Andy Saberi
1045 Airport Boulevard
South San Francisco, CA 94080

RECEIVED
By Alameda County Environmental Health 1:25 pm, May 03, 2016

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: 1230 14th Street, Oakland, California
ACEH Case No. 433

Dear Mr. Wickham:

I, Mr. Andy Saberi, have retained Pangea Environmental Services, Inc. (Pangea) as an environmental consultant for the project referenced above. Pangea is submitting the attached report on my behalf.

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

If you have any questions, please call me at (650) 588-3088.

Sincerely,

Andy Saberi

April 12, 2016

VIA ALAMEDA COUNTY FTP SITE

Ms. Dilan Roe, Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Soil Excavation Report**
Former Shell Service Station
1230 14th Street
Oakland, California
Fuel Leak Case No. RO0000433

Dear Ms. Roe:

On behalf of property owner Andy Saberi, Pangea Environmental Services, Inc., (Pangea) has prepared this *Soil Excavation Report* for the subject site. This report describes soil excavation conducted in accordance with the approved July 28, 2015 *Workplan for Soil Excavation* (Workplan). The Workplan was approved in an Alameda County Environmental Health (ACEH) letter dated August 3, 2015.

Excavation conducted in November 2015 involved the offsite disposal of 684.6 tons of hydrocarbon-impacted soil. The excavation area was expanded with agency approval based on elevated benzene concentrations (up to 34 mg/kg) in encountered soil. To control cost, overburden soil was reused with agency approval, and an open cut excavation plan and slurry wall were used to avoid costly structural shoring.

Consistent with agency correspondence regarding excavation observations and data, this report presents recommendations for future work to help facilitate case closure. Pangea proposes soil borings adjacent north and northwest of the former USTs to address this data gap. If you have any questions or comments, please call me at (510) 435-8664.

Sincerely,
Pangea Environmental Services, Inc.

Bob Clark-Riddell, P.E.
Principal Engineer

Enclosures: *Soil Excavation Report*

cc: Andy Saberi (electronic copy)
Perry Pineda, Shell Oil Products US (electronic copy)
SWRCB Geotracker (electronic copy)

SOIL EXCAVATION REPORT

Former Shell Service Station
1230 14th Street
Oakland, California
Fuel Leak Case No. RO0000433

April 12, 2016

Prepared for:

Andy Saberi
1045 Airport Boulevard
South San Francisco, California 94080

Prepared by:

Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200
Oakland, California 94612

Written by:

REGISTERED PROFESSIONAL ENGINEER
ROBERT G. CLARK-RIDDELL
No. C 049629
Exp. SEPT 2016
CIVIL
STATE OF CALIFORNIA

Morgan Gillies
Project Manager

Bob Clark-Riddell, P.E.
Principal Engineer

INTRODUCTION

On behalf of property owner Andy Saberi, Pangea Environmental Services, Inc., (Pangea) has prepared this *Soil Excavation Report* for the subject site. This report describes soil excavation conducted in accordance with the approved July 28, 2015 *Workplan for Soil Excavation* (Workplan). The Workplan was approved in an Alameda County Environmental Health (ACEH) letter dated August 3, 2015 (Appendix A).

Excavation conducted in November 2015 involved the offsite disposal of 684.6 tons of hydrocarbon-impacted soil. The excavation area was expanded with agency approval based on elevated benzene concentrations (up to 34 mg/kg) in encountered soil. To control cost, overburden soil was reused with agency approval, and an open cut excavation plan and slurry wall were used to avoid costly structural shoring. Described below are the site background, soil excavation procedures, soil analytical results, proposed data gap investigation, and conclusions and recommendations.

Consistent with agency correspondence regarding excavation observations and data, this report presents recommendations for future work to help facilitate case closure. Pangea proposes soil borings adjacent north and northwest of the former USTs to address this data gap.

SITE BACKGROUND

The former Shell-branded service station is located at the northeast corner of 14th Street and Union Street in Oakland, California (Figure 1). Currently, an abandoned one-story station building and a pump-island canopy occupy the site, and much of the property is paved except for the former UST excavation. Land use in the surrounding area is currently residential to the north, south, and east, and is commercial/industrial to the west and southwest. The site topography is essentially flat.

Site History

According to prior reports, the current site building was constructed in 1958 and gas station operations at the site reportedly began in 1958 and ceased in 1993. Petroleum hydrocarbons were first discovered in site soil near the underground storage tanks (USTs) during the completion of three borings at the site in February 1991. Four gasoline USTs and one waste oil storage tank were removed from the site on August 24, 1993. The current property owner, Mr. Andy Saberi, purchased the property in the mid 1980s.

Previous Environmental Work

Previous environmental work has included site assessment, a sensitive receptor evaluation/well survey, risk evaluation, two rounds of feasibility testing (in 2000 and 2006), and several remedial actions. Remedial action included injection of oxygen releasing compound (ORC) into site wells in 1997, groundwater extraction (GWE) and dual-phase extraction (DPE) from 2002 to 2004 (performed with mobile equipment for approximately 11 separate days removing 6.0 lbs aqueous phase and 5.6 lbs vapor phase hydrocarbons), and hydrogen peroxide injection into site wells in 2003. Groundwater monitoring has been performed at the site since 1996.

In January 2008, Pangea submitted a *Draft Corrective Action Plan and Pilot Test Work Plan* (Draft CAP/Test Workplan) as required by Alameda County Environmental Health (ACEH). In June 2008, with ACEH approval, Pangea installed new remediation test wells, repaired damaged remediation wells, and destroyed one remediation well, as detailed in the *Well Installation and Destruction Report* dated October 6, 2008. In early July 2008, Pangea conducted the approved pilot testing using the newly installed remediation test wells to determine whether SVE or DPE would most effectively remove contaminants and capture hydrocarbon vapors resulting from air sparging. In the *SVE/DPE Pilot Test Report* dated October 7, 2008, Pangea recommended DPE/AS as the most effective remedial approach for the site. In a letter dated October 29, 2008, ACEH approved implementation of DPE/AS remediation at the site. On June 15, 2009, the California UST Cleanup Fund completed a 5-year review of the claim and recommended implementation of site remediation. DPE remediation system operation started in April 2011 and AS system operation commenced in October 2011.

To enhance DPE/AS remedial effectiveness, Pangea began pilot testing bio-organic catalyst (BOC) injection in select site wells. The pilot testing was performed as detailed in the *Workplan for Enhanced Site Remediation* dated March 6, 2012, and as approved by the ACEH in a letter dated April 17, 2012. In a letter dated September 10, 2012, ACEH rescinded their BOC pilot test approval due to concerns about offsite migration of site contaminants. On September 25, 2012, Pangea submitted the *Groundwater Monitoring and Remediation Report – First Half 2012,* which described Pangea's efforts to demonstrate control of any hydrocarbon migration initiated by desorption effects of BOC. Continued implementation of enhanced site remediation using BOC was approved by ACEH in a letter dated October 8, 2012. Site remediation was temporarily discontinued on February 15, 2013 to conduct post-remediation groundwater monitoring.

Soil and soil gas sampling was conducted at six locations to evaluate conditions after in situ remediation. As described in the *Soil and Soil Gas Sampling Report* dated April 7, 2015, soil boring SG-6 contained TPHg, TPHd, and naphthalene concentrations in *soil* exceeding applicable ESLs for commercial (and residential) site use. (The detected naphthalene concentration of 11 mg/Kg also exceeded the LTCP criteria for direct contact and outdoor air for residential site use). Additionally, *soil gas* contaminant concentrations in probe

SG-6 exceeded RWQCB ESLs for commercial and residential site use. Soil and soil gas results are summarized on Tables 1 and 2, respectively. This soil and soil gas information indicates that residual impact exceeds select agency screening levels at location SG-6. This impact could pose a risk to human health via direct exposure or potential vapor intrusion into future site buildings. To target residual hydrocarbon impact near SG-6 and the former southern dispenser, Pangea proposed limited soil excavation to target shallow soil impact.

SOIL EXCAVATION PROCEDURES

This section describes an excavation overview, excavation preparation, excavation activities, and soil disposal. Pangea contracted Sustainable Technologies (ST) of Alameda, California to perform the site excavation. Belshire Environmental Services of Forrest Hills, California was contracted to transport and dispose of impacted soil. Pangea observed the excavation, performed soil compliance sampling, and assisted with offsite soil disposal.

Excavation Overview

The excavation extent, delineation sampling locations, and analytical data are shown on Figures 2, 3 and 4. Excavation was performed to remove secondary source area hydrocarbons and help facilitate case closure. Site remediation included the excavation and offsite disposal of 684.6 tons of hydrocarbon-impacted soil in November 2015. The excavation initially targeted elevated soil impact and soil gas impact detected in boring/soil gas probe SG-6 under the southern dispenser island. Based on laboratory data, the excavation was expanded per agency direction (Appendix A) to target elevated soil impact under the northern dispenser island where up to 34 mg/kg benzene was found in site soil. The excavation involved the offsite disposal of 684.6 tons of hydrocarbon-impacted soil. Elevated hydrocarbon impact observed during site excavation near former remediation wells suggests that the site's fine sand soil impeded the effectiveness of prior insitu remedial techniques.

Excavation commenced on November 11, 2015. Additional excavation was performed on November 12, 16 through 21, 23 and 25, 2015. Some additional effort was required to complete the expanded excavation immediately prior to forecast rain, helping avoid additional costs and sediment run-off associated with wet weather excavation.

For cost control purposes, the excavation goal was to remove significant hydrocarbon source material without using costly structural shoring techniques and without significant 'chasing' of hydrocarbon impact beyond the initial planned excavation extent. Pangea employed several techniques to help control excavation cost. Initial soil sampling in advance of excavation allowed soil profiling with appropriate landfills and direct loading of soil for offhaul, as appropriate. Additional soil exploration was conducted by the excavation

contractor to help guide expansion of the excavation prior to soil removal. Shallow overburden with limited hydrocarbon impact was reused with agency approval. And an open cut excavation plan was used to avoid costly structural shoring. A slurry wall was successfully used to provide shoring along the adjacent street to avoid more costly shoring techniques.

The initial planned excavation extent is shown on Figure 2. Excavation delineation sampling locations are shown on Figure 3. The excavation was expanded to the north, south and east based on elevated laboratory analytical results detected in site soil. The completed excavation extent and depth is shown on Figure 4. The final excavation depth was approximately 15 ft bgs. Photographs of the excavation activities are included in Appendix C.

The approved Excavation Workplan referenced the following RWQCB Environmental Screening Levels (ESLs) for possible additional soil excavation: 100 mg/kg TPHg, 100 mg/kg TPHd, and 0.044 mg/kg benzene, and 1.2 mg/kg naphthalene. Pangea subsequently proposed modified cleanup goals based on RWQCB ESLs protective of human health (including 770 mg/kg TPHg and 0.74 mg/kg benzene). Mr. Wickham of ACEH approved modified cleanup goals in an email dated November 16, 2015 (Appendix A).

Excavation Preparation

Permitting: Pangea obtained approval from the City of Oakland on October 26, 2015 following permit application revisions and several meetings. The City required engineering drawings from a structural engineer, a truck traffic plan, a storm water pollution prevention plan and a soil management plan. Permit information and open cut excavation plan drawings from the structural engineer are included in Appendix B.

Line Locating and Security: Prior to site excavation, the excavation contractor marked the site for underground service alert (USA) and used an underground line locator to clear the planned excavation area. The area was previously secured by a chain-link fence with a combination lock.

Site Safety Plan and Air Monitoring: A site safety plan was prepared to protect human health and minimize nuisance to nearby residences/businesses. The air monitoring program involved monitoring of hydrocarbon concentrations in air and a modified construction schedule to mitigate hydrocarbon vapor and dust during windy and/or warmer periods.

Soil Profiling for Direct Loading: To provide cost savings for soil handling and disposal, Pangea profiled soil for direct loading and disposal rather than more costly soil stockpiling, sampling, and subsequent loading later. Direct soil loading also helped minimize dust and odor concerns given the close proximity to the surrounding residential neighborhood. The initial soil profiling was conducted using prior data from SG-6-3 and SG-6-6 soil samples, receiving landfill acceptance on October 22, 2015 (before excavation start). During excavation activities, contaminant concentrations in soil higher than the initial profiling samples were

encountered and additional laboratory analyses were required for profiling with the landfill. Pangea used excavation delineation sample results during excavation expansion for the additional soil profiling effort.

Canopy Removal: To facilitate excavation around the dispenser island, Pangea coordinated the removal of the former canopy and concrete islands. The permit for canopy removal is included in Appendix B. Sustainable Technologies of Alameda, CA conducted the canopy demolition between August 26 and September 2, 2015.

Grading and Erosion Control: ST used grading and erosion control best management practices (BMP) described in the Workplan. ST installed straw wattles around the site and set up silt filters in nearby storm drains. During excavation activities stockpiled soil was covered with plastic when not in use. In addition to the stormwater protections described in the grading permit, on November 19, 2015 the City inspector requested rumble strips to remove soil from truck tires before they leave the site and use of a 'wet' street sweeper to clean the street/site approach after each truck. ST implemented these additional soil control measures beginning November 20, 2015.

Excavation Activities

Excavation field activities were performed primarily between November 11 and 25, 2015. Final site restoration was completed in early December 2015 prior to significant precipitation (0.59") on December 13, 2015.

Initial Excavation, Initial Delineation Sampling, and Slurry Wall Installation: On November 11, 2015, excavation commenced with equipment delivery and initial storm water protection set up. To evaluate slope stability and the extent of contamination, limited exploratory excavation was conducted near soil gas probe SG-6. On November 11 and 12, ST excavated two perpendicular trenches centered on soil gas probe SG-6 to help define the lateral and vertical extent of contamination. Fourteen soil samples were collected on November 11 and 12, 2015 to help determine the extent of the excavation to the north, south and west. Exploratory delineation sampling locations are shown on Figure 3. The exploratory excavation was completed to a depth of approximately 17 ft below grade surface (bgs), and no soil sloughing was observed within the excavation sidewalls. Based on the observed soil stability, excavation was conducted without structural shoring to control cost. Consistent with the excavation permit, controlled density fill (CDF) was used along the southern boundary of the excavation to support the excavation wall and safeguard the integrity of the roadway (Fourteenth Street). The remainder of the excavation was performed with an open cut shoring plan.

Excavation Expansion Authorization: As approved by ACEH email dated November 16, 2015 (Appendix A), Pangea expanded the excavation based on analytical results from excavation delineation soil sampling.

Soil Compliance and Delineation Sampling Procedures: Pangea Project Manager Morgan Gillies conducted soil compliance sampling on the following dates: November 11, 12, 17 and 25, 2015. To evaluate removal progress, soil compliance samples were collected from the excavation sidewalls and floor in accordance with the approved plan. For sidewall sampling, Pangea collected most soil samples between 9 and 15 ft depth along the sidewall corresponding to the depths of elevated contaminant concentrations detected in nearby soil samples (Figure 4). Pangea also collected shallow soil samples to demonstrate that shallow soil could be reused onsite to help control cost. Soil samples were collected in new stainless steel soil tubes, and sealed on each end with Teflon tape and end caps. Soil designated for sampling was raised to the surface using the excavator bucket or clean hand auger, where the top few inches were removed and a new soil tube was hammered into the relatively undisturbed soil. Compliance sample locations are shown on Figure 4. Sampling was conducted in accordance with Pangea's *Standard Operating Procedures* presented in Appendix D. Analytical results from the compliance sampling are summarized on Table 1.

Air Monitoring: The excavation contractor performed air monitoring during excavation activities as shown in the air monitoring report in Appendix D.

Soil Reuse Authorization: In an email dated November 12, 2015, Mr. Wickham of ACEH approved reuse of shallow site soil and referenced the San Francisco Bay Region RWQCB's Draft Technical Guidance titled *Characterization and Reuse of Petroleum Hydrocarbon Impacted Soil as Inert Waste* (PHIS) dated October 20, 2006. Pangea estimates 105 cubic yards of shallow site soil from approximately 2 to 5 ft bgs was reused onsite. Based on PHIS guidance specifying one soil analysis for every 25 cubic yards of reused soil, analytical results from the following five soil samples were used to profile shallow soil for reuse: E-2, W-4, SE-3, SW-3 and SG-6-3. As shown on Table 1, no TPHg or BTEX concentrations were detected in these five soil samples used for soil reuse profiling. Soil reuse procedures are described below in the backfill section.

