet: 50
Effective: 08/29/12 Expiration: 08/30/12

SHORT TERM NON-METERED

		Applcnt	Phone#	Lic#	--License Classes--
Owner	BRUDER LLC		(510)222-1421		
Contractor	WOODWARD DRILLING CO.,INC	X	(707)374-4300	710079	C57
Arch/Engr					
Agent	SOMA ENVIRO/ELENA MANZO		(925)734-6400		
Applic Addr	P.O.BOX 336, RIO VISTA, CA, 94571				

$160.65 FEES TO BE PAID AT FILING $.00 FEES TO BE PAID AT ISSUANCE

$71.00	Applic	$69.00	Permit
$.00	Process	$13.30	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$7.35	Tech Enh

Display on Dashboard

JOB SITE

To Have Illegally Parked Vehicle Ticketed Call 510-777-3333.

Applicant arranges towing.

For Towed Car Call 510-238-3021

TCP needs to be approved by Transportation Services every 30 days or whenever deviated from the previously approved plan.

ADDRESS:

Applicant: _____ _____

Issued by: _____ _____

DIST:

CITY OF OAKLAND

Date: 08/23/12 Amt Paid: $1,471.10
By: SYK Register R03 Receipt# 169955

CITY OF OAKLAND • Department of Planning, Building and Neighborhood Preservation
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# X1201666 Job Site 6501 SHATTUCK AV Parcel# 016 -1428-011-02

Descr Install monitoring well MW-3 on Shattuck St side. Separate permit for MW-1 on 65th St side. Permit Issued 08/17/12
Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR.
Work Type EXCAVATION-PRIVATE P Non-Metered

USA # Util Co. Job # Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	BRUDER LLC		(510)222-1421		
Contractor	WOODWARD DRILLING CO.,INC	X	(707)374-4300	710079	C57
Arch/Engr					
Agent	SOMA ENVIRO/ELENA MANZO		(925)734-6400		
Applic Addr	P.O.BOX 336, RIO VISTA, CA, 94571				

JOB SITE

$436.05 FEES TO BE PAID AT ISSUANCE

$71.00	Applic	$309.00	Permit
$.00	Process	$36.10	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$19.95	Tech Enh

Permit Issued By 0 Date: _____

Inspection Routing:

Inits	Date	
_____	_____	FLD-CHK/Pre-Con
_____	_____	Excavation/Anchor Installation
_____	_____	Sidewalk repair mark-out
_____	_____	Concrete repair
_____	_____	Finalled

ADDRESS:

DIST:

Date: 08/23/12 Amt Paid: $1,471.10
By: SYK Register R03 Receipt# 169955

CITY OF OAKLAND • Department of Planning, Building and Neighborhood Preservation
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Permit No. X1201666 Parcel #: 016 -1428-011-02
Project Address: 6501 SHATTUCK AV

Licensed Contractors' Declaration
I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration
I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender_____ Address_____

Workers' Compensation Declaration

I hereby affirm under penalty of perjury one of the following declarations:

[ ] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[ ] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER:_____POLICY NO. _____

[ ] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Hazardous Materials Declaration

I hereby affirm that the intended occupancy [ ] WILL [ ] WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit.

ADDRESS: _____

DIST: _____

_____ _____ _____
PRINT NAME Signature [ ] Contractor, or [ ] Agent Date

CITY OF OAKLAND

Public Works Agency • 250 Frank H. Ogawa Plaza • Suite 4344 • Oakland, California 94612-2033
Transportation Services Division
Office (510) 238-3466
FAX (510) 238-7415
TDD (510) 839-6451

Traffic Engineering Services Analysis Fee Invoice

Date: August 20, 2012

TSD Invoice # : 12-0172

To: Elena Manzo
Company: SOMA Environmental Engineering
Address: 6620 Owens Dr, Ste A, Pleasonton, CA
Phone: 925-734-6400

Created/Received By: Bert Chang

Location	Description of Work	Project Name / Permit #	# of Hours *
Shattuck Ave and 65th St	Sidewalk Closure		1

Total Hours	**1**	
TSD Service Rate	**$**	**123.00**
Total Fee	**$**	**123.00**

* - minimum 1 hour service

FOR CITY USE ONLY	
Cost Center No.	W045
Organization No.	30264
Account No.	45119
Fund No.	1750

Cc: Rosalie

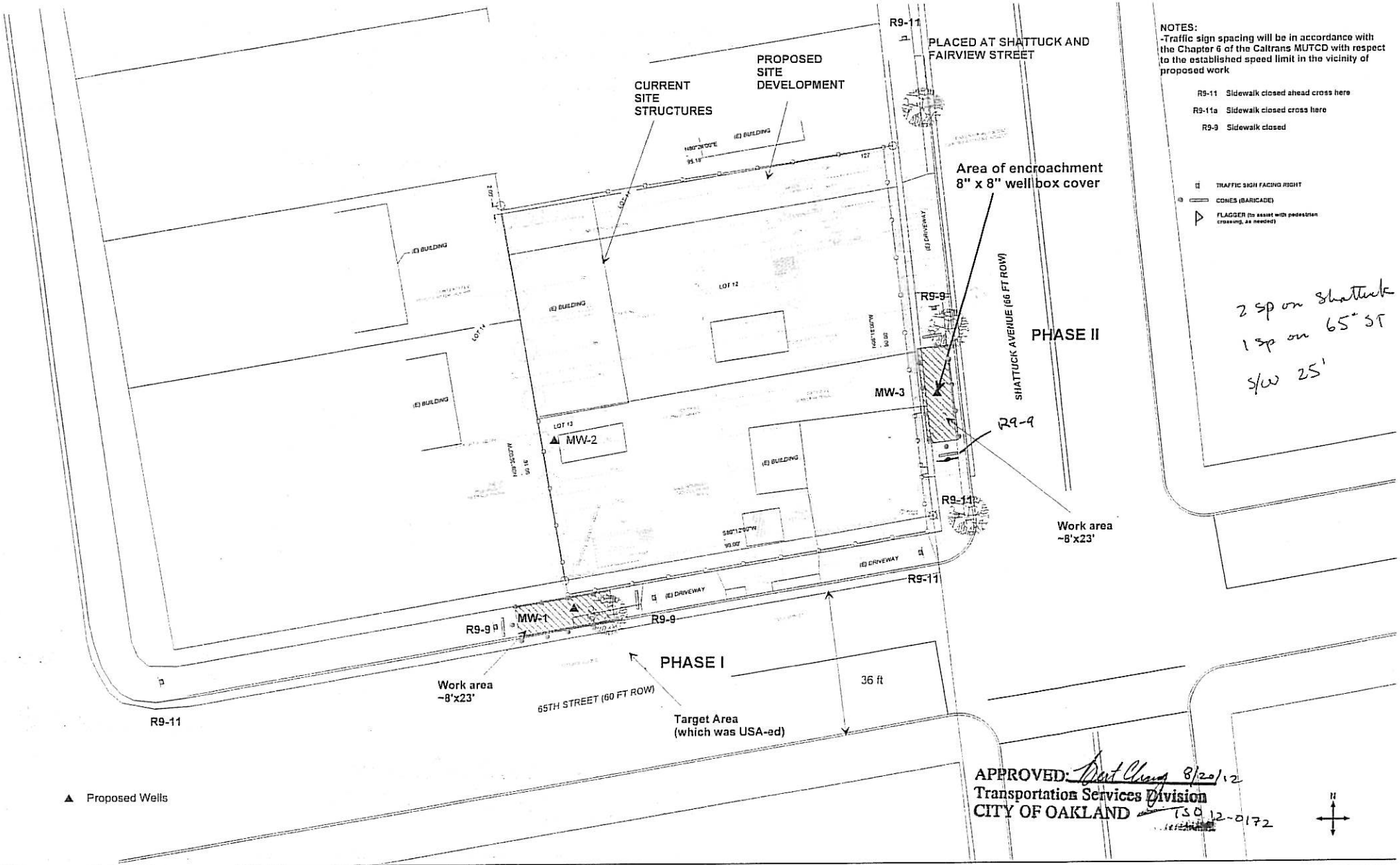


Figure 1: Map showing locations of proposed traffic control (ENMI 12103)

APPLICATION FOR TRAFFIC CONTROL PLAN

Transportation Services Fee: $123/hour
(Check or Money Order Only)

City of Oakland

Public Works Agency
Transportation Services Division

Check the box that apply:
- ☑ **New Application** (Utility, Excavation)
- ☐ **Renewal Application**
- ☐ **New Development w/ Mgmt Plan**
- ☐ **City of Oakland Project**

Please Read the Following Statements Below:

1. Processing time for a Traffic Control Application is a **minimum of 10 business days**.
2. Traffic Control review is scheduled **only** on **Tuesdays** and **Thursdays from 8:30am thru 11:30am by appointment only**.
3. A scheduled **appointment** by phone or email with a TSD staff member is necessary to discuss any and all traffic control application and plans.
4. Please **call ahead** to confirm that the traffic control application is ready for pickup @ 510-238-3467.
5. Businesses and residences adjacent to the work area must be provided **72 hour advance notice**.
6. **A completed** traffic control application may be faxed to (510) 238-7415.
7. **Incomplete** traffic control applications will not be processed and returned to applicant immediately.
8. The initial approval for a traffic control plan is 1 month, the renewal submittal may be approved up to 3 months.
9. The traffic control provision dates cannot be changed or extended if work has already commenced.
10. After receiving TSD approval of the traffic control application, contractor shall proceed to the Permit Center to **obtain an obstruction permit.**

Contact Person: Elena Manzo Phone: 925-734-6400

Name of Company: SOMA Environmental Engineering, Inc Fax: 925-734-6401

Address of Company: 6620 Owens Drive, Suite A, Pleasanton, CA

Describe type of work to be performed: **RE: ENMI 12103** Install one two inch groundwater monitoring well in the north sidewalk of 65th Street in front of 6501 Sh and one groundwater monitoring well in the west sidewalk of Shattuck Avenue in front of 6501 Shattuck Avenue.

Location of work: sidewalk on 65th and Shattuck Ave Between* 65th Street And* Shattuck Avenue

Work date (s): ☐ Mon-Fri ☐ Sat-Sun Work Hours: to

Please Follow these Steps in Order to Complete a Traffic Control Plan:

A. **Drawing Area**: The full width of all streets adjacent to the site MUST be included in the drawing. Include the entire block in which your work is located for every street that is adjacent to your site.

B. **Include Street Names, Direction of Traffic on the Street, and North Arrow**

C. **Show Existing Number of Lanes in all Directions** (with any pavement arrows)

D. **Check the Box(s) that Apply:** All checked items **MUST** be shown on the drawing

- ☐ Lane Closure
- ☐ Street Closures **(must provide detour plan)**
- ☐ Use of Median
- ☐ Use Parking Lane
- ☑ Sidewalk Closure **(must provide pedestrian walk way)**

E. **Show All Dimensions** of street widths (curb to curb), lane widths, sidewalk widths, and work area dimension.
(Note: Traffic Control Application / Plans missing the above information will not be accepted or processed.)

F. **Show the Name and Locations** of all advanced warning devices, flaggers, delineators, warning and construction signs to be used.

RENEWAL PROCESS: Resubmit a completed Traffic Control Application with the old approved plan (with the necessary modifications / changes to the plans).

FOR HELP in preparing a traffic control plan, see Temporary Traffic Control Pocket Reference Guide 2007, Work Area Traffic Control Handbook 2006, or the California Manual on Uniform Traffic Control (MUTCD) 2003, Chapter 6.
http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/ca_mutcd.htm
For City website: http://www.oaklandpw.com/Page548.aspx

* Name the streets that are the boundaries of your work area.

SPECIAL PROVISION 7-10.1 TRAFFIC REQUIREMENTS

Project Name: _____
Project Number: TSD 12-0172__
Reviewed By: B.Chang
Date: 8/22/2012_
Permit good from__8/23/2012_
to___9/23/2012___

ADD NEW SUBSECTION TO READ:
SP 7-10.1.4 Vehicular Traffic

Attention is directed to Section 7-10. Public Convenience and Safety, of the City of Oakland Standard Specification for Public Works Construction, 2006 Edition (Include this paragraph for p-jobs, excavation permits or obstruction permits).

The Contractor shall conduct its work in such a manner as to provide public convenience and safety and according to the provisions in this subsection. The provisions shall not be modified or altered without written approval from the Engineer.

Standard traffic control devices shall be placed at the construction zone according to the latest edition of the Work Area Traffic Control Handbook or Manual on Uniform Traffic Control Devices (MUTCD), Chapter 6 – "Traffic Controls for Construction and Maintenance Work Zone," or as directed by the Engineer.

All trenches and excavations in any public street or roadway shall be back filled and opened to traffic, or covered with suitable steel plates securely placed and opened to traffic at all times except during actual construction operations unless otherwise permitted by the Engineer.

Each section of work shall be completed or temporarily paved and open to traffic in not more than 5 days after commencing work unless otherwise permitted in writing by the Engineer.

Where construction encroaches into the sidewalk area, a minimum of 5 ½ feet of unobstructed sidewalk shall be maintained at all times for pedestrian use. Pedestrian barricades, shelter, and detour signs per Caltrans standards may be required.

The contractor shall conduct its operation in such a manner as to leave the following traffic lanes unobstructed and in a condition satisfactory for vehicular travel during the Obstruction Period. At all times traffic lanes will be restricted and reopened to travel. Emergency access shall be provided at all times.

Street Name Limits	Obstruction Period	North Bound	South Bound	East Bound	West Bound
Shattuck Ave west side sidewalk approx 50ft north of 65th Street	Mon. – Sun. 7:30am – 4:30pm	N/A	Sidewalk Closure	N/A	N/A
65th St north side sidewalk approx 75ft west of Shattuck Ave	Mon. – Sun. 7:30am – 4:30pm	N/A	N/A	N/A	Sidewalk Closure

The Contractor Shall Also include all check item:

1. ☐ Design a construction traffic control plan and submit (2) copies to the Engineer for approval prior to starting any work.
2. ☒ Replace all signs, pavement markings, and traffic detector loops damaged or removed due to construction within 3 days of completion of work or the final pavement lift.
3. ☒ Provide advance notice to Oakland Police at (510) 777-3333 (24-hrs) and Oakland Fire at (510) 238-3331 (2-rhs) when a single lane of traffic or less is provided on any street.
4. ☒ Provide 72-hour advance notice to AC Transit at (510) 891-4750 when affecting a bus stop.
5. ☒ For Caltrans roadways, ramps, or maintained facilities, the Contractor shall obtain appropriate permits and notify the Traffic Management Center 24 hours in advance of any work.
6. ☒ Flagger control is required. Certified Flagger is required.
7. ☐ Pedestrian walkway by K-rail, Canopy or Plywood is required. (See detour plan)
8. ☒ Pedestrian traffic shall be maintained and guided through the project at all times.
9. ☒ Provide advance notice to Business and Residence within 72-hours.
10. ☒ Allow all traffic movement at intersection.

Nothing specified herein shall prohibit emergency work and/or repair necessary to ensure public health and safety.

Incident 246

CITY OF OAKLAND • Department of Planning, Building and Neighborhood Preservation
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# X1201665 Job Site 6501 SHATTUCK AV Parcel# 016 -1428-011-02

Descr Install monitoring well MW-1 on 65th St side. Separate permit for MW-3 on Shattuck St side.
Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR.
Permit Issued 08/17/12
Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	BRUDER LLC		(510)222-1421		
Contractor	WOODWARD DRILLING CO.,INC	X	(707)374-4300	710079	C57
Arch/Engr					
Agent	SOMA ENVIRO/ELENA MANZO		(925)734-6400		
Applic Addr	P.O.BOX 336, RIO VISTA, CA, 94571				

JOB SITE

$436.05 FEES TO BE PAID AT ISSUANCE

$71.00 Applic	$309.00 Permit
$.00 Process	$36.10 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	$19.95 Tech Enh

Application Processed By _____ Date: _____

Permit Issued By _____ Date: _____

Finaled By _____ Date: _____

Application Docs Forwarded To _____ Date: _____

ADDRESS:

DIST:

CITY OF OAKLAND

Date: 08/23/12 Amt Paid: $1,471.10
By: SYK Register ROS Receipt# 169955

CITY OF OAKLAND • Department of Planning, Building and Neighborhood Preservation
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Project Address: 6501 SHATTUCK AV

Licensed Contractors' Declaration
I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration
I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender_____ Address_____

Workers' Compensation Declaration

I hereby affirm under penalty of perjury one of the following declarations:

[ ] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[ ] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER:_____POLICY NO. _____

[ ] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Hazardous Materials Declaration

I hereby affirm that the intended occupancy [ ] WILL [ ] WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit.

DIST:_____ ADDRESS:_____

PRINT NAME _____ Signature [ ] Contractor, or [ ] Agent _____ Date

SOMA
ENVIRONMENTAL ENGINEERING, INC.
6620 Owens Drive, Suite A • Pleasanton, CA 94588
TEL (925)734-6400 • FAX (925)734-6401
www.somaenv.com

July 6, 2012

City Engineer
Community and Economic Development Agency
250 Frank H. Ogawa Plaza, Suite 2340
Oakland, CA 94612

Re: Request to install the proposed groundwater monitoring wells in the sidewalk area adjacent to 6501 Shattuck Ave, Oakland, CA

Dear City Engineer:

SOMA Environmental Engineering, Inc. has prepared this letter on behalf of Mr. Athan Magganas, manager of Bruder LLC, owner of the property located at 6501 Shattuck Avenue, California (the site). This letter request was prepared in compliance with Alameda County Department of Environmental Health (ACDEH) requirements for the groundwater monitoring well installation, documented in their correspondence dated February 10, 2011 (attached hereto). The proposed well installation procedures were described in SOMA's report dated December 13, 2010, which was submitted to ACDEH for review and approval.

In order to select the appropriate well placement, the proposed areas of possible encroachment were marked using chalk-based white paint, and Underground Service Alert (USA) clearance, verifying that drilling areas were clear of underground utilities was obtained. Based on review of USA markings, it appears that multiple utility lines exist in the traffic lanes of Shattuck Avenue as well as 65th Street adjacent to the site. Pictures, showing the identified gas and AT&T lines in the aforementioned streets, are attached hereto. As such, based on the presence of several underground utility lines in the traffic lanes, SOMA requests to allow the installation of the proposed groundwater monitoring wells (MW-1 and MW-3) in the sidewalk areas adjacent to the site. A map showing the proposed areas of encroachment, along with a detailed drawing of proposed well covers, the anticipated well casing construction diagrams are also attached.

It is anticipated that these wells MW-1 and MW-3 will be monitored for a minimum of four consecutive quarters in order to evaluate the quality of the

shallow groundwater beneath the site. If the chemical concentrations in groundwater are acceptable upon completion of the four quarterly sampling events, the site closure will be requested, and these wells will be properly decommissioned. At the time of well decommissioning, each sidewalk square, where these wells would be located, will be removed and the entire area resurfaced to match the existing grade, as required.

Thank you very much for your time and consideration of this matter. If you have any questions or comments concerning the above, please do not hesitate to call me or Ms. Elena Manzo, SOMA's Principal Scientist, at (925) 734-6400.

Sincerely,

Mansour Sepehr, PhD, PE
Principal
Attachments:

Photographic Documentation
Letter from the property owner requesting encroachment
Request for overtime plan check
Figure 1: Map showing locations of proposed encroachment
Certificate of Insurance
The most current, legible recorded Grant Deed with legal description
Detailed drawing of well cover and casing
Regulatory correspondence

June 26, 2012

City Engineer
250 Frank H. Ogawa Plaza, Suite 2310
Oakland, CA 94612

Re: Encroachment Permit Request for 6501 Shattuck Ave, Oakland, CA

Deer City Engineer,

At the request of the City of Oakland and under the direction of the city and other relevant agencies, BRUDER LLC recently removed underground tanks and contaminated soil from this property.

Alameda County Health Care Services Agencies was designated as the oversight agency for this site, and as part of the process for concluding the work, the county is requesting an installation of two groundwater monitoring wells in the sidewalk areas in front and to the side of this property. Each well box will be set level with the existing sidewalk and will consist of metal lid and collar measuring approximately 8-inches to 10-inches in diameter. Approximate well locations (wells MW-1 and MW-3) are shown on Figure 1, site plan is attached hereto. It is anticipated that upon completion of four quarters of groundwater monitoring utilizing these wells, they will be properly destroyed and this encroachment permit rescinded.

We are applying to you for an encroachment and any other relevant permits to complete this well installation. As such, we would like to designate SOMA Environmental to act as an authorized representative for BRUDER LLC for the sole purpose of procuring necessary permits for construction of monitoring wells for this property.

Sincerely

Athan Magganas
Manager of
BRUDER LLC
Owner of 6501 Shattuck Ave
2550 Appian Way Ste 201
Pinole, CA 94564
510 222 1421

CITY OF OAKLAND
COMMUNITY & ECONOMIC DEVELOPMENT AGENCY

250 Frank H. Ogawa Plaza
Second Floor, Suite 2114
Oakland, CA 94612
(510) 238-6993
Fax (510) 238-2263

REQUEST FOR OVERTIME PLAN CHECK

EFFECTIVE JULY 6th 2010

I hereby request plan check services ***OUTSIDE OF NORMAL WORK HOURS***. I understand that the plan check I am requesting can involve staff of multiple departments including: Building Services, Planning & Zoning, and Fire. I further understand that staff will perform plan check and permit processing work that involves review of survey, grading, plot plan and structural plans for compliance with the Fire Code, Building Code and Planning Code.

I agree to pay the overtime rates listed below. I understand that I will be charged a one-hour minimum by each department I select. I understand that the plan reviewer may determine that review by other departments is required. The plan reviewer will make a reasonable effort to notify me if referral to another department is deemed necessary.

I understand that the City of Oakland will not guarantee immediate availability of staff that can perform work outside of normal work hours, but will make reasonable effort to provide expedited service.

Applicant's Signature

July 3, 2012
Date

Mansour Sepehr
Print Name

925-734-6400
Phone No.

emanyo@somaenv.com
Email Address

925-734-6401
Fax No.

for 6501 Shattuck Ave, Oakland, CA

COMPLETE THE FOLLOWING INFORMATION:

Permit Application #: _____

Zoning/Design Review Application #: _____

Project Address: _____

Type of Project/Work: _____

☐ REQUEST BUILDING (plan review & processing) ☐ REQUEST FIRE ☐ REQUEST ZONING

No specific plan checker may be requested. Overtime work is assigned based on plan checker's availability for fastest turnaround.

OFFICE USE ONLY

Plan Checker Assigned: _____ Hours @ $219.18/hr* _____

Process Coordinator Assigned: _____ Hours @ $219.18/hr* _____

Approved By: _____ Date: _____ Amount Due: $_____

Planner Assigned: _____ Hours @ $219.18/hr* _____

Approved By: _____ Date: _____ Amount Due: $ _____

Fire Prevention Engineer Assigned: _____ Hours @ $404.15*/hr.: _____

Approved By: _____ Date: _____ Amount Due: $ _____

*includes 9.5% Records Management and 5.25% Technology Enhancement fees.