Well Destruction: As approved by the ACEH email of November 12, 2015, Pangea coordinated destruction of site monitoring wells within the expanded excavation area and also coordinated destruction of other perimeter site wells to defray driller mobilization costs. The well destruction permits are included in Appendix B. Wells AS-3, AS-5, DP-2, DP-3, DP-4, MW-1, MW-3 and VW/MW-4 were destroyed by pressure grouting. A casing extension was placed over each well to allow collection of displaced groundwater and Portland cement was placed into the well through a tremie pipe positioned at the bottom of the well. After the well was filled with cement, a well cap and a water-tight fitting was attached to the top of the well casing. A minimum of 25 pounds per square inch (psi) of pressure was applied and maintained for five minutes. Then the well box was removed and neat cement was poured into the borehole to a depth of approximately 1 ft below grade surface (bgs) and the surface was restored with soil.

Expanded Excavation: Excavation to the south was limited by the adjacent sidewalk/roadway and the extent of contamination was delineated by sample location 14S. On November 17, 2015, the trench adjacent

to Fourteenth Street was excavated to a depth of approximately 15 ft and backfilled with CDF to support the excavation and safeguard the structural integrity of the sidewalk/roadway. To support the CDF backfill and allow thorough curing, soil adjacent the trench near Fourteenth Street remained in place until the final days of excavation.

Additionally on November 17, 2015, Pangea collected soil samples from the north (N, NN and NNN), east (E), southeast (SE) and southwest (SW) portions of the excavation to delineate the extent of contamination in those directions. Samples were collected from multiple locations in the northern direction based on significant hydrocarbon odors and soil staining observed between approximately 10 and 15 ft depth in this direction. As, shown on Figure 4, based on laboratory analytical results the excavation was extended to the north to remove hydrocarbon impacted soil around sample location 12N and N.

On November 19, 2015, a City of Oakland building inspector issued a stop work/correction notice for the site regarding issues related to erosion control, traffic control and providing the City with periodic progress updates. Pangea and ST quickly scheduled a meeting with the City of Oakland Engineer that same day to address the issues and the stop work notice was lifted. On November 19, 21, 23 and 25 the remaining contaminated soil was excavated and loaded into trucks for transport to Recology Hay Road Landfill in Vacaville.

Final Excavation Extent: The final excavation extent and depth is illustrated on Figure 4. Soil was excavated to a depth of approximately 15 feet bgs. The northern excavation boundary was approximately 20 feet from the site building.

Excavation Backfilling: The trench adjacent to Fourteenth Street was backfilled immediately after excavation with controlled density fill (CDF) to provide shoring adjacent the sidewalk and property boundary. Due to odor and potential stormwater runoff concerns (and storm water BMPs), additional backfilling commenced soon after completion of final excavation and in advance of forecasted significant precipitation. Backfilling was completed primarily on November 23, 24 and 25. The excavation cavity was first backfilled with crushed rock provided by Argent Materials of Oakland, California. A letter from Argent Materials stating that their backfill material was contaminant free is included in Appendix G. The crushed rock was graded and compacted from approximately 15 to 11 feet bgs. The crushed rock was compacted in one or more lifts and covered with geotextile fabric. From approximately 11 to 5 ft bgs, the excavation cavity was backfilled with Class II aggregate base (A/B) material mixed with reused overburden site soil. The A/B material and reused soil mix was compacted in approximate 12-inch lifts, both using a sheep's foot roller to achieve an estimated 95% or greater compaction. The top five feet of the site was backfilled with Class II A/B material only. Supplier documents indicated the following weight or volume of backfill materials for this site: 134.59 tons crushed rock, 580.85 tons Class II A/B, and 27 cubic yards of CDF slurry (along southern boundary). Pangea estimates that approximately 105 cubic yards of shallow site soil originally

present between approximately 2 and 5 ft bgs was reused onsite. As shown on Table 1, no TPHg or BTEX concentrations were detected in the soil samples used for soil reuse profiling (E-2, W-4, SE-3, SW-3 and SG-6-3). The permeable nature of the crushed rock will allow for additional natural attenuation and insitu biodegradation of residual hydrocarbons. The excavation backfill material was graded to match the existing surface elevation.

Groundwater Observations: During the excavation, groundwater was not encountered in the excavation cavity that extended to approximately 15 feet bgs.

Surface Restoration: Upon completion of backfill compaction, Pangea coordinated covering of the excavation area with plastic to comply with City of Oakland requirements. Repaving was planned for the excavation area, but is now on hold pending potential future additional soil excavation.

Soil Disposal

According to waste manifests, a total of 684.6 tons of non-hazardous, petroleum-impacted soil was generated during excavation activities and transported for disposal by various trucking companies to Recology Hay Road Landfill in Vacaville, California. Copies of all waste manifests are located in Appendix F.

SOIL ANALYTICAL RESULTS

Soil analytical results from excavation compliance sampling are summarized in Table 1. Soil compliance and delineation samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015B, and benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8021B. Samples containing more than 5 mg/kg benzene were analyzed by toxicity characteristic leaching procedure (TCLP) using extraction method SW1311. The laboratory analytical reports are presented in Appendix E.

Soil excavation was directed by ACEH to target secondary source material above applicable screening levels for *soil* and *soil gas*. Table 1 compares *soil* analytical results to the agency-approved ESLs for the proposed excavation (and general ESLs), and to media-specific criteria of the *Low Threat UST Closure Policy* (LTCP) for direct contact and outdoor air exposure. Table 2 compares *soil gas* analytical data from before excavation to ESLs.

Soil analytical results from compliance sampling are summarized on Figure 4. The maximum TPHg and benzene concentrations detected during compliance and delineation sampling were 7,800 mg/kg TPHg (sample S-9.5) and 34 mg/kg benzene (sample N-13). An elevated benzene concentration of 2.1 mg/kg was detected in sample 12N-13. These maximum concentration areas were excavated. The maximum TPHg and benzene concentrations in soil following excavation were 410 mg/kg TPHg (northern excavation extent at 13

ft bgs) and 0.36 mg/kg benzene (near dispensers at 15 ft bgs), which are below the agency-approved ESLs and LTCP criteria. Based on the prior percentage of naphthalene to TPHg in analyzed samples, the estimated maximum naphthalene concentration in residual soil is 2.4 mg/Kg (sample NN at 13 ft bgs).

PROPOSED DATA GAP INVESTIGATION

Based on soil observations and soil analytical data during soil excavation, Pangea and ACEH discussed possible sources for the hydrocarbons detected under the southern and northern dispenser, and along the western and southern boundary of the former UST complex. A release from the dispensers or USTs could be the source of discovered hydrocarbons. If the hydrocarbons source was a release from the former USTs, Pangea considers the area north and northwest of the former USTs as a potential data gap.

Consistent with discussions with Mr. Wickham and the December 7, 2015 email (Appendix A), Pangea proposes soil borings adjacent to and within the site building to address this data gap. The proposed boring locations are shown on Figure 5. The proposed scope of work to accomplish the investigation objectives is detailed below.

Task 1 - Pre-Field Activities

Prior to initiating field activities, Pangea will conduct the following tasks:

- Pre-mark the boring locations with white paint, notify Underground Service Alert (USA) of the drilling and sampling activities at least 72 hours before work begins, and conduct private line locating as merited;
- Prepare a site-specific health and safety plan to educate personnel and minimize their exposure to potential hazards related to site activities; and
- Coordinate with drilling and laboratory subcontractors and other involved parties.

Task 2 – Soil Borings

To evaluate hydrocarbon concentrations in soil north and northwest of the former USTs, Pangea proposes to advance three soil borings and one contingent step-out boring. As shown on Figure 5, Pangea proposes to advance two borings inside the auto repair bays on the eastern side of the building and one boring in front of the western (office and storage) side of the building. A step-out boring is proposed towards the back of the building based on results from the two eastern borings. Pangea proposes advancing the borings to approximately 15 ft bgs for soil samples to help evaluate direct contact and outdoor air criteria of the LTCP. At each boring location, soil samples will be collected approximately every 4 ft below grade surface (bgs) to

assess soil conditions north and northwest of the former USTs. Additional soil samples may be collected if field signs of contamination are observed and/or at lithologic changes. Grab groundwater sampling will be conducted from each boring location.

Pangea will conduct site investigation using hand auger and/or a direct-push sampling rig. If a direct-push sampling rig is used, all borings will first be hand augered to five feet to avoid damaging subsurface utilities. The direct-push sampling rig will be equipped with a hydraulic hammer and steel drive rods to advance the borings to the proposed total depth. With hydraulic-push drilling, continuous soil collection is conducted using acetate liners and samples are typically collected on four foot intervals. Soil samples will be obtained by cutting 6-inch subsections, trimming the excess soil from the ends, and capping the ends with Teflon® tape and plastic caps. If hand auger techniques are used, soil samples will be collected within new brass or stainless steel liners driven into undisturbed soil with a slide-hammer. The soil will be classified according to the Unified Soil Classification System (USCS) and screened for field indications of petroleum hydrocarbons using visual and olfactory observations.

All site investigation activities will be performed under the supervision of a California Registered Civil Professional Engineer (P.E.). Additional soil and assessment procedures are presented in our Standard Operating Procedures (SOPs) in Appendix D.

Select soil samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tertiary butyl ether (MTBE) by EPA Method 8015Cm/8021B; and/or naphthalene by EPA Method 8260B.

CONCLUSIONS AND RECOMMENDATIONS

Based on the above information, Pangea offers the following conclusions and recommendations:

- The excavation and offsite disposal of 684.6 tons of hydrocarbon-impacted soil has provided significant additional removal of secondary source material beneath the former dispensers and west of the former USTs. All soil impact identified above agency-approved ESLs and LTCP criteria during the soil excavation was removed. The elevated hydrocarbon impact close to former remediation wells suggests the fine sand soil impeded the effectiveness of prior insitu remedial techniques. By avoiding costly shoring techniques and minimizing expansion of the planned excavation, soil excavation was performed in a cost effective manner.

- Based on agency discussion about the unknown source of the hydrocarbons found west of the former USTs, Pangea and ACEH considers the area north and northwest of the former USTs as a potential data

gap. To address this data gap, Pangea has proposed soil borings as described above. Additional naphthalene data can be obtained during this data gap investigation, if requested.

- Pangea also recommends performing limited groundwater monitoring of site groundwater wells to evaluate post-excavation site conditions. The most recent groundwater monitoring event was performed in May and July 2014.

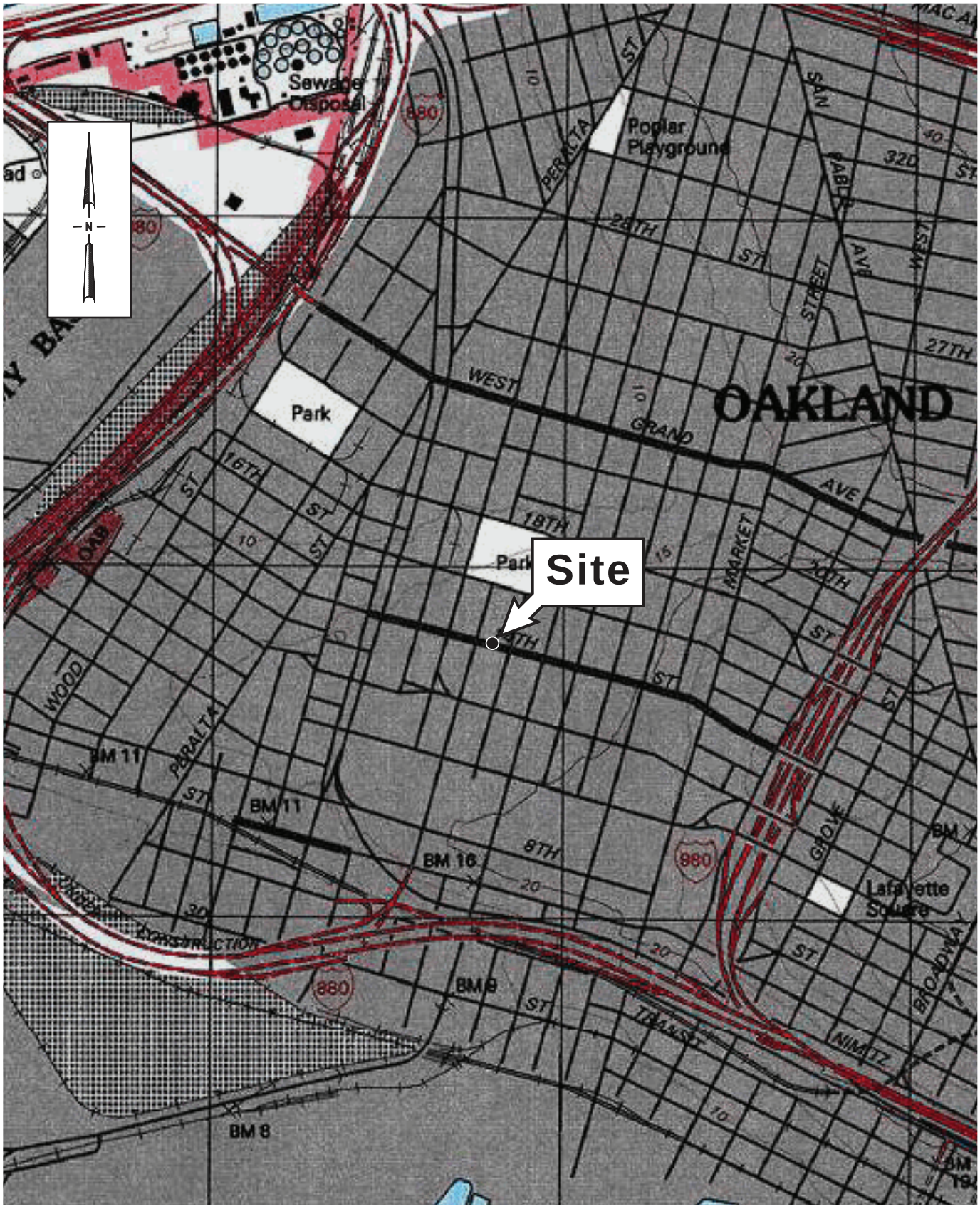
- Following the data gap investigation and post-excavation groundwater monitoring, Pangea recommends evaluating this case for closure in accordance with LTCP and other relevant regulatory policy.

ATTACHMENTS

Figure 1 – Vicinity Map
Figure 2 – Initial Planned Excavation Extent
Figure 3 – Exploratory Delineation Sampling
Figure 4 – Excavation Extent and Analytical Data, November 2015
Figure 5 – Proposed Boring Locations

Table 1 – Soil Analytical Data
Table 2 – Soil Gas Analytical Data

Appendix A – Regulatory Correspondence
Appendix B – Permits & Open Cut Excavation Plan Drawings
Appendix C – Photographs
Appendix D – Air Monitoring Report & Standard Operating Procedures
Appendix E – Laboratory Analytical Reports
Appendix F – Waste Disposal Manifests
Appendix G – Argent Materials Letter



0 1/8 1/4 1/2 1

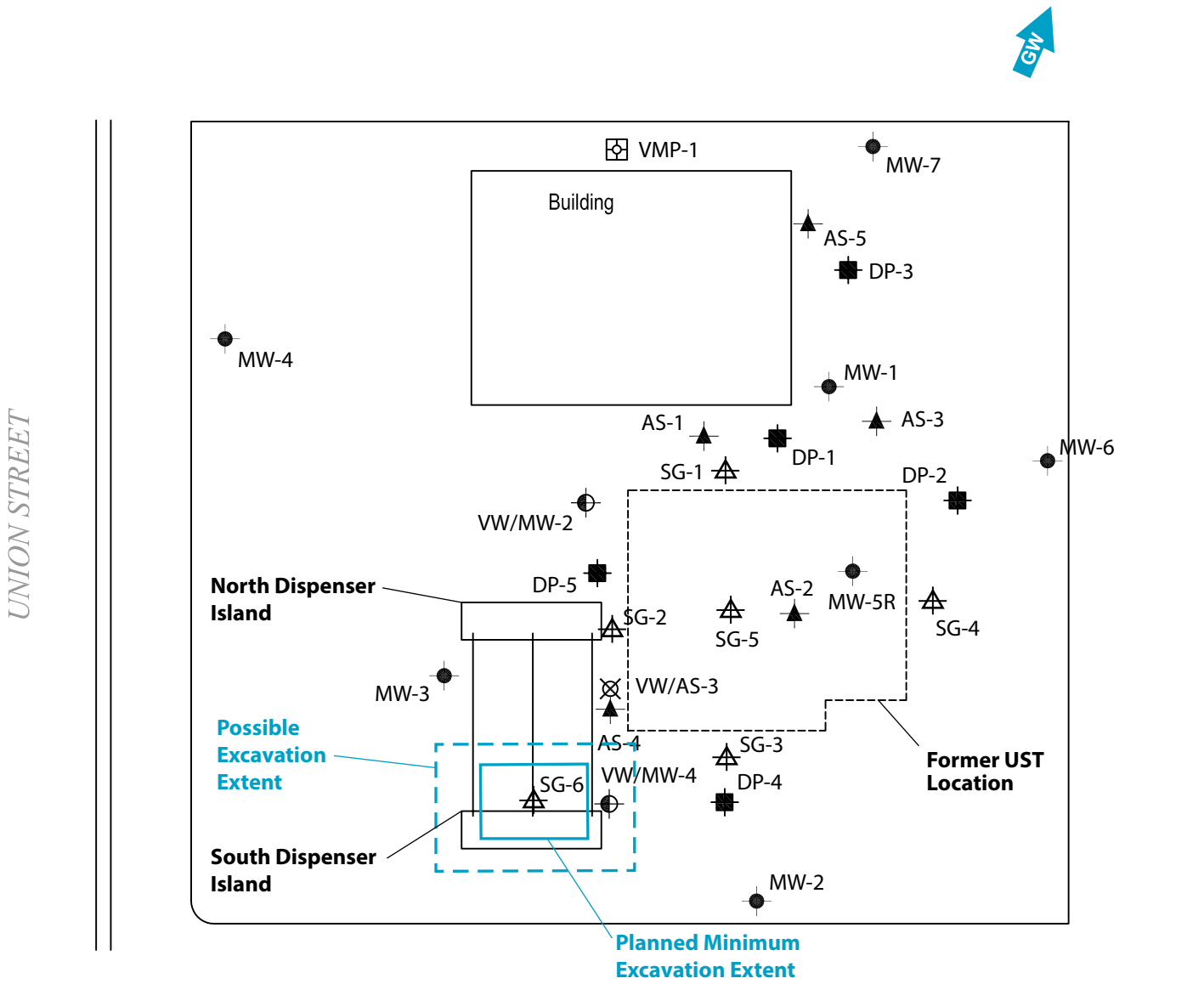
SCALE : 1" = 1/4 MILE

Figure 1

Former Shell Service Station
1230 14th Street
Oakland, California

PANGEA

Vicinity Map



EXPLANATION

SG-5	Soil gas probe/Soil Boring (2014)
DP-1	Dual phase extraction (DPE) well
AS-1	Air sparge well (AS)
VMP-1	Vapor monitoring point
MW-1	Groundwater monitoring well
VW/MW-4	Combination soil vapor extraction well/monitoring well
VW/AS-3	Destroyed Well
GW	Estimated groundwater flow direction

14TH STREET

N

0 20 40

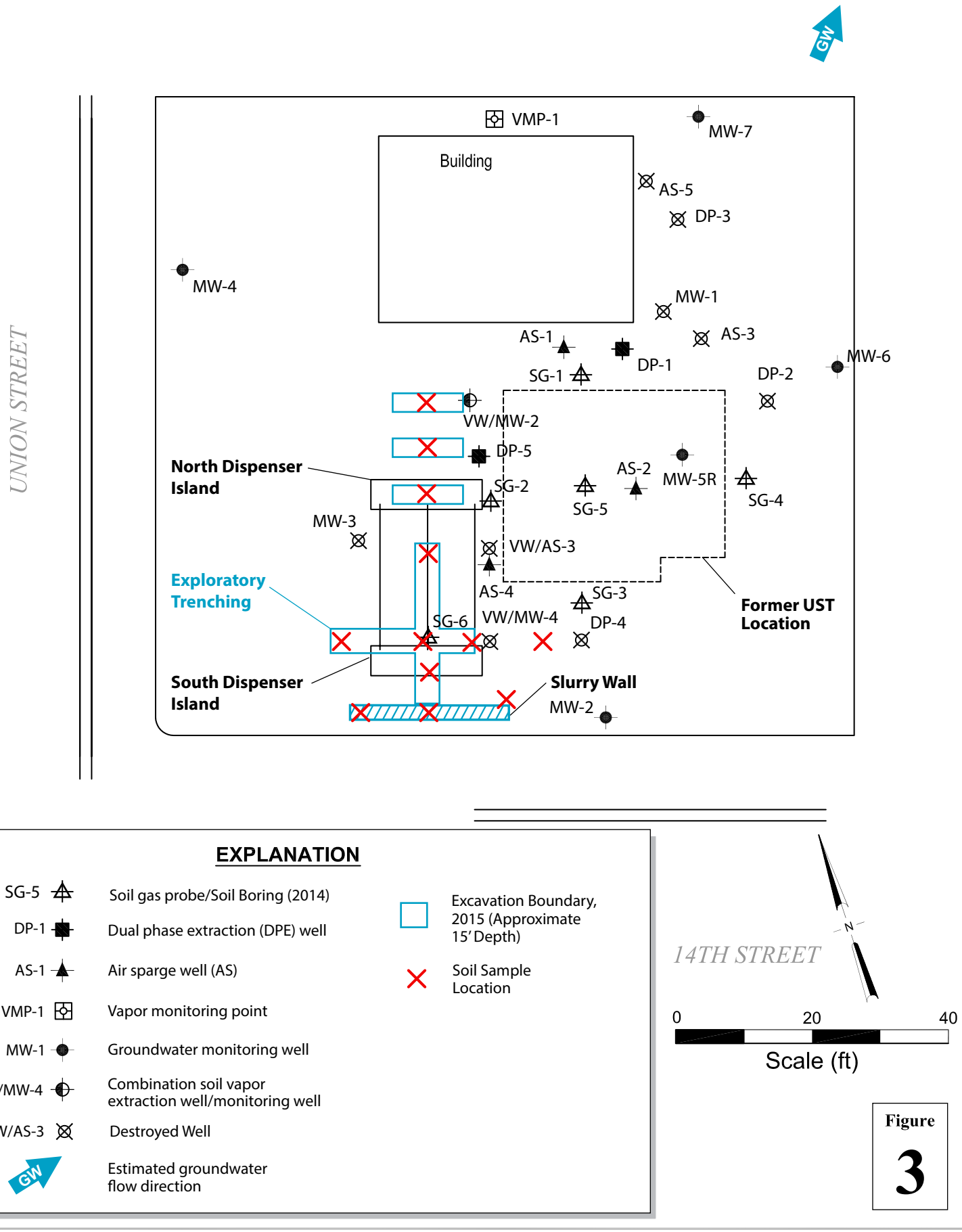
Scale (ft)

Figure 2

Former Shell Service Station
1230 14th Street
Oakland, California

PANGEA

Planned Excavation Extent



EXPLANATION

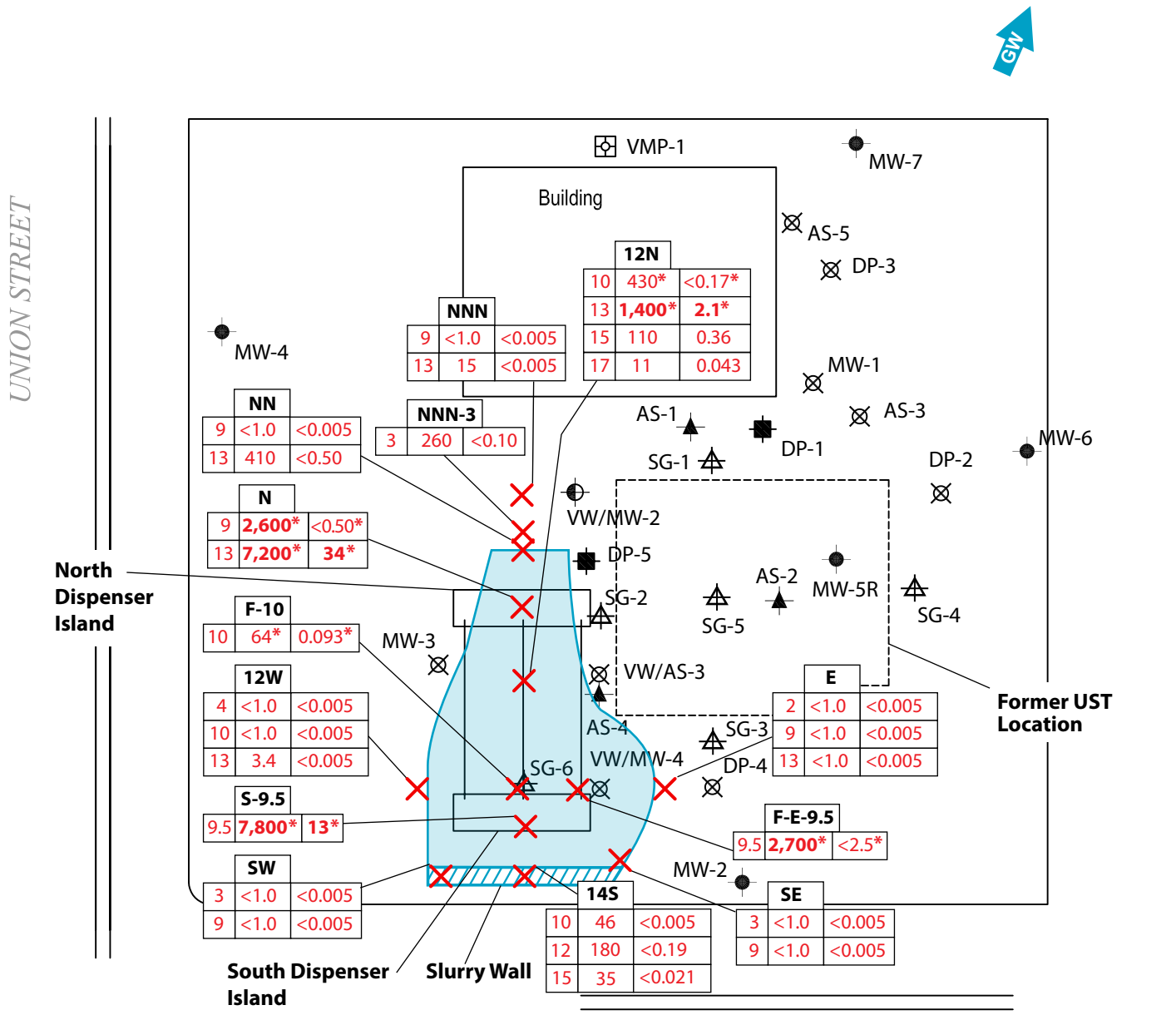
- SG-5 — Soil gas probe/Soil Boring (2014)
- DP-1 — Dual phase extraction (DPE) well
- AS-1 — Air sparge well (AS)
- VMP-1 — Vapor monitoring point
- MW-1 — Groundwater monitoring well
- VW/MW-4 — Combination soil vapor extraction well/monitoring well
- VW/AS-3 — Destroyed Well
- GW — Estimated groundwater flow direction
- Excavation Boundary, 2015 (Approximate 15' Depth)
- Soil Sample Location

Figure 3

Former Shell Service Station
1230 14th Street
Oakland, California

PANGEA

Exploratory Delineation Sampling
November 11, 12 and 17, 2015



EXPLANATION

- SG-5 — Soil gas probe/Soil Boring (2014)
- DP-1 — Dual phase extraction (DPE) well
- AS-1 — Air sparge well (AS)
- VMP-1 — Vapor monitoring point
- MW-1 — Groundwater monitoring well
- VW/MW-4 — Combination soil vapor extraction well/monitoring well
- VW/AS-3 — Destroyed Well
- GW — Estimated groundwater flow direction

Sample ID
Depth (ft) | TPHg | Benzene mg/Kg

7,200 Hydrocarbon Concentration (mg/Kg)

* Excavated Soil Sample

Bold concentrations are above RWQCB Environmental Screening Levels protective of human health (770 mg/Kg TPHg, 0.74 mg/Kg benzene), Agency Directed Standard.

- Soil Sample Location
- Excavation Boundary, 2015 (Approximate 15' Depth)

14TH STREET

N

0 20 40

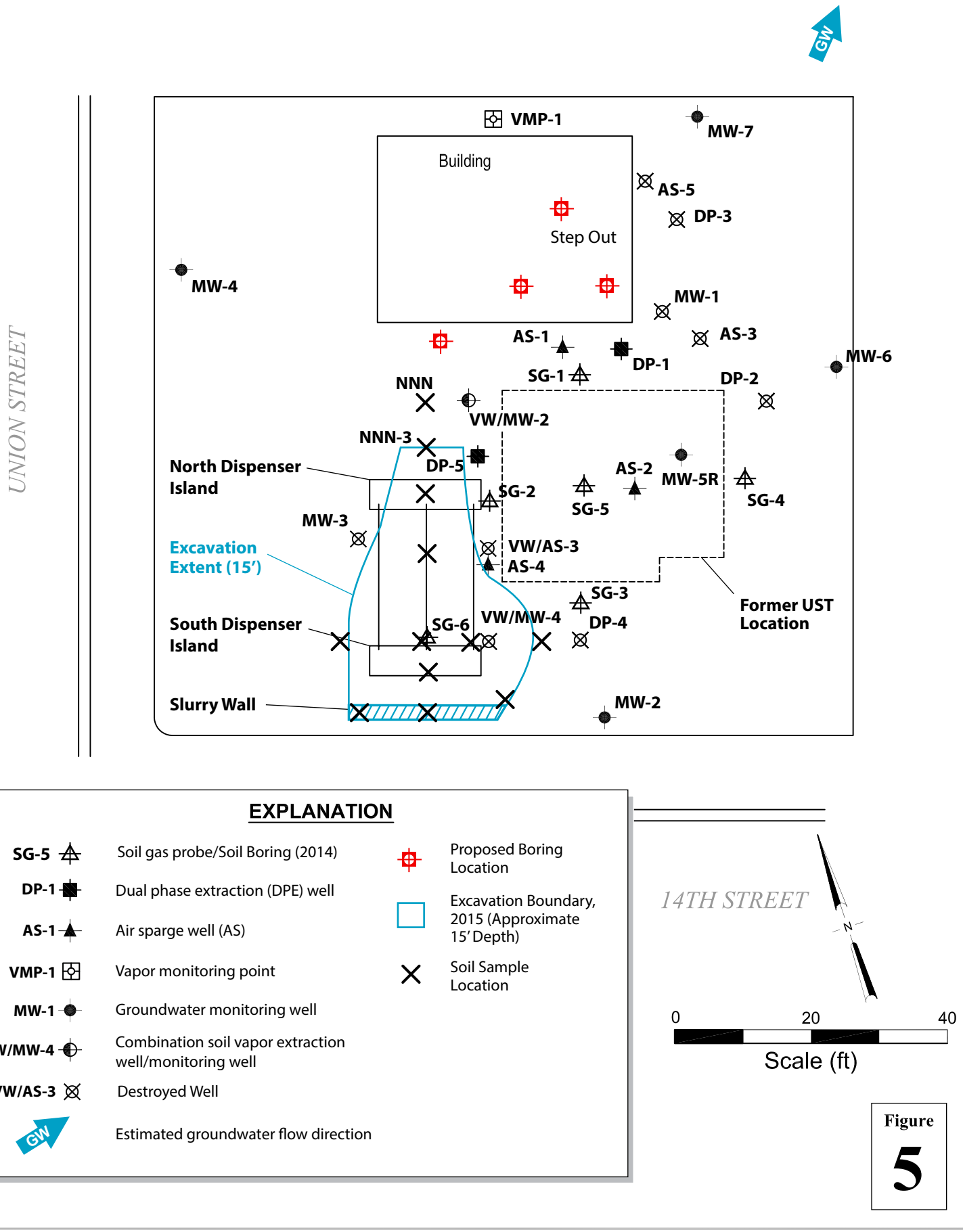
Scale (ft)