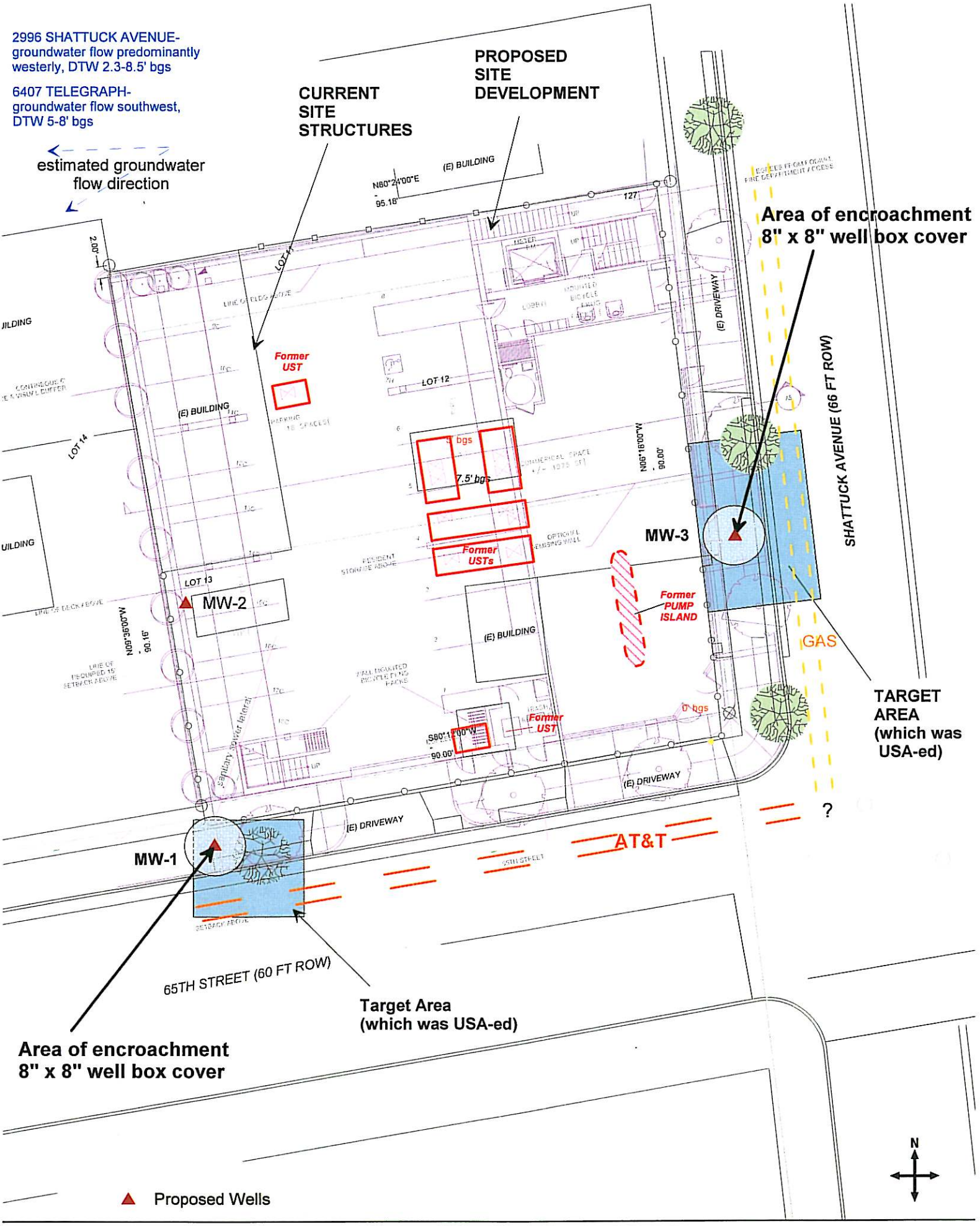


Figure 1: Map showing locations of proposed encroachment

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 7/3/2012

PRODUCER Phone: 559-437-3360 Fax: 559-437-3385
Alliant Insurance Services, Inc.
7525 N. Cedar Ave.
Suite 101
Fresno CA 93720

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: Star Ins Co	18023
INSURER B: Seabright Insurance Company	15563
INSURER C:	
INSURER D:	
INSURER E:	

INSURED
Woodward Drilling Company, Inc.
P. O. Box 336
Rio Vista CA 94571

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	X	GENERAL LIABILITY	CP0165365	8/20/2011	8/20/2012	EACH OCCURRENCE	$ 2,000,000
		X COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurence)	$100,000
		CLAIMS MADE X OCCUR				MED EXP (Any one person)	$ 5,000
		X XCU				PERSONAL & ADV INJURY	$ 2,000,000
						GENERAL AGGREGATE	$ 4,000,000
		GEN'L AGGREGATE LIMIT APPLIES PER:				PRODUCTS - COMP/OP AGG	$ 4,000,000
		X POLICY PRO-JECT LOC				S&A POLLUTION	1,000,000
A	X	AUTOMOBILE LIABILITY	CA0165365	8/20/2011	8/20/2012	COMBINED SINGLE LIMIT (Ea accident)	$ 2,000,000
		X ANY AUTO				BODILY INJURY (Per person)	$
		ALL OWNED AUTOS				BODILY INJURY (Per accident)	$
		SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident)	$
		HIRED AUTOS					
		NON-OWNED AUTOS					
		GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
		ANY AUTO				OTHER THAN AUTO ONLY: EA ACC	$
						AGG	$
A	X	EXCESS/UMBRELLA LIABILITY	UM0165365	8/20/2011	8/20/2012	EACH OCCURRENCE	$ 5,000,000
		X OCCUR CLAIMS MADE				AGGREGATE	$ 5,000,000
						S&A Pollution	$ $3,000,000
		DEDUCTIBLE					$
		X RETENTION $10,000					$
B		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	BB1113886	10/1/2011	10/1/2012	X WC STATU-TORY LIMITS OTH-ER	
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?				E.L. EACH ACCIDENT	$ 1,000,000
		If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
						E.L. DISEASE - POLICY LIMIT	$ 1,000,000
		OTHER					

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
Certificate Holder is included as an Additional Insured with Waiver of Subrogation and Primary and Non-Contributory Wording to apply as respects to General Liability and Automobile Liability per attached forms
Certificate Holder includes: SOMA Environmental Engineering, Inc., the City of Oakland, its officers, agents, employees, and volunteers.

CERTIFICATE HOLDER

SOMA Environmental Engineering, Inc.
6501 Shattuck Ave
Oakland CA 94609

CANCELLATION *10 Days Notice for Non Payment

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30* DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE Douglas Newton

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED INSURED

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM
GARAGE COVERAGE FORM
MOTOR CARRIER COVERAGE FORM
TRUCKERS COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions ofthe Coverage Form apply unless modified by this endorsement.

This endorsement identifies person(s) or organization(s) who are "insureds" under the Who Is An Insured Provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Endorsement Effective: 7/3/2012	Countersigned By:
Named Insured: Woodward Drilling Company, Inc.	Douglas Newton (Authorized Representative)

SCHEDULE

Name of Person(s) or Organization(s):	SOMA Environmental Engineering, Inc. 6501 Shattuck Ave Oakland CA 94609

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to the endorsement.)

Each person or organization shown in the Schedule is an "insured" for Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured Provision contained in **Section II** of the Coverage Form.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

It is hereby agreed and understood that the Coverage Form is amended as follows:

The following is added to the **Transfer Of Rights Of Recovery Against Others To Us** Condition under **Section IV - Business Auto Conditions:**

We waive any right of recovery we may have against any person or organization because of payments we make for injury or damage caused by an "accident" or "loss" arising out of your operations done under a contract with that person or organization when such contract requires a waiver of our rights of recovery against others.

All other policy terms, conditions, definitions and exclusions remain unchanged.

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT—CALIFORNIA

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from US.)

You must maintain payroll records accurately segregating the remuneration of your employees while engaged in the work described in the Schedule.

The additional premium for this endorsement shall be __*__% of the California workers' compensation premium otherwise due on such remuneration.

Schedule

Person or Organization	**Job Description**
WHERE YOU ARE REQUIRED BY WRITTEN CONTRACT TO OBTAIN THIS AGREEMENT FROM US, PROVIDED THE CONTRACT IS SIGNED AND DATED PRIOR TO THE DATE OF LOSS TO WHICH THIS WAIVER APPLIES. IN NO INSTANCE SHALL THE PROVISIONS AFFORDED BY THIS ENDORSEMENT BENEFIT ANY COMPANY OPERATING AIRCRAFT FOR HIRE.	

*The premium charge for this endorsement shall be 2% of the premium developed in the State of California, but not less than $500 policy minimum premium.

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.
(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective	10/01/11	Policy No.	BB1113886	Endorsement No.	10
Insured	Woodward Drilling Company Inc			Policy Effective Date	10/01/11
Insurance Company	SeaBright Insurance Company				

Countersigned By _____

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSUREDS – ENERGY CONTRACTORS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

Under **SECTION II – WHO IS AN INSURED**, Paragraph **5.** is added as follows:

5. a. Any person or organization with whom you agreed, because of a written contract, written agreement or permit, is an insured, but only with respect to:

(1) "Your work" for the additional insured(s) at the location designated in the contract, agreement or permit.

(2) Facilities owned or used by you.

This insurance applies on a primary basis if that is required by the written contract, written agreement or permit.

b. This provision does not apply:

(1) Unless the written contract or written agreement has been executed or permit has been issued prior to the "bodily injury," "property damage," "personal injury" or "advertising injury."

(2) To any person or organization included as an insured by an endorsement issued by us and made part of this Coverage Form.

(3) to any lessor of equipment:

(a) after the equipment lease expires; or

(b) if the "bodily injury," "property damage," "personal injury" or "advertising injury" arises out of the sole negligence of the lessor.

(4) To any:

(a) Owners or other interests from whom land has been leased which takes place after the lease for that land expires; or

(b) Managers or lessors of premises if:

(i) the occurrence takes place after you cease to be a tenant in that premises; or

(ii) the "bodily injury," "property damage," "personal injury" or "advertising injury" arises out of structural alterations, new construction or demolition operations performed by or on behalf of the manager or lessor.

All other terms and conditions of this policy remain unchanged.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

It is hereby agreed and understood that the Coverage Form is amended as follows:

The following is added to the **Transfer Of Rights Of Recovery Against Others To Us** Condition under **Section IV - Commercial General Liability Conditions:**

We waive any right of recovery we may have against any person or organization because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization when such contract requires a waiver of our rights of recovery against others.

All other policy terms, conditions, definitions and exclusions remain unchanged.

RECORDING REQUESTED BY:

Old Republic Title Company

Order No.: 0190005779-BM
APN: 016-1428-11-2

When Recorded Mail Document and Tax Statements to:

Bruder, LLC
2550 Appian Way, Suite 201
Pinole, CA 94564

2009074429 03/13/2009 10:24 AM
OFFICIAL RECORDS OF ALAMEDA COUNTY
PATRICK O'CONNELL
RECORDING FEE: 22.00
COUNTY TAX: 203.50
CITY TAX: 2775.00
2 PGS

SPACE ABOVE THIS LINE IS FOR RECORDER'S USE

Grant Deed

The undersigned grantor(s) declare(s):
Documentary Transfer Tax is $203.50
(X) computed on full value of property conveyed, or
( ) computed on full value less of liens and encumbrances remaining at time of sale.
( ) Unincorporated area: (X) City of Oakland 2,775.00

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
Ali Reza Khashabi, an unmarried man

hereby GRANT(S) to
Bruder, LLC

that property in City of Oakland, Alameda County, State of California, described as:
The southern 10 feet of lot 11 and all of lots 12 and 13, Block 4, Edgewood Park filed October 18, 1906, Map Book 21, Page 72, Alameda County Records.

Date: February 26, 2009

Ali Reza Khashabi

State of California
County of Contra Costa

On 3-12-09 before me, B. Morrison Ali Reza Khashabi a Notary Public, personally appeared Ali Reza Khashabi
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Name B. Morrison
(typed or printed)

B. MORRISON
COMM. #1780685
Notary Public-California
CONTRA COSTA COUNTY
My Comm. Exp. Dec. 15, 2011
(Area reserved for official notarial seal)

B. Morrison
Comm. # 1780685
Notary Public · California
Contra Costa County
Comm. Exp. Dec 15, 2011

State of California

County of Contra Costa

On 3.12.09 before me, B. Morrison, a Notary Public, personally appeared Ali Reza Khashaki, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

Name: B. Morrison
(typed or printed)

B. MORRISON
COMM. #1780685
Notary Public-California
CONTRA COSTA COUNTY
My Comm. Exp. Dec. 15, 2011

(Area reserved for official notarial seal)

B. Morrison
Comm. # 1780685
Notary Public - California
Contra Costa County
Comm. Exp. Dec 15, 2011

Morrison Bros. Co.

www.morbros.com

Fig. 418 Series

Limited Access Test Well Manhole

The limited access manholes are round with a bolted and gasketed cover. Used for access ports in driveways where limited access and/or water resistant conditions are required. The bolts are standard hex head stainless steel. Meets H-20 load requirements. Each manhole is individually boxed.

Fig. 418XA

The 418 has a plain cover. The 18" x 12" and 18" x 18" use a flat head screw.

The 418XA has a monitoring well manhole warning and an API symbol on the cover.

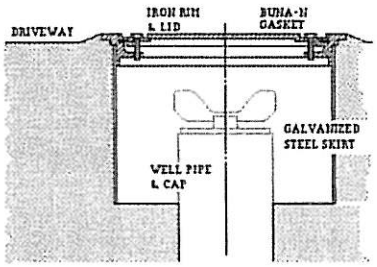
The 418XAH is the same as the 418XA but has a 14-gauge heavy skirt and nylon washers.

The 418XAP is the same as the 418XA but the cover is painted white with a black triangle .

The 418XAS is the same as the 418XA but with a steel cover.

The 418XAW is the same as the 418XA but with continuous welded construction, nylon washers, heavy skirt (14-gauge), and skirt anchor lugs.

The 418TM has a cover indicating "TANK MONITOR" for UST leak detection. Bolt down and gasket.



I.D. NUMBER	A	B	C	D	E	F	G	H	SET SCREW	WEIGHT
418—0200 AM	12" x 7"	CI	GS	Buna	SS	N	7"	12"	1/2"	31
418—1000 AM	18" x 12"	CI	GS	Buna	SS	N	13.25"	17.25"	1/2"	66
418—1100 AM	18" x 18"	CI	GS	Buna	SS	N	19.25"	17.25"	1/2"	69
418—1300 AM	24" x 18"	CI	GS	Buna	SS	N	18.6875"	26.656"	3/8"	104
418TM-1100 AM	18" x 12"	CI	GS	Buna	SS	N	13.25"	17.25"	1/2"	72
418TM-1200 AM	18" x 18"	CI	GS	Buna	SS	N	17.25"	17.25"	1/2"	78
418XA-0500 AM	7" x 10"	CI	GS	Buna	SS	N	10"	6"	5/16"	8
418XA-0850 AM	8" x 8"	CI	GS	Buna	SS	N	8.125"	8.125"	3/8"	13.5
418XA-0900 AM	8" x 12"	CI	GS	Buna	SS	N	13"	8.125"	3/8"	15
418XA-0100 AM	9" x 7"	CI	GS	Buna	SS	N	7.0625"	9"	1/2"	17
418XA-0200 AM	12" x 7"	CI	GS	Buna	SS	N	7"	12"	1/2"	27
418XA-0300 AM	9" x 12"	CI	GS	Buna	SS	N	13.0625"	9"	1/2"	20
418XA-0400 AM	12" x 12"	CI	GS	Buna	SS	N	13"	12"	1/2"	30
418XA-1000 AM	18" x 12"	CI	GS	Buna	SS	N	13.25"	17.25"	1/2"	75
418XA-1100 AM	18" x 18"	CI	GS	Buna	SS	N	19.25"	17.25"	1/2"	78
418XAH0300 AM	9" x 12"	CI	14G	Buna	SS	N	13.0625"	9"	1/2"	22
418XAP0500 AM	7" x 10"	CI	GS	Buna	SS	Y	10"	6"	5/16"	8
418XAP0850 AM	8" x 8"	CI	GS	Buna	SS	Y	8.125"	8.125"	3/8"	13.5
418XAP0900 AM	8" x 12"	CI	GS	Buna	SS	Y	13"	8.125"	3/8"	17
418XAP0300 AM	9" x 12"	CI	GS	Buna	SS	Y	13.0625"	9"	1/2"	20
418XAP0200 AM	12" x 7"	CI	GS	Buna	SS	Y	7"	12"	1/2"	27
418XAP0400 AM	12" x 12"	CI	GS	Buna	SS	Y	13"	12"	1/2"	29
418XAP1200 AM	18" x 12"	CI	GS	Buna	SS	Y	13.25"	17.25"	1/2"	75
418XAP1300 AM	18" x 18"	CI	GS	Buna	SS	Y	19.25"	17.25"	1/2"	86
418XAS0400 AM	12" x 12"	ST	GS	Buna	SS	N	13"	12"	1/2"	27
418XAW0300 AM	9" x 12"	CI	GS	Buna	SS	N	13.0625"	9"	1/2"	20
418XAW0400 AM	12" x 12"	CI	GS	Buna	SS	N	13"	12"	1/2"	34
418XAW0700 AM	9" x 12"	CI	GS	Buna	SS	Y	13.0625"	9"	1/2"	20
418XAW0800 AM	12" x 12"	CI	GS	Buna	SS	Y	13"	12"	1/2"	34

CHART KEY:

A—Size
B—Cover Material: CI (Cast Iron); ST (Steel)
C—Skirt Material: GS (Galvanized Sheet Metal); 14G (14-Gauge)
D—Gasket Material: Buna
E—Bolt Material: SS (Stainless Steel)
F—Painted Cover: Y (Yes) or N (No)
G—Height
H—Skirt Diameter
Set Screw—Size
Weight—Shipping Weight

Morrison Bros. Co.
Established 1855

Distributed By: Continental Supply, Co.
530-669-7958 (tel) • 800.464.9156 • 530.669.7966 (fax)

ENVIRONMENTAL ENGINEERING, INC.

DRAFT: MW-1 and MW-3

PROJECT: 5032

DATE DRILLED: NA

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: RSI Drilling

First Encountered GW:NA
Stablized GW: NA

DRILLING METHOD: HSA

T.O.C. TO SCREEN: N/A

BORING DIAMETER: 10-inch

SCREEN LENGTH: N/A

LOGGED BY: NA

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION (Inferred from B-7)
24.9			CL-ML	Hand Auger top 5 feet, 2 inches asphalt SILTY CLAY:Black, moist to very moist, soft, medium plastic, medium toughness, medium dry strength, rapid dilatancey, no PHC odor
12.1				
66			CL	SANDY LEAN CLAY: Black, moist, firm, fine- to medium-grained sand, high plastic, rapid dilatancy, medium toughness, medium dry strength, PHC odor at 4.5 feet, green staining at 6 feet
18	5			
83				
46			SC	CLAYEY SAND w/gravel: Green, firm, damp, gravel up to 1" at 9.5 feet, 65% fine- to coarse-grained sand, ~30 %clay: high plastic, medium toughness, medium dry strength, slow dilatancy, PHC odor
139				
304	10			As Above: Rust mottling at 11 feet, decrease coarse sand and decreased PHC odor
463				
8.9			CL	LEAN CLAY: Grey, soft, moist, ~15% fine- to coarse g rained sand (subrounded to angular), 85% clay: high plastic, medium toughness, medium dry strength, rapid dilatancey, no PHC odor
0.0				
0.0				As Above: very soft, very moist
0.0	15			
0.0			CL	SANDY LEAN CLAY: Reddish-brown with grey mottling, soft, v. fine sand (~20 %), high plastic, rapid dilatancy, medium toughness, medium dry strength, moist, no PHC odor
0.0				
1.9				As Above: fine- to medium-grained sand (angular)
0.0	20		SC	CLAYEY SAND: Reddish-brown, very soft, moist to very moist, 5% coarse-grained sand, ~50% fine to very fine sand, clay: high plastic, medium toughness, medium dry strength, rapid dilatancy, no PHC odor
0.0				Wet stringers
	25			

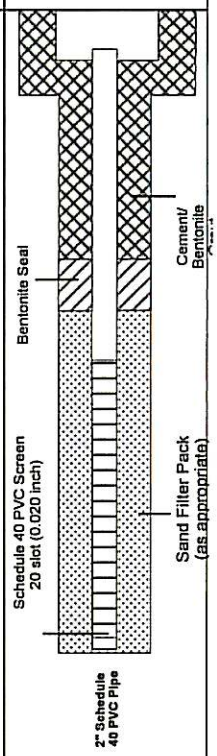
SPLIT SPOON — SAMPLED — CORE

GW LEVEL

BLOWCOUNTS

WELL DIAGRAM

NA



Screening interval may vary, and will depend on observed lithology
The interval between 7-17' bgs will be targeted for well screening

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

February 10, 2011

Athan Magganas
Bruder LLC
2550 Appian Way, Suite 201
Pinole, CA 94564-2262

Ali Khashabi
East Bay Smog Center & Auto Repair
Address Unknown

Subject: Interim Remedial Action for Fuel Leak Case No. RO0003066 and GeoTracker Global ID T10000002456, Gas Station / East Bay Smog Center & Auto Repair, 6501 Shattuck Avenue, Oakland, CA 94609

Dear Messrs. Magganas & Khashabi:

Thank you for the recently submitted document entitled, "Addendum to Interim Remedial Excavation and Proposed Soil and Groundwater Investigation," dated December 13, which was prepared by SOMA Environmental Engineers, Inc. for the subject site. Alameda County Environmental Health (ACEH) staff has reviewed the case file including the above-mentioned work plan for the above-referenced site. SOMA proposes to backfill the excavation with a clayey backfill material due to ACEH's concerns regarding potential vapor migration. SOMA also proposes to re-collect a confirmation sample where historical sample EX-3-S-W was collected as well as install three groundwater monitoring wells to delineate the groundwater contaminant plume.

ACEH does not oppose the majority of the proposed scope of work, but does have some reservations regarding the proposed monitoring well installations and requests that you address the following technical comments, perform the proposed work, and send us the technical reports described below.

TECHNICAL COMMENTS

1. **Expedited Site Assessment** – SOMA plans to install three groundwater monitoring wells (MW-1 through MW-3) to assess groundwater conditions at the site. ACEH recommends that prior to installation of permanent groundwater monitoring points, a series of borings are installed so that monitoring well locations are based on the data obtained. This type of investigation usually involves drilling one or more borings for soil and depth-discrete groundwater sampling and analysis. Boring installation locations should be positioned to determine the extent of soil and groundwater contamination, groundwater flow direction and

gradient to address the data gaps at the site. Please submit a revised site figure by the date specified below that illustrates proposed boring locations to define the extent of the groundwater contaminant plume.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **March 14, 2011** – Revised Site Figure
- **May 11, 2011** – Soil and Water Investigation Report

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,

Digitally signed by Paresh Khatri
DN: cn=Paresh Khatri, o=Alameda County Environmental Health, ou=Local Oversight Program, email=Paresh.Khatri@acgov.org, c=US
Date: 2011.02.10 15:04:30 -08'00'

Paresh C. Khatri
Hazardous Materials Specialist

Enclosure: Responsible Party(ies) Legal Requirements/Obligations
ACEH Electronic Report Upload (ftp) Instructions

cc: Mansour Sepehr, SOMA Environmental Engineering, Inc., 6620 Owens Drive, Suite A, Pleasanton, CA 94588 (*Sent via E-mail to: msepehr@somaenv.com*)
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)
Vibeke Norgaard, 6501-ShattuckWatch Neighborhood Group (*Sent via E-mail to: vnorgaard@hotmail.com*)
Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Paresh Khatri, ACEH (*Sent via E-mail to: paresh.khatri@acgov.org*)
GeoTracker
File

Responsible Party(ies) Legal Requirements/Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention: RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for.**

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION AND BORING LOGS

Plate 1. Utility lines in the parking lane near the site

Plate 2. Utility lines in the parking lane near the site

Plate 3. Woodward Drilling setting up to drill MW-3

Plate 4. Woodward Drilling set up and drilling MW-2

Plate 5. Woodward Drilling sampling soil for MW-1

Plate 6. MW-2 completed with raised well box

Plate 7. MW-3 completed to grade

ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: MW-1

PROJECT: 5032

DATE DRILLED: August 30, 2012

SITE LOCATION: 6501 Shattuck Ave., Oakland

CASING ELEVATION: 128.70

DRILLER: Woodward Drilling

First Encountered GW: 21.00 feet
Stablized GW: 6.14 feet

DRILLING METHOD: DP/HSA

T.O.C. TO SCREEN: 7 ft.

BORING DIAMETER: 8-inches

SCREEN LENGTH: 17 ft.

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr

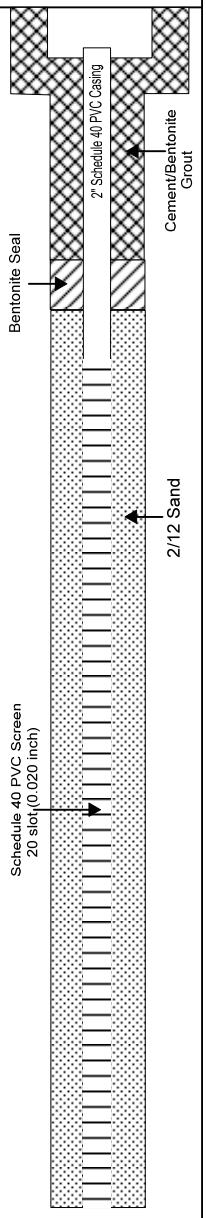
PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
0.5	0		SC	Hand auger to 5 ft. CLAYEY SAND: Dark brown, dry, ~85% fine- to medium-grained sand, ~15% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no Petroleum Hydrocarbon (PHC) odor.
0.9	5		CL	SANDY LEAN CLAY: Dark brown, dry, ~30% fine- to medium-grained sand, ~70% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no PHC odor.
0.3	10		CL	CLAY: Grayish-brown, hard, dry, medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no PHC odor.
0.3	15		CL	SANDY LEAN CLAY: Dark brown, moist, ~30% fine- to medium-grained sand, ~70% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no PHC odor. As above, moist, brown
0.5	20			As above, moist, brown, some wet stringers
0.7	25			

SAMPLED: SPLIT SPOON, CORE

GW LEVEL

BLOWCOUNTS

WELL DIAGRAM



COMMENTS: TD @ 24 feet

SOMA ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: MW-2

PROJECT: 5032

DATE DRILLED: August 29, 2012

SITE LOCATION: 6501 Shattuck Ave., Oakland

CASING ELEVATION: 130.32

DRILLER: Woodward Drilling

First Encountered GW: 21.00 feet
Stablized GW: 7.81 feet

DRILLING METHOD: DP/HSA

T.O.C. TO SCREEN: 7 ft.

BORING DIAMETER: 8-inches

SCREEN LENGTH: 17 ft.