Figure 4

Former Shell Service Station
1230 14th Street
Oakland, California

PANGEA

Excavation Extent and Analytical Data, November 2015



EXPLANATION

- SG-5 — Soil gas probe/Soil Boring (2014)
- DP-1 — Dual phase extraction (DPE) well
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- VW/AS-3 — Destroyed Well
- GW — Estimated groundwater flow direction
- Proposed Boring Location
- Excavation Boundary, 2015 (Approximate 15' Depth)
- Soil Sample Location

Figure **5**

Former Shell Service Station
1230 14th Street
Oakland, California

PANGEA

Proposed Boring Locations

PANGEA

Table 1 Soil Analytical Results - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	Notes
			←			(ppm)				→	
Commercial ESL, drinking water			83	0.044	2.9	3.3	2.3	0.023	2,500	83	
Residential ESL, drinking water			83	0.044	2.9	3.3	2.3	0.023	410	83	
Commercial ESL, non-drinking water			450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-drinking water			100	0.12	29	33	31	8.4	410	100	Notes
Residential ESL, Human Health			**770**	**0.74**	**1,000**	**4.8**	**600**	**39**	**10,000**	**240**	--
Residential LTCP outdoor air criteria (0 to 5 ft bgs):			--	1.9	--	21	--	--	--	--	--
Residential LTCP outdoor air criteria (5 to 10 ft bgs):			--	2.8	--	32	--	--	--	--	--
Commercial LTCP outdoor air criteria (0 to 5 ft bgs):			--	8.2	--	89	--	--	--	--	--
Commercial LTCP outdoor air criteria (5 to 10 ft bgs):			--	12	--	134	--	--	--	--	--
November 2015 Excavation Samples											
E-2	11/11/2015	2	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
E-9	11/17/2015	9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
E-13	11/17/2015	13	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
W-4	11/11/2015	4	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
12W-10	11/12/2015	10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
12W-13	11/12/2015	13	3.4	<0.005	0.0080	<0.005	<0.005	<0.050	--	--	
14S-10	11/12/2015	10	46	<0.005	0.097	0.17	0.48	<0.050	--	--	
14S-12	11/12/2015	12	180	0.19	0.68	2.0	5.6	<1.7	--	--	
14S-15	11/12/2015	15	35	0.021	0.13	0.23	0.61	<0.050	--	--	
NNN-3	11/25/2015	3	260	<0.10	0.46	0.34	12	<1.0	--	140	
NN-9	11/17/2015	9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
NN-13	11/17/2015	13	410	<0.50	0.58	3.2	7.4	<5.0	--	--	
NNN-9	11/17/2015	9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
NNN-13	11/17/2015	13	15	<0.005	0.039	<0.005	0.029	<0.050	--	--	
SE-3	11/17/2015	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
SE-9	11/17/2015	9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
SW-3	11/17/2015	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
SW-9	11/17/2015	9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	--	--	
12N-10	11/11/2015	10	430	<0.17	0.78	1.9	17	<1.7	--	--	Excavated
12N-13	11/12/2015	13	**1,400**	**2.1**	8.3	**24**	110	<2.5	--	--	Excavated
12N-15	11/12/2015	15	110	0.36	0.43	1.5	7.4	<1.0	--	--	
12N-17	11/12/2015	17	11	0.043	0.077	0.14	0.69	<0.050	--	--	

Table 1 Soil Analytical Results - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	Notes
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Commercial ESL, non-drinking water			450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-drinking water			100	0.12	29	33	31	8.4	410	100	
Residential ESL, Human Health			**770**	**0.74**	**1,000**	**4.8**	**600**	**39**	**10,000**	**240**	--
Residential LTCP outdoor air criteria (0 to 5 ft bgs):			--	1.9	--	21	--	--	--	--	--
Residential LTCP outdoor air criteria (5 to 10 ft bgs):			--	2.8	--	32	--	--	--	--	--
Commercial LTCP outdoor air criteria (0 to 5 ft bgs):			--	8.2	--	89	--	--	--	--	--
Commercial LTCP outdoor air criteria (5 to 10 ft bgs):			--	12	--	134	--	--	--	--	--
F-10	11/11/2015	10	64	0.093	0.17	0.49	1.9	<0.50	--	--	Excavated
F-E-9.5	11/11/2015	9.5	**2,700**	<2.5	6.7	**9.7**	45	<25	--	--	Excavated
S-9.5	11/11/2015	9.5	**7,800**	**13**	96	**96**	**610**	<25	--	--	Excavated
N-9	11/17/2015	9	**2,600**	<0.50	2.3	**6.4**	200	<5.0	--	--	Excavated
N-13	11/17/2015	13	**7,200**	**34**	300	**120**	**730**	<25	--	--	Excavated
September 2014 Soil Investigation											
SG-1-3'	9/11/2014	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	2.1	
SG-1-6'	9/11/2014	6	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	2.1	
SG-2-3'	9/18/2014	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	3.1	
SG-2-6'	9/18/2014	6	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	3.6	
SG-3-3'	9/18/2014	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	1.1	
SG-3-6'	9/18/2014	6	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	1.2	
SG-4-3'	9/11/2014	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	3.7	
SG-4-6'	9/18/2014	6	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	8.1	
SG-5-3'	9/11/2014	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	4.2	
SG-6-3'	9/18/2014	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	6.1	
SG-6-6'	9/18/2014	6	**1,900**	<2.0	3.2	3.0	49	<2.0	--	**620**	
November 2003 Post-Peroxide Injection Sampling											
S-18-4	11/7/2003	4	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-18-9	11/7/2003	9	**1,800**	**4.0**	35	**21**	150	--	--	--	
S-18-14	11/7/2003	14	**2,000**	**27**	120	**42**	230	--	--	--	
S-18-19	11/7/2003	19	<1.0	0.028	0.073	0.019	0.10	--	--	--	
S-18-24	11/7/2003	24	<4.6	<0.023	0.027	<0.023	0.061	--	--	--	

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Commercial ESL, non-drinking water			450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-drinking water			100	0.12	29	33	31	8.4	410	100	
Residential ESL, Human Health			**770**	**0.74**	**1,000**	**4.8**	**600**	**39**	**10,000**	**240**	--
Residential LTCP outdoor air criteria (0 to 5 ft bgs):			--	1.9	--	21	--	--	--	--	--
Residential LTCP outdoor air criteria (5 to 10 ft bgs):			--	2.8	--	32	--	--	--	--	--
Commercial LTCP outdoor air criteria (0 to 5 ft bgs):			--	8.2	--	89	--	--	--	--	--
Commercial LTCP outdoor air criteria (5 to 10 ft bgs):			--	12	--	134	--	--	--	--	--
S-19-4	11/7/2003	4	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-19-8	11/7/2003	8	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-19-9	11/7/2003	9	3.5	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-19-14	11/7/2003	14	**2,000**	**9.6**	71	**34**	190	--	--	--	
S-19-19	11/7/2003	19	<1.0	0.0075	0.017	0.0079	0.036	--	--	--	
S-20-9	11/7/2003	9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-20-15	11/7/2003	15	<5.0	**1.2**	<0.025	0.095	0.026	--	--	--	
S-20-19.5	11/7/2003	19.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-20-21	11/7/2003	21	<4.6	**0.84**	<0.023	0.067	0.026	--	--	--	
S-20-24	11/7/2003	24	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-21-4	11/7/2003	4	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-21-9	11/7/2003	9	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
S-21-11	11/7/2003	11	680	<0.50	<0.50	4.4	14	--	--	--	
S-21-14	11/7/2003	14	**1,400**	**5.5**	**67**	**26**	130	--	--	--	
S-21-19	11/7/2003	19	<1.0	0.0083	0.033	0.010	0.044	--	--	--	
S-21-24	11/7/2003	24	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	
June 2002 Soil Investigation											
S-10 5.0-5.5	6/7/2002	5.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-10 8.5-9.0	6/7/2002	8.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-10 10-10.5	6/7/2002	10.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-10 12.5-13	6/7/2002	12.5	1,700	1.2	6.3	25	120	--	--	--	
S-10 15-15.5	6/7/2002	15.0	4,300	4.3	46	57	470	--	--	--	
S-10 17.5-18	6/7/2002	17.5	<1.0	0.012	0.012	0.012	0.062	--	--	--	
S-10 20-20.5	6/7/2002	20.0	690	2.0	9.1	11	56	--	--	--	
S-10 22.5-23	6/7/2002	22.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-10 24.5-25	6/7/2002	24.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-11 5-5.5	6/7/2002	5.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-11 7.5-8	6/7/2002	7.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-11 10.5-11	6/7/2002	10.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-11 12.5-13	6/7/2002	12.5	1,400	3.7	26	21	140	--	--	--	
S-11 15-15.5	6/7/2002	15.5	3,200	8.6	55	42	230	--	--	--	
S-11 17.5-18	6/7/2002	17.5	330	1.3	5.9	4.2	24	--	--	--	

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Residential LTCP outdoor air criteria (5 to 10 ft bgs):			--	2.8	--	32	--	--	--	--	--
Commercial LTCP outdoor air criteria (0 to 5 ft bgs):			--	8.2	--	89	--	--	--	--	--
Commercial LTCP outdoor air criteria (5 to 10 ft bgs):			--	12	--	134	--	--	--	--	--
S-11 20-20.5	6/7/2002	20.0	<1.0	0.015	0.018	<0.005	0.019	--	--	--	
S-11 22.5-23	6/7/2002	22.5	<1.0	0.019	0.045	0.015	0.092	--	--	--	
S-11 24.5-25	6/7/2002	24.5	<1.0	0.01	0.023	0.062	0.037	--	--	--	
S-11 26-26.5	6/7/2002	26.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-11 28.5-29	6/7/2002	28.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-12 5-5.5	6/7/2002	5.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-12 7.5-8	6/7/2002	7.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-12 13.5-14	6/7/2002	13.5	650	5.7	30	12	64	--	--	--	
S-12 15-15.5	6/7/2002	15.0	13,000	130	740	290	1,500	--	--	--	
S-12 17.5-18	6/7/2002	17.5	16	0.65	2.1	0.42	2.3	--	--	--	
S-12 20-20.5	6/7/2002	20.0	2	0.058	0.19	0.049	0.29	--	--	--	
S-12 22.5-23	6/7/2002	22.5	220	1.3	9.0	4.2	24	--	--	--	
S-12 24.5-25	6/7/2002	24.5	1.9	0.047	0.2	0.052	0.26	--	--	--	
S-13 5-5.5	6/7/2002	5.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-13 7.5-8	6/7/2002	7.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-13 12.5-13	6/7/2002	12.5	9,800	26	310	130	1,100	--	--	--	
S-13 15-15.5	6/7/2002	15.0	3,900	37	180	76	360	--	--	--	
S-13 17.5-18	6/7/2002	17.5	4,700	6.5	130	59	580	--	--	--	
S-13 20-20.5	6/7/2002	20.0	<1.0	0.028	0.0085	<0.005	0.068	--	--	--	
S-14 5.5-6	6/10/2002	5.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-14 7.5-8	6/10/2002	7.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-14 9-9.5	6/10/2002	9.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-14 11.5-12	6/10/2002	11.5	<1.0	<.005	<.005	<.005	0.0078	--	--	--	
S-14 12.5-13	6/10/2002	12.5	670	<0.25	0.71	5.4	19	--	--	--	
S-14 15-15.5	6/10/2002	15.0	1,100	0.88	25	22	120	--	--	--	
S-14 17.5-18	6/10/2002	17.5	3.8	0.1	0.3	0.89	0.48	--	--	--	
S-14 20-20.5	6/10/2002	20.0	4	0.39	0.51	0.12	0.5	--	--	--	
S-15 5-5.5	6/10/2002	5.0	<1.0	<.005	<.005	<.005	0.011	--	--	--	
S-15 7.5-8	6/10/2002	7.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-15 10-10.5	6/10/2002	10.0	2.3	<.005	<.005	<.005	<.005	--	--	--	
S-15 12.5-13	6/10/2002	12.5	<1.0	<.005	<.005	<.005	0.032	--	--	--	
S-15 15-15.5	6/10/2002	15.0	1,200	1.9	4.3	22	110	--	--	--	

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Commercial LTCP outdoor air criteria (5 to 10 ft bgs):			--	12	--	134	--	--	--	--	--
S-15 17.5-18	6/10/2002	17.5	24	1.3	1.9	0.4	1.9	--	--	--	
S-15 20-20.5	6/10/2002	20.0	270	0.51	3.5	4.2	21	--	--	--	
S-16 7.5-8	6/10/2002	7.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-16 10-10.5	6/10/2002	10.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-16 11.5-12	6/10/2002	11.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-16 15-15.5	6/10/2002	15.0	4,500	<1.0	4	94	460	--	--	--	
S-16 17.5-18	6/10/2002	17.5	5,000	<1.0	23	76	360	--	--	--	
S-16 20-20.5	6/10/2002	20.0	1.3	0.12	0.0088	0.08	0.08	--	--	--	
S-17 5-5.5	6/10/2002	5.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-17 10-10.5	6/10/2002	10.0	<1.0	<.005	<.005	<.005	<.005	--	--	--	
S-17 12.5-13	6/10/2002	12.5	4,300	0.64	6.8	48	340	--	--	--	
S-17 15-15.5	6/10/2002	15.0	590	0.41	5.8	11	58	--	--	--	
S-17 17.5-18	6/10/2002	17.0	5.2	0.57	0.073	0.16	0.66	--	--	--	
S-17 20-20.5	6/10/2002	20.0	<1.0	<.005	<.005	<.005	0.013	--	--	--	
S-18 2.5-3	6/10/2002	2.5	<1.0	<.005	<.005	<.005	<.005	--	--	--	
MW-5 Installation											
MW-5-9.5	9/27/2001	9.5	3.9	<0.0050	<0.0050	0.0069	0.019	<0.50	--	--	
MW-5-14.0	9/27/2001	14.5	790	2.7	30	11	67	<1.0	--	--	
December 2000 Geoprobe Investigation											
GP-1-5	12/11/2000	5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-1-10	12/11/2000	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-1-15	12/11/2000	15.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-1-20	12/11/2000	20.0	120	<0.020	0.022	0.64	1.1	<0.020	--	--	
GP-2-5	12/11/2000	5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-2-10.5	12/11/2000	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-2-15	12/11/2000	15.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-3-5	12/11/2000	5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-3-10.0	12/11/2000	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-3-15.0	12/11/2000	15.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-4-5	12/11/2000	5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	