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr

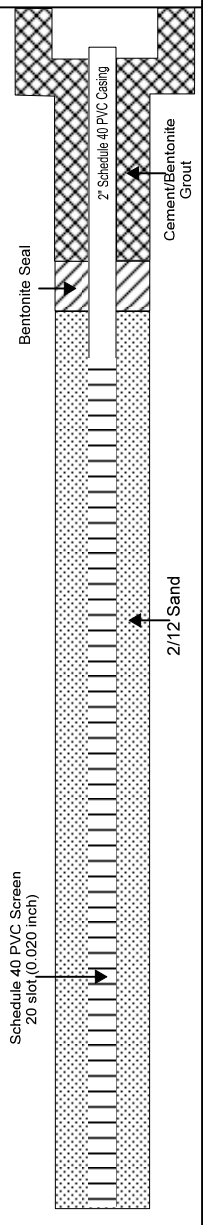
PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
0.4	0		SC	Hand auger to 5 ft. CLAYEY SAND: Dark brown, dry, ~85% fine- to medium-grained sand, ~15% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no Petroleum Hydrocarbon (PHC) odor.
187	5		CL	SANDY LEAN CLAY: Dark brown, dry, ~30% fine- to medium-grained sand, ~70% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, PHC odor.
	10		CL	CLAY: Grayish-brown, hard, dry, medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no PHC odor.
1.3			CL	SANDY LEAN CLAY: Dark brown, moist, ~30% fine- to medium-grained sand, ~70% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no PHC odor.
0.4	15			As above, moist, brown
0.3	20			As above, moist, brown, some wet stringers
0.8				
0.2	25			

SAMPLED: SPLIT SPOON, CORE

GW LEVEL

BLOWCOUNTS

WELL DIAGRAM



COMMENTS: TD @ 24 feet

SOMA ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: MW-3

PROJECT: 5032

DATE DRILLED: August 29, 2012

SITE LOCATION: 6501 Shattuck Ave., Oakland

CASING ELEVATION: 131.34

DRILLER: Woodward Drilling

First Encountered GW: 21.00
Stablized GW: 7.89

DRILLING METHOD: DP/HSA

T.O.C. TO SCREEN: 7 ft.

BORING DIAMETER: 8-inches

SCREEN LENGTH: 17 ft.

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr

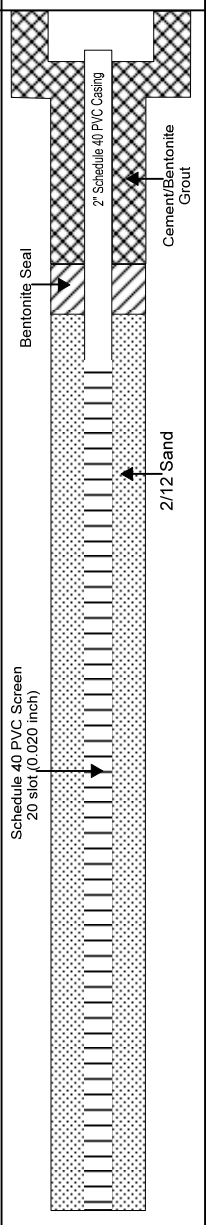
PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
0.2	0		SC	Hand auger to 5 ft. CLAYEY SAND: Dark brown, dry, ~85% fine- to medium-grained sand, ~15% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no Petroleum Hydrocarbon (PHC) odor.
0.2	5		CL	SANDY LEAN CLAY: Dark brown, dry, ~30% fine- to medium-grained sand, ~70% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no PHC odor.
0.1	10		CL	CLAY: Grayish-brown, hard, dry, medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no PHC odor.
0.9			CL	SANDY LEAN CLAY: Dark brown, moist, ~30% fine- to medium-grained sand, ~70% clay with medium dry strength, slow dilatancy, medium toughness, no HCl reaction, medium plasticity, no PHC odor.
0.1	15			As above, moist, brown
0.3	20			As above, moist, brown, some wet stringers
0.0	25			

SAMPLED: SPLIT SPOON, CORE

GW LEVEL

BLOWCOUNTS

WELL DIAGRAM



COMMENTS: TD @ 24 feet

APPENDIX C

WASTE DISPOSAL MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. WDC 12-0037

2. Page 1 of 1

3. Generator's Name and Mailing Address
Athan Maggianas
2550 Appian Way Suite 201
Pinole, CA 94564
4. Generator's Phone (510) 520-1482

5. Transporter 1 Company Name: Woodward Drilling Co.

6. US EPA ID Number: CAL000355276

A. State Transporter's ID: 5916

B. Transporter 1 Phone: 707-374-4300

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Woodward Drilling Company Inc.
550 River Road
Rio Vista CA 94571

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 707-374-4300

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON HAZ WASTE WATER DRUMS	1	DM		
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Site Address
6501 Shattuck Ave
Oakland CA

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Elizabeth Hightower for SOMA
Signature: E. Hightower
Date: Month 10 Day 24 Year 12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID Gray
Signature:
Date: Month 10 Day 24 Year 12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name: Judie Hodson
Signature:
Date: Month 11 Day 6 Year 12

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. WDC 12-0038

2. Page 1 of 1

3. Generator's Name and Mailing Address
Arkun Magyaras
2550 Appian Way suite 201
Pinole, Alameda CA 94564
4. Generator's Phone (510) 520 1482

5. Transporter 1 Company Name: Woodward Drilling Company

6. US EPA ID Number: CALOOO355276

A. State Transporter's ID: 5116

B. Transporter 1 Phone: 707 374 4300

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Potrero Hills LANDFILL
3675 Potrero Hills Lane
Suisun, CA 94585

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone: 707 432-4622

	11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
GENERATOR	a. 6 NON HAZ soil Drums	6	DM		
	b.				
	c.				
	d.				

G. Additional Descriptions for Materials Listed Above
Site Address
6501 Shattuck Ave
Oakland CA

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PHLF 12219

NON-HAZARDOUS WASTE

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Elizabeth Hightower for Sond

Signature: [signature]

Date: Month 10 Day 24 Year 12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible]

Signature

Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Mike Stones

Signature: [signature]

Date: Month 10 Day 25 Year 12

APPENDIX D

WELL SURVEY REPORT

DATE: 9/04/2012
JOB#

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL ENGINEERING
6501 SHATTUCK AVENUE
OAKLAND, CA 94609

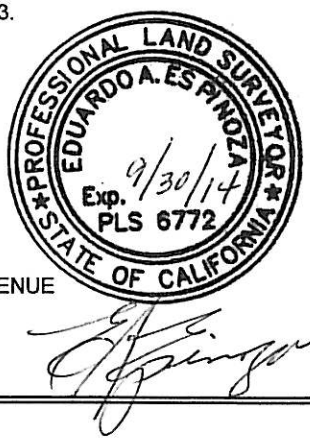
WELL ID #	NORTHING (FT.) / LATITUDE (D.DEG.)	EASTING (FT.) / LONGITUDE (D.DEG.)	ELEVATION (FT.)	DESCRIPTION
MW-1	2136901.934	6051727.243	128.70	2"PVC NOTCH NORTH SIDE
	N37.850339023	W122.266261635	129.19	SET PUNCH NORTH SIDE RIM
			129.22	CONC NORTH SIDE
MW-2	2136927.936	6051726.241	130.32	2" PVC NOTCH NORTH SIDE
	N37.850410368	W122.266266804	130.79	SET PUNCH NORTH SIDE RIM
			130.58	GRND NORTH SIDE
MW-3	2136937.443	6051817.078	131.34	2" PVC NOTCH NORTH SIDE
	N37.85044118	W122.26595287	131.72	SET PUNCH NORTH SIDE RIM
			131.73	CONC NORTH SIDE

HORIZONTAL AND VERTICAL CONTROL:
COORDINATE VALUES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83.
ELEVATIONS ARE NAVD 88 DATUM.

BASE STATIONS USED:
HT2918 BERKELEY H J HEINZ CO TOWER
NORTHING 2,138,045.28, EASTING 6,045,147.46
GPS BASE200 MW-3 PUNCH NORTH SIDE
NORTHING 2,136,937.769, EASTING 6,051,817.025, ELEVATION=131.724

BENCH MARK USED: CITY OF OAKLAND BM
MONUMENT 32 FEET AT THE NORTHWEST CORNER OF THE INTERSECTION OF SHATTUCK AVENUE AND ALCATRAZ AVENUE. ELEVATION=125.685'

EQUIPMENT USED: TRIMBLE GPS-R8 & TS S6, TOPCON AT-G2 LEVEL



Edgis Land Surveying
Land Surveying and Mapping
1374 Garland Avenue, Clovis, CA 93612
Phone (559) 803-2679 Fax (559) 222-2580
email: edgis@aol.com

APPENDIX E

WELL DEVELOPMENT DATA SHEETS

WELL DEVELOPMENT DATA SHEET 65th

WELL ID MW-1

PROJECT NAME: 6501 Shattuck Blvd, Oakland	DATE: 9/4/12
PROJECT NO.: 5032	PREPARED BY: E. Hightower

WELL TYPE: Monitoring	CONTRACTOR: Woodward	OPERATOR: Juan
RIG TYPE:		DATE OF DEVELOPMENT: 9/4/12
BAILER TYPE:	PUMP TYPE:	
DESCRIPTION OF DEVELOPMENT: Surge + bail, pump		
MEASURING POINT (MP) ELEVATION (FMSL):		

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
24.30/24.30	hard / hard	6.40	17.90	(2)	4	6	(0.16)	0.65	1.47	2.86	14.32

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
7 ft	24 ft	17 ft.

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
13:44						19.3	7.24	2500	920		
13:48						19.0	7.22	2230	353		
13:50						19.2	7.21	2120	53		
13:55	*Dry*					19.1	7.21	1990	56		
14:00						19.1	7.11	1930	130		
14:03						19.0	7.09	2110	133		
14:08						18.8	6.88	1530	372		
14:16						18.7	6.86	1520	1000		

WELL DEVELOPMENT DATA SHEET 65th (continued)

WELL ID MW-1

PROJECT NAME: 6501 Shattuck Blvd, Oakland	DATE: 9/4/12
PROJECT NO.: 5032	PREPARED BY: E. Hightower

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
14:24	~~*Dry*~~					18.5	7.34	2630	1000		
14:41			~~15~~	~15		18.1	7.36	2530	100		
	2 1 hour										

WELL DEVELOPMENT DATA SHEET Shattuck

WELL ID MW-3

PROJECT NAME: 6501 Shattuck Blvd, Oakland	DATE: 9/4/12
PROJECT NO.: 5032	PREPARED BY: E. Hightower

WELL TYPE: Monitoring	CONTRACTOR: Woodward	OPERATOR: Juan
RIG TYPE:		DATE OF DEVELOPMENT: 9/4/12
BAILER TYPE:	PUMP TYPE:	
DESCRIPTION OF DEVELOPMENT: Surge + bail, pump.		
MEASURING POINT (MP) ELEVATION (FMSL):		

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
24.40 / 24.80	soft / hard	6.30	18.10	(2)	4	6	(0.16)	0.65	1.47	2.90	14.48

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
7 ft.	24ft	17 ft.

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
14:55						20.5	7.25	1650	39.13	None	
	Dry					~~19.8~~	~~7.13~~	~~1050~~	~~588~~		
15:20						19.8	7.13	1050	588		
15:33						19.7	7.05	1030	623		
15:37						19.5	6.98	1010	602		
15:50	*Dry*					19.3	6.88	1020	533		
16:03	*Dry*					19.4	6.85	1030	498	↓	
				~10							

WELL DEVELOPMENT DATA SHEET

WELL ID MW-2

PROJECT NAME: 6501 Shattuck Blvd, Oakland	DATE: 9/4/12
PROJECT NO.: 5032	PREPARED BY: E. Hightower

WELL TYPE: Monitoring	CONTRACTOR: Woodward	OPERATOR: Juan
RIG TYPE:		DATE OF DEVELOPMENT: 9/4/12
BAILER TYPE:	PUMP TYPE:	
DESCRIPTION OF DEVELOPMENT: surge + bail, pump		
MEASURING POINT (MP) ELEVATION (FMSL):		

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
24.50/24.50	hard / hard	11.50	13.00	(2)	4	6	(0.16)	0.65	1.47	2.08	10.40

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
7 ft	24 ft	17ft

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
12:45						20.1	7.40	~~23000~~	1000	None	
12:46						19.4	7.32	2490	382		
12:51						18.5	7.46	1880	816		
12:56				~15		18.2	7.45	1630	476		
	~~Dry~~					~~18.3~~	~~7.43~~	~~1329~~	~~385~~		
13:31	0			~15.5		18.3	7.43	1329	385		
13:34	~~Dry~~										

APPENDIX F

LABORATORY REPORT AND CHAIN OF CUSTODY FORMS

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 239313
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 5032
Location : 6501 Shattuck Ave., Oakland
Level : II

Sample ID	Lab ID
MW-1@8FT	239313-001
MW-1@13FT	239313-002
MW-1@18FT	239313-003
MW-1@23FT	239313-004
MW-2@8FT	239313-005
MW-2@13FT	239313-006
MW-2@18FT	239313-007
MW-2@23FT	239313-008
MW-3@6FT	239313-009
MW-3@11FT	239313-010
MW-3@15FT	239313-011
MW-3@21FT	239313-012

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 09/07/2012

Tracy Babjar
Project Manager
(510) 204-2226

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**239313**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**5032**
Location:	**6501 Shattuck Ave., Oakland**
Request Date:	**08/31/12**
Samples Received:	**08/31/12**

This data package contains sample and QC results for six soil samples, requested for the above referenced project on 08/31/12. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recovery was observed for bromofluorobenzene (FID) in MW-2@8FT (lab # 239313-005). No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High surrogate recovery was observed for bromofluorobenzene in MW-2@8FT (lab # 239313-005). No other analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T LOGIN # 239313

Sampler: Lizzie Hightower

Project No: 5032

Report To: Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	TPH-g, TPH-d, TPH-mo 8015	VOCs (Full List) 8260	
1	MW-1@8ft	8/30/2012 9:42	*			6-inch sleeve				*	*	*	
2	MW-1@13ft	8/30/2012 9:51	*			6-inch sleeve				*	*	*	
3	MW-1@18ft	8/30/2012 10:07	*			6-inch sleeve				*	*	*	* Hold *
4	MW-1@23ft	8/30/2012 10:36	*			6-inch sleeve				*	*	*	* Hold *
5	MW-2@8ft	8/29/2012 14:41	*			6-inch sleeve				*	*	*	
6	MW-2@13ft	8/29/2012 14:53	*			6-inch sleeve				*	*	*	
7	MW-2@18ft	8/29/2012 15:15	*			6-inch sleeve				*	*	*	* Hold *
8	MW-2@23ft	8/29/2012 15:40	*			6-inch sleeve				*	*	*	* Hold *
9	MW-3@6ft	8/29/2012 10:21	*			6-inch sleeve				*	*	*	* Hold *
10	MW-3@11 ft	8/29/2012 10:55	*			6-inch sleeve				*	*	*	

Notes: **EDF OUTPUT REQUIRED**
Silica-gel clean-up required

RELINQUISHED BY:	RECEIVED BY:
E. Hightower 8/31/12 5:24 DATE/TIME	8/31/12 5:24 pm DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T LOGIN # 239313

Sampler: Lizzie Hightower

Project No: 5032

Report To: Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	TPH-g, TPH-d, TPH-mo 8015	VOCs (Full List) 8260	
11	MW-3@15ft	8/29/2012 11:09	*			6-inch sleeve				*	*	*	
12	MW-3@21ft	8/29/2012 11:32	*			6-inch sleeve				*	*	*	* HOLD *

Notes: EDF OUTPUT REQUIRED
Silica-gel clean-up required

RELINQUISHED BY:	RECEIVED BY:
8/31/12 5:24 DATE/TIME	8/31/12 5:24pm DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST Curtis & Tompkins, Ltd.

Login # 239313 Date Received 8/31/12 Number of coolers 1
Client SOMA ENVIRONMENTAL Project 5032

Date Opened 8/31/12 By (print) Kristina Salvador (sign) [signature]
Date Logged in ↓ By (print) Eileen Leung (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank; ~~temp taken with IR gun~~

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____

Rev 10, 11/11

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	190154
Basis:	as received	Received:	08/31/12

Field ID: MW-1@8FT
Type: SAMPLE
Lab ID: 239313-001
Sampled: 08/30/12
Analyzed: 09/05/12

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	62-134

Field ID: MW-1@13FT
Type: SAMPLE
Lab ID: 239313-002
Sampled: 08/30/12
Analyzed: 09/05/12

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	119	62-134

Field ID: MW-2@8FT
Type: SAMPLE
Lab ID: 239313-005
Sampled: 08/29/12
Analyzed: 09/05/12

Analyte	Result	RL
Gasoline C7-C12	25 Y	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	213 *	62-134

Field ID: MW-2@13FT
Type: SAMPLE
Lab ID: 239313-006
Sampled: 08/29/12
Analyzed: 09/06/12

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	128	62-134

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	190154
Basis:	as received	Received:	08/31/12

Field ID: MW-3@11FT
Type: SAMPLE
Lab ID: 239313-010
Sampled: 08/29/12
Analyzed: 09/06/12

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	122	62-134

Field ID: MW-3@15FT
Type: SAMPLE
Lab ID: 239313-011
Sampled: 08/29/12
Analyzed: 09/06/12

Analyte	Result	RL
Gasoline C7-C12	ND	0.99

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	130	62-134

Type: BLANK
Lab ID: QC654703
Analyzed: 09/05/12

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	62-134

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC654866	Batch#:	190154
Matrix:	Soil	Analyzed:	09/05/12
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9323	93	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	62-134

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	239353-001	Batch#:	190154
Matrix:	Soil	Sampled:	09/05/12
Units:	mg/Kg	Received:	09/05/12
Basis:	as received	Analyzed:	09/05/12

Type: MS Lab ID: QC654867

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.093	9.804	9.616	87	33-120

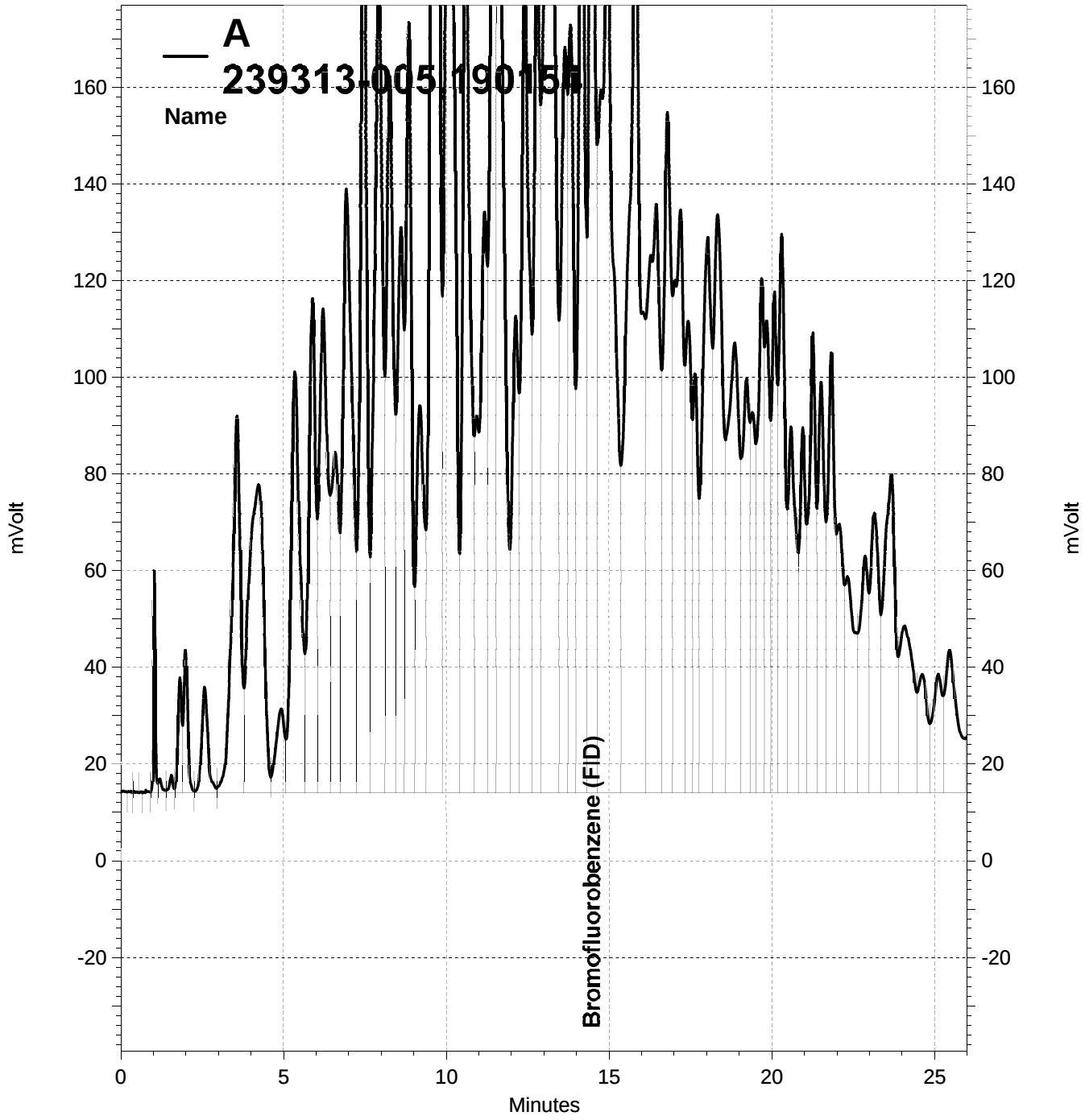
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	123	62-134

Type: MSD Lab ID: QC654868

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	10.43	93	33-120	6	53

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	125	62-134

RPD= Relative Percent Difference



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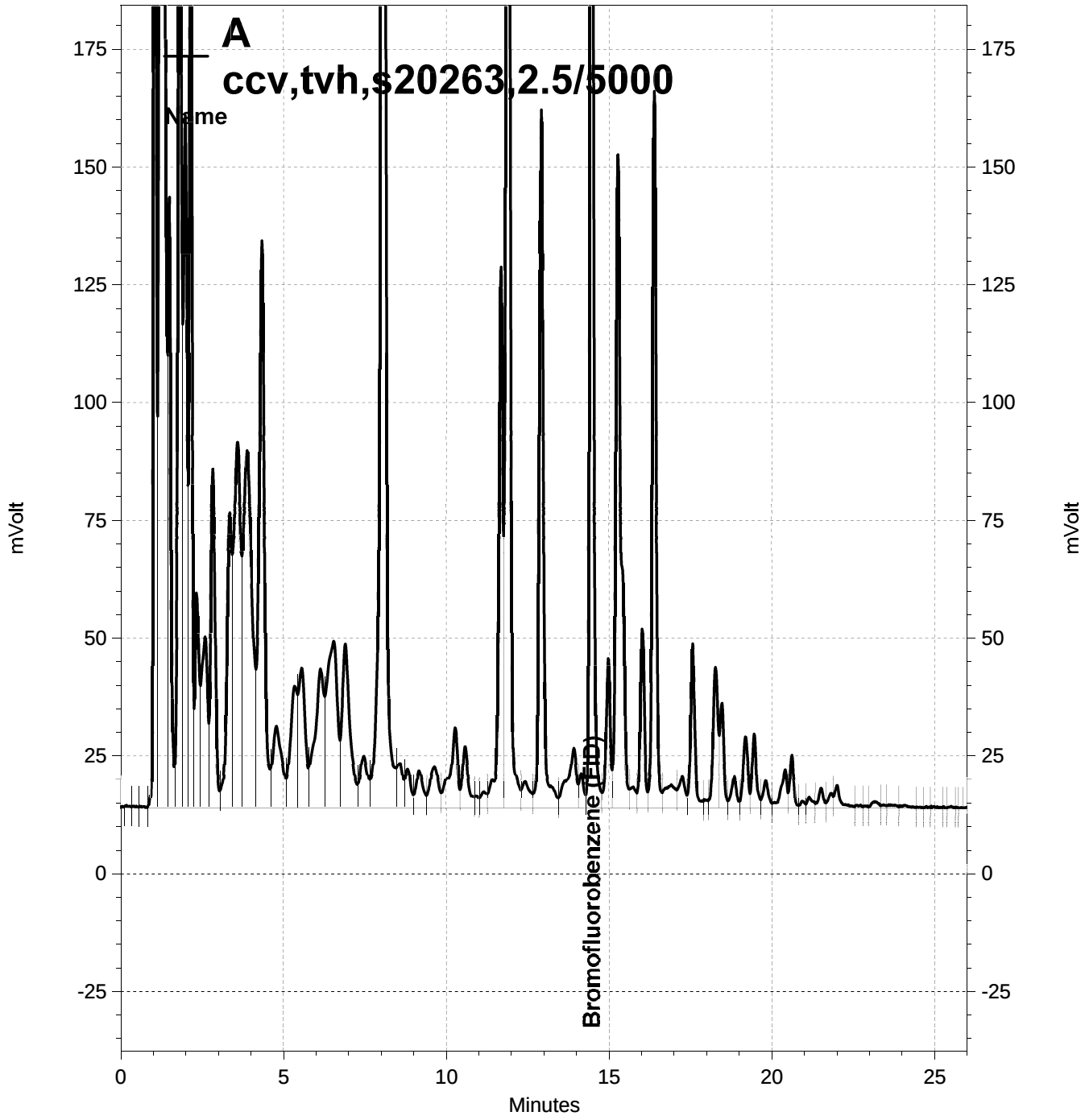