Table 1 Soil Analytical Results - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	Notes
			←			(ppm)	→				
Commercial ESL, drinking water			83	0.044	2.9	3.3	2.3	0.023	2,500	83	
Residential ESL, drinking water			83	0.044	2.9	3.3	2.3	0.023	410	83	
Commercial ESL, non-drinking water			450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-drinking water			100	0.12	29	33	31	8.4	410	100	
Residential ESL, Human Health			**770**	**0.74**	**1,000**	**4.8**	**600**	**39**	**10,000**	**240**	--
Residential LTCP outdoor air criteria (0 to 5 ft bgs):			--	1.9	--	21	--	--	--	--	--
Residential LTCP outdoor air criteria (5 to 10 ft bgs):			--	2.8	--	32	--	--	--	--	--
Commercial LTCP outdoor air criteria (0 to 5 ft bgs):			--	8.2	--	89	--	--	--	--	--
Commercial LTCP outdoor air criteria (5 to 10 ft bgs):			--	12	--	134	--	--	--	--	--
GP-4-10	12/11/2000	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-4-15	12/11/2000	15.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-5-5	12/11/2000	5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-5-10	12/11/2000	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
GP-5-15	12/11/2000	15.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
March 1996 Investigation											
SB-A/(MW-1)-10.5	03/06/96	10.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	160	--	
SB-A/(MW-1)-16.0	03/06/96	16.0	9.8	1.9	0.4	0.22	1.1	--	57	--	
SB-A/(MW-1)-20.5	03/06/96	20.5	5.9	0.89	0.049	0.19	0.25	--	80	--	
SB-B/(MW-2)-10.5	03/06/96	10.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-B/(MW-2)-16.0	03/06/96	16.0	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-C-11.75	03/06/96	11.8	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-C-15.5	03/06/96	15.5	1.9	0.022	0.12	0.086	0.32	--	--	--	
SB-D/(MW-3)-10.5	03/06/96	10.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-D/(MW-3)-15.5	03/06/96	15.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-E-10.5	03/06/96	10.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	<50	--	
SB-E-16.0	03/06/96	16.0	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	200	--	
SB-F(VW/AS)-1-5.5	03/07/96	5.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-F(VW/AS-1)-10.5	03/07/96	10.5	62	0.97	4.2	1.4	8.0	--	--	--	
SB-F(VW/AS-1)-15.5	03/07/96	15.5	7.4	1.7	0.44	0.2	0.6	--	--	--	
SB-F(VW/AS-1)-20.5	03/07/96	20.5	20	2.6	1.7	0.5	2.0	--	--	--	
SB-G(VW/MW-2)-8.5	03/07/96	8.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-G(VW/MW-2)-10.5	03/07/96	10.5	<1.0	0.0032	<0.0025	<0.0025	<0.0025	--	--	--	
SB-G(VW/MW-2)-20.5	03/07/96	20.5	2.9	0.47	0.34	0.15	0.57	--	--	--	
SB-H(VW/AS-3)-8.5	03/07/96	8.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-H(VW/AS-3)-10.5	03/07/96	10.5	<1.0	0.018	<0.0025	<0.0025	0.014	--	--	--	
SB-H(VW/AS-3)-21.0	03/07/96	21.0	1.0	0.047	0.016	0.0037	0.017	--	--	--	
SB-I(VW/MW-4)-5.5	03/08/96	5.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-I(VW/MW-4)-8.5	03/08/96	8.5	80	0.14	0.33	1.3	5.2	--	--	--	

Table 1 Soil Analytical Results - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
			←			(ppm)				→	
Commercial ESL, drinking water			83	0.044	2.9	3.3	2.3	0.023	2,500	83	
Residential ESL, drinking water			83	0.044	2.9	3.3	2.3	0.023	410	83	
Commercial ESL, non-drinking water			450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-drinking water			100	0.12	29	33	31	8.4	410	100	Notes
Residential ESL, Human Health			**770**	**0.74**	**1,000**	**4.8**	**600**	**39**	**10,000**	**240**	--
Residential LTCP outdoor air criteria (0 to 5 ft bgs):			--	1.9	--	21	--	--	--	--	--
Residential LTCP outdoor air criteria (5 to 10 ft bgs):			--	2.8	--	32	--	--	--	--	--
Commercial LTCP outdoor air criteria (0 to 5 ft bgs):			--	8.2	--	89	--	--	--	--	--
Commercial LTCP outdoor air criteria (5 to 10 ft bgs):			--	12	--	134	--	--	--	--	--
SB-I(VW/MW-4)-15.5	03/08/96	15.5	3.4	0.23	0.093	0.1	0.42	--	--	--	
SB-J-10.5	03/08/96	10.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
SB-K(MW-4)-10.5	03/08/96	10.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	
Product Piping Samples											
TS-1-4.0	11/27/1995	4	<1.0	<0.0050	0.005	<0.0050	<0.0050	--	--	--	
TS-2-2.0	11/27/1995	2	<1.0	<0.0050	0.0057	<0.0050	0.0075	--	--	--	
TS-3-3.0	11/27/1995	3	<1.0	<0.0050	<0.0050	<0.0050	0.0069	--	--	--	
TS-4-3.0	11/27/1995	3	<0.005	0.011	0.038	0.0073	0.043	--	--	--	
TS-5-2.5	11/27/1995	2.5	46	<0.10	<0.10	<0.10	2	--	--	--	
TS-6-3.0	11/27/1995	3	3,100	30	<6.0	33	230	--	--	--	
Tankpit Excavation Confirmation Samples											
S2-15.0	11/27/1995	15	3,600	<6.0	140	78	430	--	--	--	
S3-15.0	11/27/1995	15	1,000	7.6	33	19	100	--	--	--	
S4-15.0	11/27/1995	15	5,600	72	280	110	580	--	--	--	
S5-15.0	11/27/1995	15	2,800	36	160	64	350	--	--	--	
S6-15.0	11/27/1995	15	3,800	<6.0	<6.0	76	350	--	--	--	
S7-15.0	11/27/1995	15	570	<0.50	<0.50	4.9	13	--	--	--	
S8-15.0	11/27/1995	15	3,200	60	200	69	350	--	--	--	
S9-15.0	11/27/1995	15	5,100	62	260	110	570	--	--	--	
1993 UST and Dispenser Removal Samples											
S-1	08/25/93	8.5	67	0.038	0.089	0.110	0.380	--	7,700	1,200	
S-2	08/25/93	14.0	2,200	1.4	3.2	3.5	13	--	--	--	
S-3	08/25/93	11.0	530	0.4	0.76	0.83	3.1	--	--	--	
S-4	08/25/93	11.0	40	0.031	0.059	0.066	0.29	--	--	--	
S-5	08/25/93	11.0	1.4	<0.005	0.0063	0.0081	0.025	--	--	--	
S-6	08/25/93	13.0	1,600	0.97	2.3	2.7	10	--	--	--	
S-7	08/25/93	11.0	11,000	6.7	16	18	69	--	--	--	
S-8	08/25/93	11.0	18,000	11	26	30	110	--	--	--	
S-9	08/25/93	11.0	6,200	3.7	8.7	10	37	--	--	--	
DS-1	08/25/93	1.0	0.013	0.0070	0.017	0.021	0.072	--	--	--	
DS-2	08/25/93	1.0	0.0020	0.0053	0.0089	0.012	0.031	--	--	--	

Table 1 Soil Analytical Results - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Oil and Grease	TPHd	
			←			(ppm)				→	
Commercial ESL, drinking water			83	0.044	2.9	3.3	2.3	0.023	2,500	83	
Residential ESL, drinking water			83	0.044	2.9	3.3	2.3	0.023	410	83	
Commercial ESL, non-drinking water			450	0.26	29	33	100	8.4	2,500	150	
Residential ESL, non-drinking water			100	0.12	29	33	31	8.4	410	100	Notes
Residential ESL, Human Health			**770**	**0.74**	**1,000**	**4.8**	**600**	**39**	**10,000**	**240**	--
Residential LTCP outdoor air criteria (0 to 5 ft bgs):			--	1.9	--	21	--	--	--	--	--
Residential LTCP outdoor air criteria (5 to 10 ft bgs):			--	2.8	--	32	--	--	--	--	--
Commercial LTCP outdoor air criteria (0 to 5 ft bgs):			--	8.2	--	89	--	--	--	--	--
Commercial LTCP outdoor air criteria (5 to 10 ft bgs):			--	12	--	134	--	--	--	--	--
DS-3	08/25/93	1.0	0.0013	<0.0050	0.0059	0.0061	0.018	--	--	--	
DS-4	08/25/93	1.0	0.0027	0.0055	0.0094	0.016	0.047	--	--	--	
DS-5	08/25/93	1.0	0.0034	0.0059	0.011	0.018	0.061	--	--	--	
DS-6	08/25/93	1.0	0.011	0.0068	0.015	0.018	0.064	--	--	--	
VSW-1	08/25/93	6.0	4,800	2.9	7.0	8.0	30	--	--	--	
VSW-2	08/25/93	6.0	0.021	0.15	0.29	0.33	1.3	--	--	--	
1991 Soil Borings											
SB1-6-6.5	2/21/1991	6.0	11	0.014	0.37	0.22	1.2	--	--	--	
SB1-10.5-11	2/21/1991	10.5	4.6	0.15	0.5	0.13	0.68	--	--	--	
SB1-15.5-16	2/21/1991	15.5	7.5	2.1	1.8	0.18	1.1	--	--	--	
SB2-6-6.5	2/21/1991	6.0	<1.0	<.0050	<.0050	<.0050	0.034	--	--	--	
SB2-10.5-11	2/21/1991	10.5	1.8	0.062	0.038	0.035	0.085	--	--	--	
SB2-15.5-16	2/21/1991	15.5	6.1	1.2	1.4	0.15	0.8	--	--	--	
SB3-6-6.5	2/21/1991	6.0	<1.0	0.038	0.0054	0.015	0.034	--	--	--	
SB3-10.5-11	2/21/1991	10.5	1,600	18	98	35	190	--	--	--	
SB3-15.5-16	2/21/1991	15.5	2.4	0.31	0.21	0.064	0.35	--	--	--	

Notes:

Commercial/Residential ESL, drinking water = Table A - Environmental Screening Levels for Shallow Soil (<3 meters) where groundwater **is** a current or potential source of drinking water, as established by the RWQCB-SFBR, Interim Final November 2007 (Revised December 2013).

Commercial/Residentail ESL, non-drinking water = Table B - Environmental Screening Levels for Shallow Soil (<3 meters) where groundwater is a not current or potential source of drinking water, as established by the RWQCB-SFBR, Interim Final November 2007 (Revised December 2013).

1,400 = Samples collected after peroxide injection, which contain concentrations exceeding the ESL for residential human health protection are shown in **bold**.

Sample depth = Feet below ground surface

ppm = parts per million (milligrams per kilogram).

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015C.

TPHg = Total Petroleum Hydrocarbons as gasoline, analyzed by EPA Method 8015 in 3/6/96 event; by EPA Method 8260B for susequent events.

Benzene, toluene, ethylbenzene, and xylene analyzed by EPA Method 8020 in 3/6/96 event; by EPA Method 8260B for subsequent events

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260B.

Oil and grease by Standard Method 5520.

Table 2. Soil Gas Analytical Data - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Boring/ Sample ID	Date Sampled	Depth (ft-ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	TPH Gasoline	MTBE	Naphthalene	Other VOCs	Helium	Oxygen	Carbon Dioxide	Methane	Notes
			← ug/m^3 →								%	%	%	%	
Residential ESL for shallow **soil gas**:			42	160,000	490	52,000	**50,000**	4,700	36	Varies	--	--	--	--	
Commercial ESL for shallow **soil gas**:			420	1,300,000	4,900	220,000	**50,000**	47,000	360	Varies	--	--	--	--	
LTCP Commercial Criteria (With Bioattenuation Zone)			280,000	--	3,600,000	--	--	--	310,000	--	--	--	--	--	
LTCP Commercial Criteria (No Bioattenuation Zone)			**280**	--	3,600	--	--	--	310	--	--	--	--	--	
SG-1	11/11/2014	5-6	<3.7	<4.4	<5.0	<10	<240	<4.2	<24	--	<0.12	18	--	--	
SG-2	11/11/2014	5-6	<3.8	<4.5	<5.2	<10.4	<240	<4.3	<25	--	<0.12	20	--	--	
SG-3	11/11/2014	5-6	<3.9	<4.6	<5.2	<10.4	<250	<4.4	<25	--	<0.12	18	--	--	
SG-4	11/11/2014	5-6	<3.9	<4.6	<5.2	<10.4	<250	<4.4	<25	--	<0.12	16	--	--	
SG-5	11/11/2014	3.5-4.5	<3.9	<4.6	<5.4	<10.8	<250	<4.4	<26	--	<0.12	18	--	--	
SG-6	11/11/2014	5-6	**1,300**	480	<520	17,700	**9,800,000**	<440	<2,500	--	<0.12	14	--	--	
VMP-1	11/11/2014	5-6	<3.7	<4.4	<5.0	<10	490	<4.2	<24	--	<0.12	19	--	--	

Abbreviations:

SG-1 = Soil Gas Sample

ug/m3 = Micrograms per cubic meter of air results calculated by laboratory from parts per billion results using normal temperature and pressure (NPT).

ft - ft bgs = Depth interval below ground surface (bgs) in feet.

Other VOCs = Volatile organic compounds by EPA Method TO-15, uses GC/MS scan.

< n = Chemical not present at a concentration in excess of detection limit shown.

--- = Not analyzed

MRL = Method reporting limit.

ESL = Environmental Screening Level for Shallow Soil Gas with Residential and Commercial/Industrial Land Use, for samples less than five feet below a building foundation or ground surface (Table E).

ESL established by the SFBRWQCB, Interim Final - November 2007 (revised December 2013).

LTCP = Low Threat Closure Policy established by the State Water Resources Control Board and adopted May 1, 2012. Soil Gas Criteria.

Bold = Concentrations above ESLs for Residential and/or Commercial Land Use for shallow soil gas (SG samples).

Varies = Concentration detections for VOCs varies. Please see analytical report.

APPENDIX A

Regulatory Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

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

August 3, 2015

Mr. Andrew Saberi
Sabek, Inc.
1045 Airport Blvd.
South San Francisco, CA 94080

Mr. Som Gupta
c/o Abe Gupta
AV Law Firm PC
111 Deerwood Road, Suite 380
San Ramon, CA 94583
(*Sent via E-mail to: abe@avlawyers.com*)

Perry Pineda
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039
(*Sent via E-mail to: perry.pineda@shell.com*)

Subject: Work Plan Approval for Fuel Leak Case No. RO0000433 and GeoTracker Global ID T0600101691, Shell/Sabek Inc, 1230 14th Street, Oakland, CA 94607

Dear Mr. Saberi, Mr. Pineda, and Mr. Gupta:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recently submitted document entitled, "*Workplan for Soil Excavation"* dated July 28, 2015 (Work Plan). The Work Plan, which was prepared by Pangea Environmental Services on behalf of property owner Andy Saberi, presents plans for limited soil excavation in the area of a former dispenser.

The proposed scope of work is acceptable and may be implemented as proposed. We request that you perform the proposed work and send us the reports described below.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

- **November 13, 2015** – Soil Excavation and Confirmation Soil Sampling Report
  File to be named: EX_R_yyyy-mm-dd RO433

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.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org. Case files can be reviewed online at the following website: http://www.acgov.org/aceh/index.htm. If your email address does not appear on the cover page of this notification ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Attachment: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Robert Clark-Ridell, Pangea, 1710 Franklin Street, Suite 200, Oakland, CA 94612 (*Sent via E-mail to: BRiddell@pangeaenv.com*)

Michael R. Leslie, Caldwell, Leslie, & Proctor, 725 South Figueroa Street, 31st Floor, Los Angeles, CA 90017-5524

William Paynter, Law Offices of William H. Paynter, 809 Broadway, Suite 6, Sonoma, CA 94576

Michael Taffet, Oak Center Neighborhood Association, (*Sent via E-mail to: mjtaffet@gmail.com*)

Ellen Wyrick-Parkinson, 1420 Magnolia Street, Oakland, CA 94607

M. Willingham, 1418-1420 Union Street, Oakland, CA 94607

Jerry Wickham, ACEH (*Sent via E-mail to: jerry.wickham@acgov.org*)
GeoTracker, eFile

Bob Clark-Riddell

From: Bob Clark-Riddell
Sent: Wednesday, November 18, 2015 4:47 PM
To: 'Wickham, Jerry, Env. Health'
Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction
Attachments: Draft Excavation Plan 11-18-15.pdf

Jerry,

Per your request Pangea coordinated additional delineation north and east of the excavation. As shown on the attached map, the planned excavation will be expanded to the north to meet the revised cleanup goal. The excavation will be extended north about 10 feet and east about 5 ft. Note that the first northern test pit found 34 mg/kg benzene at 13', much higher than prior maximum benzene. This impact will now be removed also.

Contact me with comments on the planned excavation expansion.

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

-----Original Message-----
From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]
Sent: Monday, November 16, 2015 6:21 PM
To: Bob Clark-Riddell <briddell@pangeaenv.com>
Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction

Bob,

Based on the information you have presented, it appears that the proposed excavation to the north may be sufficient provided that confirmation soil samples collected at the completion of excavation to the north do not exceed the modified cleanup goals. In addition to the deeper soil samples collected at 10 feet and greater, please collect one confirmation sample between 3 to 5 feet bgs and one soil sample between 6 and 10 feet bgs from the northern wall for confirmation.