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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	SHAKER TABLE
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	190082
Units:	mg/Kg	Received:	08/31/12
Basis:	as received	Prepared:	09/03/12
Diln Fac:	1.000	Analyzed:	09/04/12

Field ID: MW-1@8FT
Type: SAMPLE
Lab ID: 239313-001
Sampled: 08/30/12
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	80	54-129

Field ID: MW-1@13FT
Type: SAMPLE
Lab ID: 239313-002
Sampled: 08/30/12
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	94	54-129

Field ID: MW-2@8FT
Type: SAMPLE
Lab ID: 239313-005
Sampled: 08/29/12
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	4.8 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	87	54-129

Field ID: MW-2@13FT
Type: SAMPLE
Lab ID: 239313-006
Sampled: 08/29/12
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	68	54-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	SHAKER TABLE
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	190082
Units:	mg/Kg	Received:	08/31/12
Basis:	as received	Prepared:	09/03/12
Diln Fac:	1.000	Analyzed:	09/04/12

Field ID: MW-3@11FT
Type: SAMPLE
Lab ID: 239313-010
Sampled: 08/29/12
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	15 Y	1.0
Motor Oil C24-C36	23	5.0

Surrogate	%REC	Limits
o-Terphenyl	88	54-129

Field ID: MW-3@15FT
Type: SAMPLE
Lab ID: 239313-011
Sampled: 08/29/12
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	82	54-129

Type: BLANK
Lab ID: QC654413
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	109	54-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	SHAKER TABLE
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC654414	Batch#:	190082
Matrix:	Soil	Prepared:	09/03/12
Units:	mg/Kg	Analyzed:	09/04/12

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.68	41.46	83	51-131

Surrogate	%REC	Limits
o-Terphenyl	89	54-129

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	SHAKER TABLE
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	190082
MSS Lab ID:	239287-001	Sampled:	08/30/12
Matrix:	Soil	Received:	08/30/12
Units:	mg/Kg	Prepared:	09/03/12
Basis:	as received	Analyzed:	09/04/12
Diln Fac:	1.000		

Type: MS Lab ID: QC654415

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	2.628	49.96	57.49	110	34-144

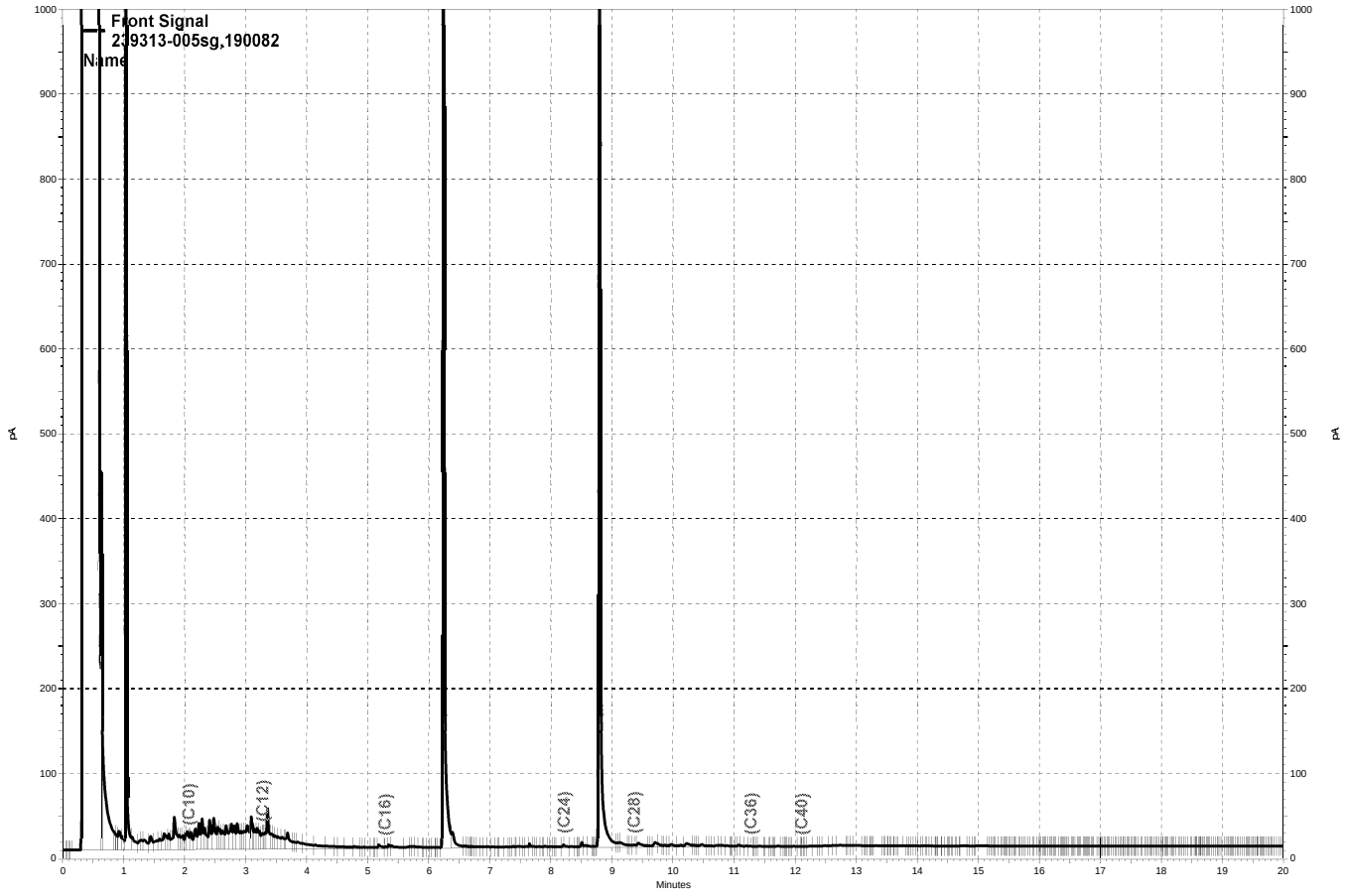
Surrogate	%REC	Limits
o-Terphenyl	101	54-129

Type: MSD Lab ID: QC654416

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.57	50.30	96	34-144	13	52

Surrogate	%REC	Limits
o-Terphenyl	83	54-129

RPD= Relative Percent Difference



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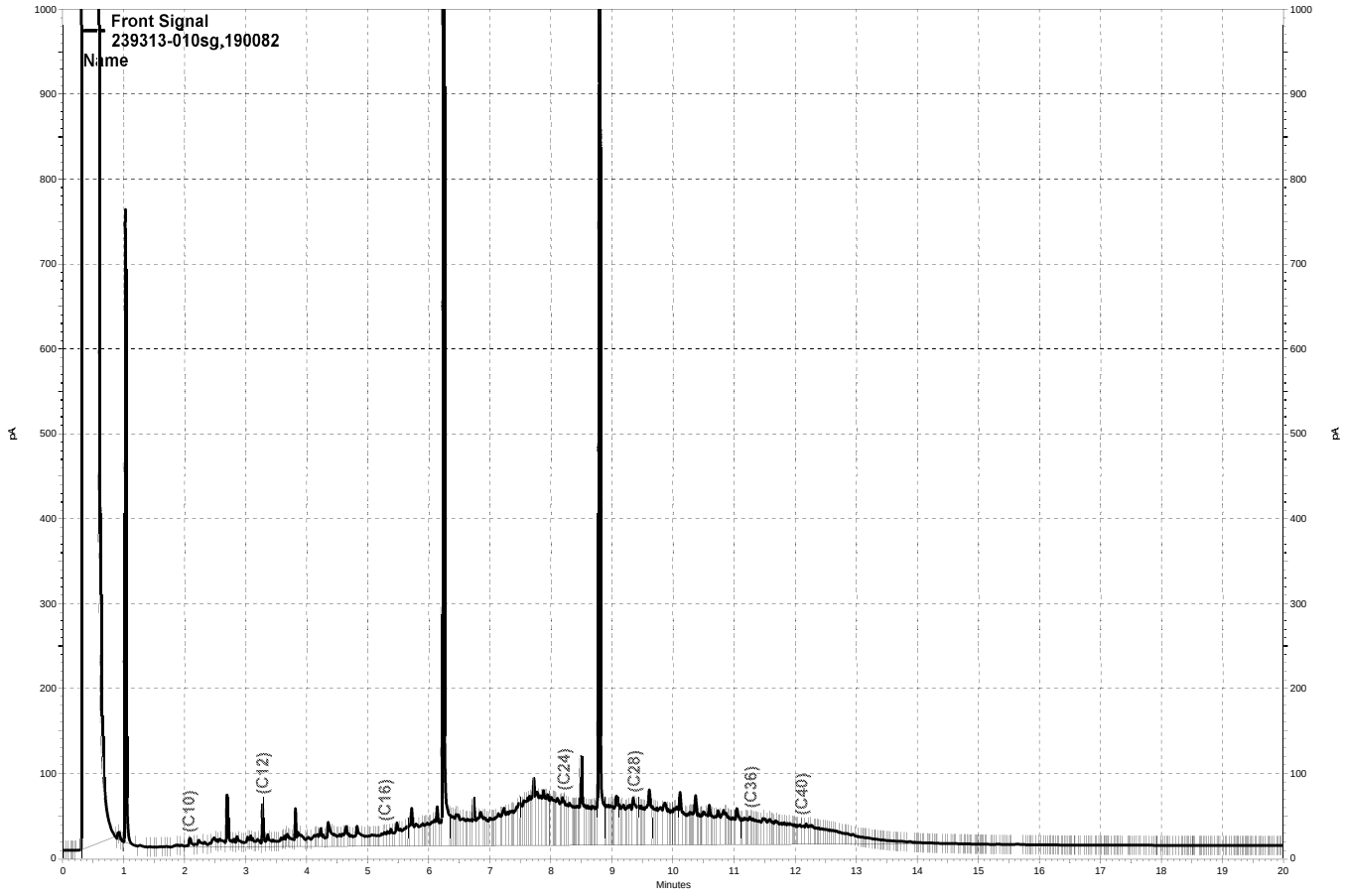

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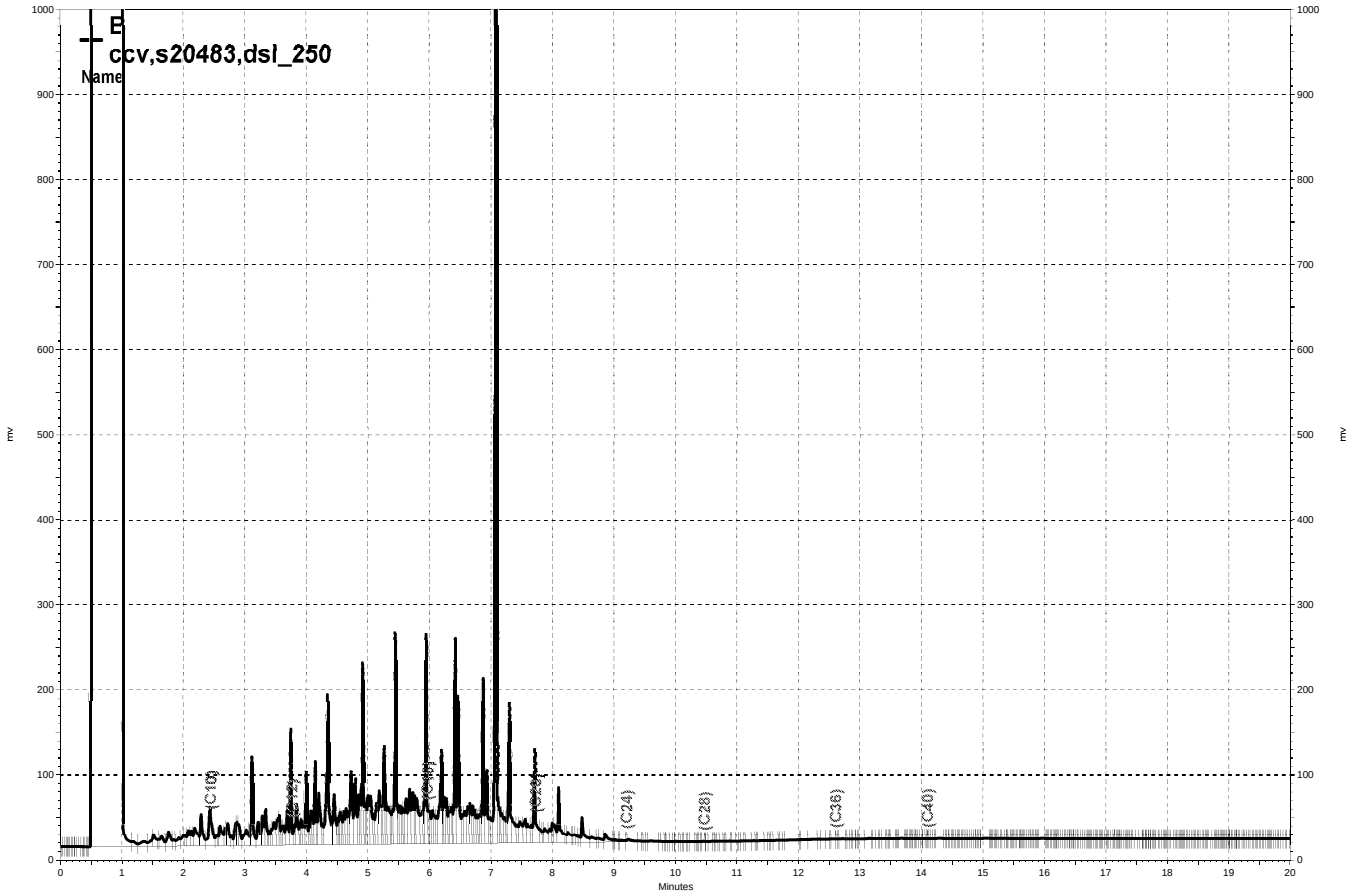

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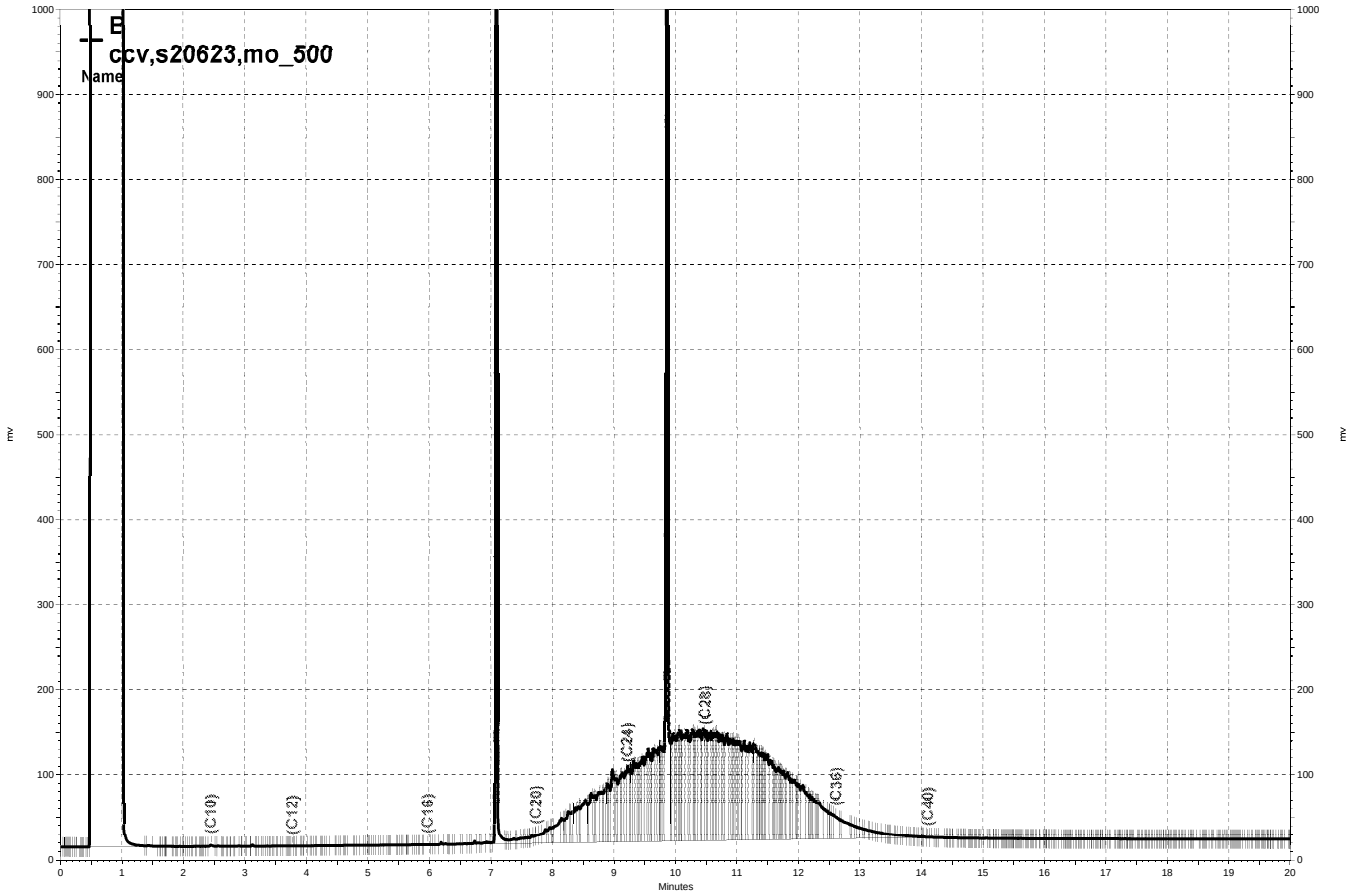

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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-1@8FT	Diln Fac:	0.9091
Lab ID:	239313-001	Batch#:	190102
Matrix:	Soil	Sampled:	08/30/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Freon 12	ND	9.1
Chloromethane	ND	9.1
Vinyl Chloride	ND	9.1
Bromomethane	ND	9.1
Chloroethane	ND	9.1
Trichlorofluoromethane	ND	4.5
Acetone	ND	18
Freon 113	ND	4.5
1,1-Dichloroethene	ND	4.5
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.5
MTBE	ND	4.5
trans-1,2-Dichloroethene	ND	4.5
Vinyl Acetate	ND	45
1,1-Dichloroethane	ND	4.5
2-Butanone	ND	9.1
cis-1,2-Dichloroethene	ND	4.5
2,2-Dichloropropane	ND	4.5
Chloroform	ND	4.5
Bromochloromethane	ND	4.5
1,1,1-Trichloroethane	ND	4.5
1,1-Dichloropropene	ND	4.5
Carbon Tetrachloride	ND	4.5
1,2-Dichloroethane	ND	4.5
Benzene	ND	4.5
Trichloroethene	ND	4.5
1,2-Dichloropropane	ND	4.5
Bromodichloromethane	ND	4.5
Dibromomethane	ND	4.5
4-Methyl-2-Pentanone	ND	9.1
cis-1,3-Dichloropropene	ND	4.5
Toluene	ND	4.5
trans-1,3-Dichloropropene	ND	4.5
1,1,2-Trichloroethane	ND	4.5
2-Hexanone	ND	9.1
1,3-Dichloropropane	ND	4.5
Tetrachloroethene	ND	4.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-1@8FT	Diln Fac:	0.9091
Lab ID:	239313-001	Batch#:	190102
Matrix:	Soil	Sampled:	08/30/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Dibromochloromethane	ND	4.5
1,2-Dibromoethane	ND	4.5
Chlorobenzene	ND	4.5
1,1,1,2-Tetrachloroethane	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5
Styrene	ND	4.5
Bromoform	ND	4.5
Isopropylbenzene	ND	4.5
1,1,2,2-Tetrachloroethane	ND	4.5
1,2,3-Trichloropropane	ND	4.5
Propylbenzene	ND	4.5
Bromobenzene	ND	4.5
1,3,5-Trimethylbenzene	ND	4.5
2-Chlorotoluene	ND	4.5
4-Chlorotoluene	ND	4.5
tert-Butylbenzene	ND	4.5
1,2,4-Trimethylbenzene	ND	4.5
sec-Butylbenzene	ND	4.5
para-Isopropyl Toluene	ND	4.5
1,3-Dichlorobenzene	ND	4.5
1,4-Dichlorobenzene	ND	4.5
n-Butylbenzene	ND	4.5
1,2-Dichlorobenzene	ND	4.5
1,2-Dibromo-3-Chloropropane	ND	4.5
1,2,4-Trichlorobenzene	ND	4.5
Hexachlorobutadiene	ND	4.5
Naphthalene	ND	4.5
1,2,3-Trichlorobenzene	ND	4.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-131
1,2-Dichloroethane-d4	112	75-141
Toluene-d8	104	80-120
Bromofluorobenzene	98	79-128

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-1@13FT	Diln Fac:	0.9653
Lab ID:	239313-002	Batch#:	190102
Matrix:	Soil	Sampled:	08/30/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Freon 12	ND	9.7
Chloromethane	ND	9.7
Vinyl Chloride	ND	9.7
Bromomethane	ND	9.7
Chloroethane	ND	9.7
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.7
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.7
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.7
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-1@13FT	Diln Fac:	0.9653
Lab ID:	239313-002	Batch#:	190102
Matrix:	Soil	Sampled:	08/30/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-131
1,2-Dichloroethane-d4	115	75-141
Toluene-d8	106	80-120
Bromofluorobenzene	95	79-128

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-2@8FT	Diln Fac:	0.9381
Lab ID:	239313-005	Batch#:	190102
Matrix:	Soil	Sampled:	08/29/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	24	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-2@8FT	Dil'n Fac:	0.9381
Lab ID:	239313-005	Batch#:	190102
Matrix:	Soil	Sampled:	08/29/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	9.1	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	5.0	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-131
1,2-Dichloroethane-d4	109	75-141
Toluene-d8	101	80-120
Bromofluorobenzene	166 *	79-128

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-2@13FT	Diln Fac:	0.9363
Lab ID:	239313-006	Batch#:	190102
Matrix:	Soil	Sampled:	08/29/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-2@13FT	Diln Fac:	0.9363
Lab ID:	239313-006	Batch#:	190102
Matrix:	Soil	Sampled:	08/29/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-131
1,2-Dichloroethane-d4	100	75-141
Toluene-d8	102	80-120
Bromofluorobenzene	98	79-128

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-3@11FT	Diln Fac:	0.9747
Lab ID:	239313-010	Batch#:	190102
Matrix:	Soil	Sampled:	08/29/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Freon 12	ND	9.7
Chloromethane	ND	9.7
Vinyl Chloride	ND	9.7
Bromomethane	ND	9.7
Chloroethane	ND	9.7
Trichlorofluoromethane	ND	4.9
Acetone	ND	19
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.7
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.7
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.7
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-3@11FT	Diln Fac:	0.9747
Lab ID:	239313-010	Batch#:	190102
Matrix:	Soil	Sampled:	08/29/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-131
1,2-Dichloroethane-d4	100	75-141
Toluene-d8	103	80-120
Bromofluorobenzene	98	79-128

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-3@15FT	Diln Fac:	0.9242
Lab ID:	239313-011	Batch#:	190102
Matrix:	Soil	Sampled:	08/29/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Freon 12	ND	9.2
Chloromethane	ND	9.2
Vinyl Chloride	ND	9.2
Bromomethane	ND	9.2
Chloroethane	ND	9.2
Trichlorofluoromethane	ND	4.6
Acetone	ND	18
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.2
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.2
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.2
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	MW-3@15FT	Diln Fac:	0.9242
Lab ID:	239313-011	Batch#:	190102
Matrix:	Soil	Sampled:	08/29/12
Units:	ug/Kg	Received:	08/31/12
Basis:	as received	Analyzed:	09/04/12

Analyte	Result	RL
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-131
1,2-Dichloroethane-d4	103	75-141
Toluene-d8	103	80-120
Bromofluorobenzene	97	79-128

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC654485	Batch#:	190102
Matrix:	Soil	Analyzed:	09/04/12
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC654485	Batch#:	190102
Matrix:	Soil	Analyzed:	09/04/12
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-131
1,2-Dichloroethane-d4	106	75-141
Toluene-d8	104	80-120
Bromofluorobenzene	98	79-128

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	239313	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC654486	Batch#:	190102
Matrix:	Soil	Analyzed:	09/04/12
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	18.71	94	70-129
Benzene	20.00	19.71	99	77-125
Trichloroethene	20.00	20.73	104	77-122
Toluene	20.00	22.16	111	78-120
Chlorobenzene	20.00	20.88	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-131
1,2-Dichloroethane-d4	106	75-141
Toluene-d8	102	80-120
Bromofluorobenzene	98	79-128