I did not see sidewall results from the eastern sidewall, only a floor sample apparently from 9.5 feet bgs. Therefore, it is not clear whether the excavation is sufficient to the east. Further delineation using borings or exploratory trenching to the east may be appropriate. For the eastern, southern, and western sidewalls, please include one soil confirmation sample from approximately 3 to 5 feet bgs and one confirmation soil sample between 6 and 10 feet bgs to demonstrate that shallow soils do not pose a risk and a bioattenuation zone exists for soil vapor.

Regards,
Jerry Wickham
Alameda County Environmental Health

_____
From: Bob Clark-Riddell [briddell@pangeaenv.com]
Sent: Monday, November 16, 2015 4:08 PM

To: Wickham, Jerry, Env. Health
Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction

Hello Jerry,

Based on field observations and analytical results from samples collected during exploratory trenching last week, Pangea prepared the attached draft figure showing our tentative extent of excavation. The planned depth of the excavation is approximately 14 ft. For shoring, we will install a slurry wall adjacent the sidewalk and southern boundary on Tuesday. Excavation and offhaul will be Tuesday, Wed and Thurs. Our goal is to complete the excavation by Thursday this week, and backfill up to 5 ft depth on Friday.

This tentative extent is based on cleanup to revised screening levels from those in the approved workplan. Rather than more conservative Final ESLs in the workplan, Pangea proposes using the ESLs protective of human health of 0.74 mg/Kg benzene and 770 mg/Kg TPHg for residential site use (the anticipated future site use within a residential neighborhood). Theses screening levels are summarized below.

Screening Level

Benzene

TPHg

Approved Workplan (Final ESLs)

0.044 ppm

100 ppm

Proposed Level (Human Health ESLs, Residential Site Use)

0.74 ppm

770 ppm

Question: As shown on the attached figure, contamination has been delineated to the proposed revised screening level to the south and west. Additional delineation to the north and east can be performed tomorrow if necessary. Otherwise, we can perform compliance sampling along the excavation boundary but we would not plan to overexcavate beyond the boundary at a later date. Would you like additional borings or exploratory trenching to the north and east for further delineation on Tuesday, or do you think we would have performed sufficient secondary source removal?

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

From: Bob Clark-Riddell
Sent: Thursday, November 12, 2015 12:43 PM
To: 'Wickham, Jerry, Env. Health' <jerry.wickham@acgov.org>
Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction

Jerry,

Thank you for responding quickly after your return from Veteran's Day. As we discussed, we should have some new soil lab data to discuss on Monday morning regarding the extent of excavation. Bob

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]
Sent: Thursday, November 12, 2015 8:11 AM
To: Bob Clark-Riddell <briddell@pangeaenv.com<mailto:briddell@pangeaenv.com>>
Subject: RE: 1230 14th Street Excavation - Urgent Well Destruction

Bob,

The proposed destruction of the monitoring wells identified below is acceptable. Reuse of the shallow overburden soil is also acceptable provided that the sampling is consistent with the PHIS guidance and the sampling results are less than Tier I ESLs.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org<mailto:jerry.wickham@acgov.org>

From: Bob Clark-Riddell [mailto:briddell@pangeaenv.com]
Sent: Wednesday, November 11, 2015 3:33 PM
To: Wickham, Jerry, Env. Health <jerry.wickham@acgov.org<mailto:jerry.wickham@acgov.org>>
Subject: FW: 1230 14th Street Excavation - Urgent Well Destruction
Importance: High

Hello Jerry,

This email follows my voicemail message to you today about the subject site. During today's commencement of the approved soil excavation, we encountered heavy odor and green-stained soil about 8-10 ft depth. We have performed exploratory trenches in each direction to characterize the extent of most significant contamination. Here are some urgent questions.

1. Well Destruction – Due to apparent significant impact extending to the south, we recommend destroying well VW/MW-4 ASAP (this Friday if possible). This well is 20' deep with a 2" casing diameter. During destruction of well VW/MW-4, it makes sense to destroy additional wells at the same time for cost control. Pangea seeks your permission to destroy well VW/MW-4 by pressure grouting, and also wells located further from the excavation activities in progress (such as wells AS-5, DP-3, MW-1, AS-3, DPE-2). The remainder of the site wells, including key perimeter wells MW-6 and MW-7) can be destroyed at a later date after agency noticed of intent to close. Upon your concurrence we would expedite permitting and destruction. Is this acceptable?

2. Overburden Soil Reuse - The shallow overburden soil (about 2-5' depth) appears very clean. We'd like to reuse this soil about 3-6' depth at the site. Consistent with the attached PHIS guidance, we would analyze one sample for every 25 cy of reuse. We expect to reuse about 30-50 cy and analyze two samples for TPHg, TPHd, BTEX, naphthalene for comparison to Tier I ESLs. Is this acceptable?

Please contact me with any questions.

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

Bob Clark-Riddell

From: Bob Clark-Riddell
Sent: Thursday, November 19, 2015 3:09 PM
To: 'Ellsworth, Ellen'
Cc: 'James Bauer'; 'Harlan, David'; 'Ray, Cliff'
Subject: RE: 1230 14th St. Grading Package Addendum

Ellen,

ST will also bring their 'wet vac' water-utilizing vacuum system connected to a 55-gallon drum. I look forward to any additional comments you may have after discussing with Inspector Ray.

Thank you for the verbal approval to order the trucks to continue our work tomorrow. Your quick response is very appreciated, and will allow us to avoid a large open excavation over the weekend. Bob

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

From: Bob Clark-Riddell
Sent: Thursday, November 19, 2015 2:38 PM
To: 'Ellsworth, Ellen' <EEllsworth@oaklandnet.com>
Cc: James Bauer <james@sustainabletech.cc>; Harlan, David <DHarlan@oaklandnet.com>; Ray, Cliff <CRay@oaklandnet.com>
Subject: RE: 1230 14th St. Grading Package Addendum
Importance: High

Ellen,

Thank you for meeting just now with me and James of Sustainable Technologies (ST) to go over your email below and Inspector Ray's stop work order/correction notice. Here is a summary of our discussion, and the information you requested is described herein.

1. **Erosion controls:** ST will augment the current controls by providing rumble strips (see rumble strip photo) at the site access point, and is obtaining a street sweeper attachment for the backhoe for street and site sweeping. Straw swaddles are ready for expanded use as necessary. As shown on the attached picture 'access and loading area swept clean', regular sweeping before and after each truck has kept soil and dust on the paved site area and exit to the street to a bare minimum.

2. **Additional cubic yards:** Per the attached 'Email-Wickham', based on additional sample results the ACEH is requiring the excavation be extended laterally away from the sidewalk and deeper in the central hot spot. The excavation limit and volume is described below with item 4.

3. **Schedule**: Our plan was to finish all or most excavation and soil offhaul by Monday, Nov 23. Our goal is to safety and erosion control, and we can achieve this best by resuming work quickly. If today by 3:30 pm we can get approval to resume work, we can request trucks for tomorrow morning. This will allow us to remove some from excavation bottom so we can commence backfilling with rock onsite (and two truckloads scheduled for delivery about noon. If we cannot resume work ASAP and cannot get trucks for tomorrow, the project could

extend over the Thanksgiving holidays when rain is expected. Thank you in advance for helping us get back on schedule to maximize erosion control and to ensure safety for site operations and the public.

4. **Revised Plan of Excavation limits:** Exploratory trench samples have delineated the new excavation limit acceptable to the ACEH as shown on attached 'draft excavation plan'. ACEH is requiring excavation to about 14' depth and extension to the north. The anticipated soil excavation volume is about 500-550 cubic yards. For shoring along the southern extent, a 3' thick slurry wall (about 30' long) was installed along the southern excavation boundary. The remainder of the excavation has been sloped as necessary.

5. **Traffic Control**: Traffic control is not needed. ST has ordered shorter trucks to allow access and egress without traffic control.

Pangea respectfully requests that you update us as quickly as possible. Allowing us to resume operations by 3:30 pm today would help resume soil offhaul tomorrow to start backfilling before the weekend. Thank you very much.

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

From: Ellsworth, Ellen [mailto:EEllsworth@oaklandnet.com]
Sent: Thursday, November 19, 2015 1:23 PM
To: Bob Clark-Riddell <briddell@pangeaenv.com>
Cc: James Bauer <james@sustainabletech.cc>; Harlan, David <DHarlan@oaklandnet.com>; Ray, Cliff <CRay@oaklandnet.com>
Subject: RE: 1230 14th St. Grading Package Addendum

Bob/James

I'm available to meet with you this afternoon until 3:00 PM. Please bring copy of the Stop Work Notice. I spoke with Cliff Ray, Senior Construction Inspector, earlier and understand there are problems with the following:

1. Insufficient Traffic Controls; Flagman doesn't have signs and blocking of traffic.*
2. Grading amount is in excess of 100 cu. yds. And, anticipated amount in permit is 50 cu. yds. with an expected 4 days to complete the work.
3. Lack of erosion control measures around site and at inlets.
4. Trucks leaving the site and dragging excess dirt and debris into the streets.

Please provide the following information when we meet or by email:

1. Erosion Controls must be resolved immediately. Please submit photos showing all corrections made.
2. Explain additional cu. yds. removal and progress update.
3. Provide expected completion date and updated work schedule.
4. Provide a revised plans showing expected limits of work.
5. Are traffic control measures required in the City's right-of-way to complete this work?*

*A permit from Traffic Engineering Services, Public Works Agency is required for any traffic control measures placed within this City's right-of-way. This is a separate permit from the Building Grading Permit.

Thank you,
Ellen

Ellen Ellsworth

Assistant Engineer II
Bureau of Building
Planning and Building Department
City of Oakland
(510) 238-7204

From: Bob Clark-Riddell [mailto:briddell@pangeaenv.com]
Sent: Thursday, November 19, 2015 12:41 PM
To: Ellsworth, Ellen
Cc: James Bauer
Subject: RE: 1230 14th St. Grading Package Addendum
Importance: High

Ellen,

As you may know, inspector Cliff Ray issued a stop work order this morning. Cliff said we should be able to get back on schedule quickly to finish up and beat the rains.

I left you a voicemail this morning asking when James and I can come meet with you or appropriate people. Please contact me at your earliest convenience at 510.435.8664.

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

From: Ellsworth, Ellen [mailto:EEllsworth@oaklandnet.com]
Sent: Thursday, October 29, 2015 10:34 AM
To: James Bauer <james@sustainabletech.cc>; Bob Clark-Riddell <briddell@pangeaenv.com>
Subject: RE: 1230 14th St. Grading Package Addendum

Hi James and Bob,

The Grading Permit GR1500097 and the AMR1500106 were both approved by Tim Low, Acting Building Official. The Grading Bond in the amount of the Engineer's Estimate of $18,900.00 is required prior to issuance of the Grading Permit. The permit and approved plans have been submitted for Final Check. Wayne Wada, Process Coordinator II, or another Building Staff Coordinator, will be calling you when the permit is ready for pick up.

Thanks,
Ellen

Ellen Ellsworth
Assistant Engineer II
Bureau of Building
Planning and Building Department
City of Oakland
(510) 238-7204

Bob Clark-Riddell

From: Wickham, Jerry, Env. Health <jerry.wickham@acgov.org>
Sent: Monday, December 07, 2015 5:37 PM
To: Bob Clark-Riddell
Subject: RE: RO433 Shell Station 1230 14th Street Oakland

Hi Bob,

The proposed boring locations appear acceptable. You will need to submit a work plan or work plan addendum to an existing work plan to describe how the borings will be advanced, screened, logged, and sampled.

Regards,
Jerry Wickham
Alameda County Environmental Health

_____
From: Bob Clark-Riddell [briddell@pangeaenv.com]
Sent: Monday, December 07, 2015 4:05 PM
To: Wickham, Jerry, Env. Health
Subject: RE: RO433 Shell Station 1230 14th Street Oakland

Hello Jerry,

This email follows our recent discussion about the excavation and impact at the subject site. Pangea has completed soil excavation in the planned area to below the revised screening levels. The excavation limit and soil data are summarized on attached Figure 2 and Table 1. Note that elevated TPHg and benzene (as high as 34 mg/kg benzene) impact was found about 9 to 13 ft depth and was removed to the revised screening levels.

Based on our observations during the soil excavation, Pangea is uncertain about the source of the hydrocarbons within the excavated area. The hydrocarbon source could have been from the dispenser area or from the UST area. The elevated hydrocarbon impact so close to former remediation wells suggests the fine sand impeded prior insitu remedial effectiveness around the fringe of the former UST area.

Therefore, Pangea considers the area north and northwest of the former UST area as a potential data gap with respect to case closure. To address this data gap, Pangea recommends three soil borings (and one contingent step out boring) to approximately 15 ft depth where shown on Figure 3. If you concur with this recommendation, Pangea would complete the borings soon and consider the need for any additional source excavation prior to case closure.

Please contact me with any questions. Thank you. Bob

Bob Clark-Riddell, P.E.
Pangea Environmental Services, Inc.
510.435.8664 direct

From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]
Sent: Monday, November 30, 2015 4:38 PM
To: 'Cook, Brigitte' <BCook@oaklandnet.com>; Michael J Taffet <mjtaffet@gmail.com>
Cc: Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>; Bob Clark-Riddell <briddell@pangeaenv.com>
Subject: RO433 Shell Station 1230 14th Street Oakland

APPENDIX B

Permits & Open Cut Excavation Plan Drawings

CITY OF OAKLAND
Department of Planning and Building
BUILDING SERVICES
250 Ogawa Plaza · 2nd Floor · Oakland, CA 94612
telephone (510) 238-3444 · facsimile (510) 238- 7287 · www.oaklandnet.com

PERMIT INSPECTION RECORD

Commercial and Multiple-Unit Residential

California Building, Electrical, Plumbing, Mechanical, Energy, and Green Building Codes
Oakland Building, Planning, Sustainablity, Fire, and Municipal Codes

Address:	1230 14TH ST, Oakland, CA 94607	**ST Suite:**	**APN:** 005 037701901
Description:	Remove deteriorated gas pump cover and ground concrete as part of ongoing remediation and cleanup per County Health; also code enf case for city 1502516		
Owner:	Saberi Andy & Zaida Trs	**Issued:**	08/12/2015
Contractor:	SUSTAINABLE TECHNOLOGIES	**Type:**	Non-Residential Building - Alteration
Construction:		**Sprinklers:**	No
Spec Insp:			
Permits:	B1503424		
Pre-paid Inspections	6		

	General Notes
1a	This Inspection Record Card and the Approved Plans and Approved Construction Management Plan must be readily available at the job site for all inspections. Protect all documents from the weather.
1b	All construction must remain readily visable for inspection until the " OK TO COVER" box on this Inspection Record Card has been signed and dated by the City inspector.
1c	Noise levels and Hours of Construction shall conform with the Zoning Conditions of Approval and Oakland Municipal Code regulations.
1d	Follow all hazardous material testing, worker protection, remediation, and disposal regulations (lead-based paint, asbestos, etc.).
1e	Toilet facilities must be provided on-site for construction workers.
	Permit Expiration & Refunds
2a	A permit may be extended (fee required) for a total of one year from the date of issuance only if no inspections have been performed.
2b	Each permit will expire separately unless each of the Major Inspections (Foundation, First Floor, Frame, Final) is approved by the City Inspector every 6 months (or sooner). An expired permit cannot be reinstated if an inspection has been performed.
2c	A Refund Request must be filed for all refunds. Up to 80% of inspection fees may be refunded if no inspections have been performed. No fees may be refunded more than 180 days after a permit has expired.
	Site Maintenance
3a	"Best Management Practices" must be used daily for dust control and to protect storm water drainage systems (C6).
3b	Jobsite must be cleaned daily of trash and debris and maintained free of graffiti. Construction materials must be neatly stockpiled on-site. Vehicles and equipment must be parked on-site (see 5a below).
	Inspections
4a	To avoid being charged for an inspection, a cancellation must be called-in before 10:00 am on the morning of the scheduled inspection.
4b	For Building (B), Electrical (E), Plumbing (P), Mechanical (M), Grading (GR), Solar (SE, SP), Zoning, and Infrastructure (PX, PZ) inspections, call (510) 238-3444 weekdays 8:00 am to 4:00 pm, Wednesdays 9:30 am to 4:00 pm well in advance. Each permit must be scheduled separately.
4c	For Fire inspections, call (510) 238-3851. For Public Works inspections, call (510) 238-3651. For EBMUD sewer lateral certification inspections, call (510) XXX-XXXX .
4d	When a permit is Greenpoint or LEED energy rated, third-party inspections by a pre-Certified Rater must be also be completed. City inspections are not a substitute for the Certified Rater's inspections and approvals.
	Additional Permits
5a	Separate permits (OB) are required to reserve curbside parking or to obstruct the sidewalk or street in any way (scaffolding, pedestrian canopy, construction fencing, material stockpiles, debris dumpsters, traffic lane closure, etc.).
5b	Separate Fire Prevention Bureau permits are required for fire sprinkler and fire alarm systems.
5c	Separate permits (X, SL, CGS) are required for excavation and repair work in the Public Right-of-Way (sidewalk, curb, gutter, driveway approach, sewer lateral, water and gas piping, storm drain, etc.).

1	FOUNDATION Major Inspection	2	FIRST FLOOR Major Inspection	3	FRAME Major Inspection	4	FINAL Major Inspection	5	SITE
ELECTRICAL		**ELECTRICAL**		**ELECTRICAL**		**ELECTRICAL**		**PRE-CONSTRUCTION**	
E 10	CONSTRUCTION POWER	E 20	UNDERFLOOR	E 30	SUBPANEL/ FEEDER	E 40	SMOKE&CO ALARMS	S 50A	PRE-CON MEETING
E 11	UFER	E 21	CABLE PROTECTION	E 31	WALLS	E 41	EQUIPMENT/ DEVICES	S 50B	OBSTRUCT/ ENCROACH
E 12	UNDERGROUND/ CONDUIT/CABLE	E 22	EXTERIOR WIRING	E 32	BOXMAKE-UP	E 42	UTILITY RELEASE/ TRANSFORMER	S 50C	SURVEY/ ELEVATION
E 13	SINGLE SERVICE			E 33	SUSPENDED CEILING	E 43	ENERGY/ CALGREEN	S 50D	GRADING
E 14	SERVICE RACEWAY			E 38	FRAME O.K.	E 86	FINAL ELECTRICAL	S 50E	CREEK PROTECTION
PLUMBING		**PLUMBING**		**PLUMBING**		**PLUMBING**		S 50F	TREE PROTECTION
P 10	UNDERGROUND	P 20	UNDERFLOOR	P 30	DWV PIPING	P 40	ROOF DRAINS	S 50G	VEGETATION CLEARING
P 11	BACKWATER VALVE	P 21	DRAINS (FIRE/ CONDEN/MISC)	P 31	GAS PIPING	P 41	GASTEST	S 50H	DUST&EROSION CONTROL
P 12	INTERCEPTOR (SO)	P 22	FLOOR RECEPTORS	P 32	WATER PIPING/ SERVICE	P 42	UTILITY RELEASE	S 50J	C6&RAINWATER RUNOFF
P 13	INTERCEPTOR (GREASE)			P 33	TUB/ SHOWER PAN	P 43A	ENERGY CODE/ CALGREEN	S 50K	EXCAVATION SHORING
				P 34	BACKFLOW DEVICES	P 44	CHLORINATION/ SIREPORTS	S 50L	TRAFFIC CONTROL &PARKING
				P 38	FRAME O.K.	P 86	FINAL PLUMBING	S 50M	BLIGHT/NOISE/ TOILET
MECHANICAL		**MECHANICAL**		**MECHANICAL**		**MECHANICAL**		**INFRASTRUCTURE**	
M 10	UNDERGROUND	M 20	UNDERFLOOR DUCTS	M 30	SUSPEND CEILING/ VAV/COILS	M 40	REGISTERS/ GRILLS	PZ 50	SEWER/ BACKWATER
M 11	RADIANT/ COILS	M 21	RADIANT/ COILS	M 31	DAMPER (FIRE, CEILING,SMOKE)	M 41	EQUIPMENT	PZ 51	STORM DRAIN
				M 32	MUAR/ OUTDOOR AIR	M 42	ROOF ACCESS/ GUARDS	PZ 52	DRAINAGE
				M 33	DUCT (TYPE I HOOD)	M 43	ENERGY COMPLY FORMS	PZ 53	HARDSCAPE
				M 34	DETECTORS (DUCT,CO)	M 44	CALGREEN	PZ 54	FIRE ACCESS
				M 35	EXHAUST DUCTS	M 45	SIREPORTS (EQ,BALANCE)	PZ 55	C3 FACILITY
				M 38	FRAME O.K.	M 86	FINAL MECHANICAL	PZ 86	FINAL INFRASTR
BUILDING		**BUILDING**		**BUILDING**		**BUILDING**		**GRADING**	
B 10	SURVEY/ STAKING	B 20	GARAGE PAD ELEVATION	B 30	ROOF FRAMING &NAILING	B 40	DECK/ RETAIN WALL	GR 50	SUBGRADE
B 11	SETBACKS	B 21	FIRST FLOOR ELEVATION	B 31	ZONING ROUGH	B 41	ZONING CONDITIONS	GR 51	PAD
B 12	SP INSPECT REPORT	B 22	SP INSPECT REPORT	B 32	SP INSPECT REPORT	B 42	SP INSPECT REPORT	GR 52	SP INSPECT REPORT
B 13	PIERS	B 23	ACCESSIBILITY	B 33	FRERATED ASSEMBLY	B 43	SIGNAGE	GR 86	FINAL GRADING
B 14	FOOTING/ GRADE BEAM			B 33A	SHAFT CONSTRUCTION	B 44	ACCESSIBILITY	**RIGHT OF WAY**	
B 15	EMBEDMENTS			B 34	SHEAR WALL BRACING	B 45	ENERGY/HERS (FORMS,REPORT)	PX 50	SIDEWALK/ DRIVEWAY
				B 35	SUSPENDED CEILING	B 45A	GPR COMPLIANCE	PX 51	EBMUD LATERAL CERTIFICATION
B 16	SLAB FLOOR/ VAPOR BARRIER	B 24	FLOOR FRAMING	B 35A	FLOOR&WALL FRAMING	B 46	SMOKE&CO ALARMS	PX 86	FINAL ROW
B 17	WP PROTECTION &DRAINAGE	B 25	INSULATION	B 36	INSULATION	B 47	RECYCLING CDSR	**6**	**FIRE MARSHALL**
B 18	MASONRY WALLS			B 37	LATH/ EXTERIOR COVERING			FM 50	FIRE SPRINKLER
				B 37A	WP MEMBRANE			FM 86	FINAL FIRE (510) 238-3851
				B 37B	EGRESS/ SAFETY GLAZING			**7**	**PLANNING**
				B 38	OK TO COVER	B 48	OK TO OCCUPY	ZC 58	ROUGH
				B 39	TUB/ SHOWER WALL			ZC 59A	LANDSCAPE/ HARDSCAPE
				B 39A	GYPSUM WALLBOARD			ZC 59B	SITE IMPROVEMENTS
				B 39B	FIRESAFING	B 86	FINAL BLDG	ZC 86	FINAL ZONING
1	FOUNDATION APPVD	2	FIRST FLOOR APPVD	3	FRAME APPVD	4 98	FINAL CRAFTS	9 99	PROJECT FINAL

9-21-15

BUILDING SERVICES

PERMIT NO. GR1500097

FEE PAID: _____ RECEPIT NO. _____

GRADING PERMIT

1 JOB ADDRESS: 1230 14th Street

2. APPLICANT (PROPERTY OWNER)
NAME: Andy Saberi PHONE _____
ADDRESS 1045 Airport Blvd

3.CONTRACTOR: Sustainable Technologies
LICENSE# 772329 PHONE 523 1122
ADDRESS 1800 Orion St. Alameda 94501

4. CIVIL ENGINEER IN CHARGE: Bob Clark-Riddell
RCE# _____ PHONE _____
ADDRESS ~~1245~~ 1710 Franklin Oakland

5. GRADING PLAN PREPARED BY: Bob Clark-Riddell 510
RCE# C49639 PHONE 435-8664

6. TESTING & INSPECTION BY: Bob Clark-Riddell 510
RCE# C49639 PHONE 435-8664
ADDRESS 1710 Franklin St, Oakland

7.PURPOSE OF GRADING To remove contaminated Soil

8. GRADING OPERATING:
☒ EXCAVATION 35 CUBIC YARDS
☑ FILL 35 CUBIC YARDS

9. EQUIPMENT TO BE USED: John Deer Backhoe

10. EXCESS MATERIAL HAULED TO: Land Fill (Altamont)

11. MATERIAL IMPORTED FROM: Argent Materials

12. HAUL ROUTE: 880 → 14th → 880 Hwy

13. REQUESTED STARTING DATE: 8:30 am
DATE OF COMPLETION: Sept 7th 2015

14. TOTAL ESTIMATED COST OF GRADING WORK:
$18,900.00 (ATTACH ESTIMATE SHEET)

15. EROSION CONTROL PROTECTION TO BE USED:
Waddels on Fence line
Cover Soil Pile

16. ADDITONAL INFORMATION SUBMITTED:
Approval Letter from Alameda Co Enviromental Health + Work Plan

17. BONDS: Total Estimate $18,900.00

	AMOUNT	DATE
☐ PERFORMANCE	$18,900.00	OWED
☐ LABOR AND MATERIALS	$	
☐ EROSION CONTROL	$	

18. APPROVALS:

	BY	DATE
ENGINEERING SERVICES: APPROVED	EE	10/23/15
PLANNING DEPT. CHR - GROUND COVERED		10/15/15
OTHERS		

1230-14th St

The permit issued pursuant to all provisions of Chapter 6, Article 2 of the Oakland Municipal Code, "Grading, Excavations and Fills." Any work within the dedicated public right of way construction in a watercourse, building construction or blasting is subject to additional permits. This permit is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit of arising out of permittee's failure to perform the obligations with respect to this permit. The permittee shall, and by acceptance of the permit agrees to, defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to this permit.

Bob Clark-Riddell — 8/13/15
CIVIL ENGINEER IN CHARGE — DATE

Bob Clark-Riddell — 8/13/15
OWNER, OR OWNER'S AGENT — DATE

APPROVED BY THE DEPUTY DIRECTOR OF PLANNING & BUILDING

BY _____ 10/16/15
DATE

CONDITIONS OF PERMIT

a. This permit is valid only when signed by the Deputy Director of Planning & Building or his authorized representatives.
b. No final inspection and no certificate of occupancy shall be issued before the final statement (s) of the Engineer (s) in charge is/are accepted by the Deputy Director of Planning & Building.
c. This permit shall be available at the grading site at all times during the grading operation.
d. Areas to be graded shall be prepared by stripping and removal of unsuitable and unstable materials, and existing slip surfaces shall be destroyed by benching, where applicable.
e. Grading operations shall be conducted in such manner as to minimize spillage on public streets, and dust and noise. Permittee shall be responsible for cleaning and repair of damage to public rights of way resulting from the grading work.
f. Site to be graded for safe and adequate drainage: and men and equipment shall be provided at the site during storms to prevent damage to other property from flooding or deposition of material washed from site.
g. No grading shall be done which will cause sloughing from or onto adjoining property.
h. This permit void unless work is commenced within 60 days from the granting of this permit or 30 days after the completion date shown on item 13 above, whichever is earlier.
i. Special conditions shall apply as noted on the grading plan dated _____
j. No trees shall be cut without a tree removal permit from Parks and Recreation.
k. Unless otherwise approved, no grading work will be allowed from October 15 To April 15.
l. Special Conditions:
   1. Hours of operation shall be: 7:30AM to 6:00PM on weekdays; 9:00AM to 5:00PM on Saturdays; and no grading on Sundays and holidays.
   2. Grading permit is not valid without approved building, retaining wall, and shoring permits, if required.
   3. Silt fence, fiber roll, hay bales and debris barriers shall be in place and effective at the site during construction.
   4. Provide protection for the street and storm inlets from run-off.
   5. Secure the construction site during extreme weather conditions
   6. Wet weather grading allowed only with an approved wet weather grading permit.
   7. The "Certificate of Completion" letter shall state the conditions of the erosion control measures and the drainage system, including the energy dissipation system.

Applicant Job Copy

J.M. TURNER ENGINEERING, INC.
CONSULTING ENGINEERS
CIVIL ENGINEERING
STRUCTURAL ENGINEERING
CONSTRUCTION ENGINEERING

FORMER SHELL SERVICE STATION
1230 14TH. STREET
OAKLAND, CA

OPEN CUT EXCAVATION
SLOPE STABILITY CALCULATIONS

PANGEA
Environmental Services
1710 Franklin St., Suite 200
Oakland, CA 94612

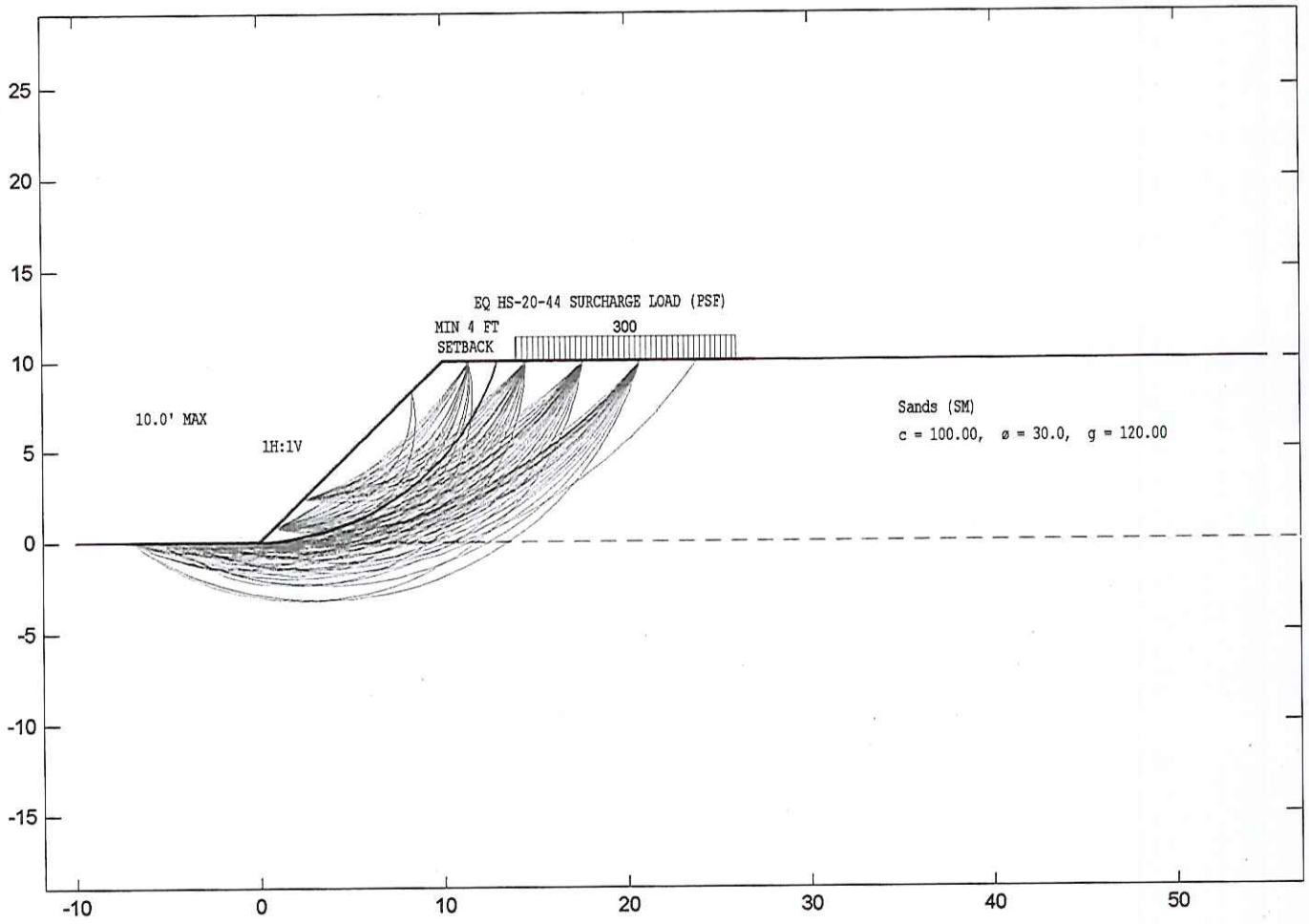
The maximum depth of the proposed excavation shall be 10' max. Soil parameters are based on site specific information provided by Pangea, project #1150.001Boring # SG-6 Soil parameters used are as shown below.
A surcharge load for equipment at the top of the slope is based on a setback distance of 4' from the edge of the excavation.

1) Soil Parameters:
   Cohesion = 100 psf, Internal Angle of Friction = 30 degrees,
   Soil Unit Weight = 120 pcf.

The safety factor for the proposed sloped excavation is 1.49. See attached calculations. Groundwater level shall be maintained at or below the bottom of the excavation.

DATE: 08/27/2015
DESIGN BY: A.J.V.
SHEET NO: 1 of 5
JOB#: 14569-1

1325 COLLEGE AVE. • SANTA ROSA, CA 95404-3909 • (707) 528-4503 FAX (707) 528-4505



GALENA Version 4.02

Analysis: 1
Multiple Stability Analysis
Method: Bishop Simplified
Surface: Circular

Results
Critical (minimum)
Factor of Safety: 1.49

Edited: 27 Aug 2015 *Processed:* 27 Aug 2015

Project: PANGEA Environmental Services Inc.
1230 14th st Oakland, 10' max w/ 1H:1V Slope

File: P:\14000 Series\14500 Series\14569-1\calcs\10ft max 1to 1 1230 14 th street Oakland.gmf

J M Turner Engineering, Inc.

Galena 4.02 Analysis Results — Licensee: J M Turner Engineering, Inc.

Project: PANGEA Environmental Services Inc.
File: P:\14000 Series\14500 Series\14569-...\10ft max 1to 1 1230 14 th street Oakland.gmProcessed: 16:57:10 27 Aug 2015

DATA: Analysis 1 - 1230 14th st Oakland, 10' max w/ 1H:1V Slope

Material and Water Properties (1 material)

Material: 1 (Mohr-Coulomb Isotropic) - Sands (SM)

Cohesion	Phi	UnitWeight	Ru
100.00	30.0	120.00	1.10

Unit weight of water: 62.400 Unit weight of water/medium above ground: 62.400

Material Profiles (1 profile)

Profile: 1 (2 points) Material beneath: 1 - Sands (SM)

-10.00	10.00	55.00	10.00

Slope Surface (4 points)

-10.00	0.00	0.00	0.00	10.00	10.00	55.00	10.00

Phreatic Surface (2 points)

-10.00	0.00	60.00	0.00

Distributed Loads (1 load)

Load	X-Left	Pressure	X-Right	Pressure
1	14.00	300.0	26.00	300.0

Failure Surface

Initial circular surface for critical search defined by: XL,XR,R
Circle centre: XC: -0.42 YC: 13.99 Circle radius: R: 14.00
Intersections: XL: 0.00 YL: 0.00 XR: 13.00 YR: 10.00
Generated failure surface (20 points)

0.00	0.00	0.92	0.06	1.83	0.18	2.74	0.35	3.63	0.59
4.50	0.89	5.36	1.24	6.18	1.65	6.98	2.11	7.75	2.62
8.48	3.18	9.17	3.79	9.82	4.45	10.43	5.14	10.99	5.87
11.50	6.64	11.95	7.44	12.36	8.27	12.71	9.13	13.00	10.00

Variable Restraints

Parameter descriptor:	XL	XR	R
Range of variation:	14.00	28.00	25.00
Trial positions within range:	10	10	10

RESULTS: Analysis 1 - 1230 14th st Oakland, 10' max w/ 1H:1V Slope

Bishop Simplified Method of Analysis - Circular Failure Surface

Critical Failure Circle Search using Multiple Circle Generation Techniques

Factor of Safety for initial failure circle approximation: 1.49
There were: 463 successful analyses from a total of 1001 trial circles
538 analyses aborted due to unacceptable geometry

Critical (minimum) Factor of Safety: 1.49

Negative normal stresses exist on the base of one or more slices - examine slice data and consult the Galena Users' Guide

Circle and Results Summary (Lowest 99 Factor of Safety circles)

Circle	X-Centre	Y-Centre	X-Left	Y-Left	X-Right	Y-Right	Radius	FoS
1	-0.42	13.99	0.00	0.00	13.00	10.00	14.00	1.491
2	-1.33	18.82	0.78	0.78	14.56	10.00	18.17	1.526
3	-3.03	21.37	0.78	0.78	14.56	10.00	20.94	1.527
4	-0.20	20.94	-0.78	0.00	17.67	10.00	20.94	1.531
5	0.13	15.36	-0.78	0.00	14.56	10.00	15.39	1.533
6	-4.70	23.86	0.78	0.78	14.56	10.00	23.72	1.537
7	-0.73	13.30	0.78	0.78	11.44	10.00	12.61	1.547
8	-2.61	27.06	0.78	0.78	17.67	10.00	26.50	1.547
9	0.45	16.16	0.78	0.78	14.56	10.00	15.39	1.547
10	-1.17	24.42	0.78	0.78	17.67	10.00	23.72	1.550
11	-6.33	26.31	0.78	0.78	14.56	10.00	26.50	1.550
12	0.31	21.72	0.78	0.78	17.67	10.00	20.94	1.562
13	-0.25	20.84	-2.33	0.00	17.67	10.00	20.94	1.563
14	1.38	18.04	-0.78	0.00	17.67	10.00	18.17	1.565
15	0.07	15.20	-2.33	0.00	14.56	10.00	15.39	1.575
16	1.26	17.81	-2.33	0.00	17.67	10.00	18.17	1.584
17	-2.84	15.74	0.78	0.78	11.44	10.00	15.39	1.584
18	1.63	10.57	0.78	0.78	11.44	10.00	9.83	1.586
19	-0.37	20.65	-3.89	0.00	17.67	10.00	20.94	1.589

21	-1.75	23.63	-3.89	0.00	17.67	10.00	23.72	1.596
22	1.11	17.47	-3.89	0.00	17.67	10.00	18.17	1.599
23	1.62	9.54	-0.78	0.00	11.44	10.00	9.83	1.605
24	-0.54	20.36	-5.44	0.00	17.67	10.00	20.94	1.609
25	-0.03	14.90	-3.89	0.00	14.56	10.00	15.39	1.610
26	0.91	17.02	-5.44	0.00	17.67	10.00	18.17	1.616
27	-0.91	12.53	-2.33	0.00	11.44	10.00	12.61	1.619
28	-1.74	18.04	-3.89	0.00	14.56	10.00	18.17	1.620
29	-1.87	23.45	-5.44	0.00	17.67	10.00	23.72	1.624
30	2.15	12.27	-0.78	0.00	14.56	10.00	12.61	1.624
31	2.38	13.29	0.78	0.78	14.56	10.00	12.61	1.628
32	-0.74	19.99	-7.00	0.00	17.67	10.00	20.94	1.629
33	0.69	16.46	-7.00	0.00	17.67	10.00	18.17	1.639
34	3.08	14.90	-0.78	0.00	17.67	10.00	15.39	1.640
35	-4.84	18.05	0.78	0.78	11.44	10.00	18.17	1.643
36	-0.17	14.46	-5.44	0.00	14.56	10.00	15.39	1.643
37	2.94	14.46	-2.33	0.00	17.67	10.00	15.39	1.649
38	-2.04	23.20	-7.00	0.00	17.67	10.00	23.72	1.650
39	2.08	11.82	-2.33	0.00	14.56	10.00	12.61	1.652
40	0.03	26.49	-0.78	0.00	20.78	10.00	26.50	1.656
41	1.66	8.98	-2.33	0.00	11.44	10.00	9.83	1.657
42	-1.85	17.81	-5.44	0.00	14.56	10.00	18.17	1.662
43	2.77	13.87	-3.89	0.00	17.67	10.00	15.39	1.664
44	3.47	15.93	0.78	0.78	17.67	10.00	15.39	1.668
45	-0.42	20.29	2.33	2.33	14.56	10.00	18.17	1.671
46	1.36	23.63	-0.78	0.00	20.78	10.00	23.72	1.673
47	1.22	17.68	2.33	2.33	14.56	10.00	15.39	1.673
48	1.85	12.15	2.33	2.33	11.44	10.00	9.83	1.677
49	-0.96	12.27	-3.89	0.00	11.44	10.00	12.61	1.679
50	-0.04	26.40	-2.33	0.00	20.78	10.00	26.50	1.679
51	-3.28	26.24	-7.00	0.00	17.67	10.00	26.50	1.681
52	-2.00	22.82	2.33	2.33	14.56	10.00	20.94	1.683
53	-0.34	13.87	-7.00	0.00	14.56	10.00	15.39	1.684
54	1.24	23.45	-2.33	0.00	20.78	10.00	23.72	1.685
55	2.00	11.15	-3.89	0.00	14.56	10.00	12.61	1.690
56	1.07	23.20	-3.89	0.00	20.78	10.00	23.72	1.693
57	2.60	13.12	-5.44	0.00	17.67	10.00	15.39	1.694
58	-0.17	26.24	-3.89	0.00	20.78	10.00	26.50	1.695
59	0.85	22.87	-5.44	0.00	20.78	10.00	23.72	1.697
60	0.11	25.95	2.33	2.33	17.67	10.00	23.72	1.698
61	-2.01	17.47	-7.00	0.00	14.56	10.00	18.17	1.699
62	-3.56	25.31	2.33	2.33	14.56	10.00	23.72	1.699
63	1.45	23.26	2.33	2.33	17.67	10.00	20.94	1.701
64	0.60	22.47	-7.00	0.00	20.78	10.00	23.72	1.702
65	-1.21	28.59	2.33	2.33	17.67	10.00	26.50	1.702
66	2.37	19.99	-3.89	0.00	20.78	10.00	20.94	1.704
67	2.74	20.65	-0.78	0.00	20.78	10.00	20.94	1.704
68	2.13	19.53	-5.44	0.00	20.78	10.00	20.94	1.705
69	2.58	20.36	-2.33	0.00	20.78	10.00	20.94	1.705
70	-0.34	26.00	-5.44	0.00	20.78	10.00	26.50	1.706
71	-6.79	20.31	0.78	0.78	11.44	10.00	20.94	1.708
72	0.68	27.28	0.78	0.78	20.78	10.00	26.50	1.710
73	1.86	18.98	-7.00	0.00	20.78	10.00	20.94	1.711
74	2.95	14.93	2.33	2.33	14.56	10.00	12.61	1.711
75	-0.57	25.71	-7.00	0.00	20.78	10.00	26.50	1.715
76	-0.27	14.67	2.33	2.33	11.44	10.00	12.61	1.716
77	2.84	20.49	2.33	2.33	17.67	10.00	18.17	1.716
78	-5.11	27.77	2.33	2.33	14.56	10.00	26.50	1.717
79	1.98	24.47	0.78	0.78	20.78	10.00	23.72	1.728
80	-1.04	11.82	-5.44	0.00	11.44	10.00	12.61	1.730
81	1.81	8.01	-3.89	0.00	11.44	10.00	9.83	1.747
82	2.43	12.16	-7.00	0.00	17.67	10.00	15.39	1.751
83	3.80	16.46	-3.89	0.00	20.78	10.00	18.17	1.753
84	1.95	10.22	-5.44	0.00	14.56	10.00	12.61	1.757
85	4.02	17.02	-2.33	0.00	20.78	10.00	18.17	1.758
86	3.56	15.78	-5.44	0.00	20.78	10.00	18.17	1.759
87	4.28	17.60	2.33	2.33	17.67	10.00	15.39	1.762
88	3.32	21.57	0.78	0.78	20.78	10.00	20.94	1.763
89	4.22	17.47	-0.78	0.00	20.78	10.00	18.17	1.767
90	-8.70	22.52	0.78	0.78	11.44	10.00	23.72	1.771
91	3.30	14.96	-7.00	0.00	20.78	10.00	18.17	1.782
92	-1.11	11.15	-7.00	0.00	11.44	10.00	12.61	1.789
93	-2.25	17.02	2.33	2.33	11.44	10.00	15.39	1.791
94	1.47	6.69	-0.78	0.00	8.33	8.33	7.06	1.796
95	1.30	7.81	0.78	0.78	8.33	8.33	7.06	1.799
96	1.99	24.93	-7.00	0.00	23.89	10.00	26.50	1.827
97	-10.60	24.71	0.78	0.78	11.44	10.00	26.50	1.833
98	4.73	18.51	0.78	0.78	20.78	10.00	18.17	1.833
99	3.12	21.46	-7.00	0.00	23.89	10.00	23.72	1.834

Critical Failure Circle

Circle centre: XC: -0.42 YC: 13.99 Circle radius: R: 14.00
Intersections: XL: 0.00 YL: 0.00 XR: 13.00 YR: 10.00
Generated failure surface: (20 points)

0.00	0.00	0.92	0.06	1.83	0.18	2.74	0.35	3.63	0.59
4.50	0.89	5.36	1.24	6.18	1.65	6.98	2.11	7.75	2.62
8.48	3.18	9.17	3.79	9.82	4.45	10.43	5.14	10.99	5.87
11.50	6.64	11.95	7.44	12.36	8.27	12.71	9.13	13.00	10.00

Slice Geometry and Properties (40 slices)

Slice	X-Left	Width	Y-Top	Y-Base	Base Angle	Base Matl	Base Cohesion	Total Weight	PoreWater Force	Normal Stress	Test Factor
1	0.00	0.31	0.15	0.01	3.6	1	100.00	5.29	0.00	12.72	0.98
2	0.31	0.31	0.46	0.03	3.6	1	100.00	15.87	0.00	46.39	0.98
3	0.61	0.31	0.77	0.05	3.6	1	100.00	26.45	0.00	80.07	0.98
4	0.92	0.30	1.07	0.08	7.4	1	100.00	36.40	0.00	105.45	0.96
5	1.23	0.30	1.38	0.12	7.4	1	100.00	46.11	0.00	135.77	0.96
6	1.53	0.30	1.68	0.16	7.4	1	100.00	55.81	0.00	166.10	0.96
7	1.83	0.30	1.99	0.21	11.1	1	100.00	64.40	0.00	186.13	0.95
8	2.14	0.30	2.29	0.27	11.1	1	100.00	73.16	0.00	213.13	0.95
9	2.44	0.30	2.59	0.32	11.1	1	100.00	81.92	0.00	240.12	0.95
10	2.74	0.30	2.89	0.39	14.9	1	100.00	88.88	0.00	255.06	0.94
11	3.04	0.30	3.18	0.47	14.9	1	100.00	96.64	0.00	278.76	0.94
12	3.33	0.30	3.48	0.55	14.9	1	100.00	104.41	0.00	302.46	0.94
13	3.63	0.29	3.78	0.64	18.7	1	100.00	109.52	0.00	312.52	0.93
14	3.92	0.29	4.07	0.74	18.7	1	100.00	116.25	0.00	332.96	0.93
15	4.21	0.29	4.36	0.84	18.7	1	100.00	122.98	0.00	353.39	0.93
16	4.50	0.43	4.72	0.98	22.5	1	100.00	191.27	0.00	363.05	0.93
17	4.93	0.43	5.14	1.15	22.5	1	100.00	204.04	0.00	388.89	0.93
18	5.36	0.41	5.56	1.34	26.2	1	100.00	209.44	0.00	397.52	0.94
19	5.77	0.41	5.98	1.55	26.2	1	100.00	219.84	0.00	418.65	0.94
20	6.18	0.40	6.38	1.76	30.0	1	100.00	221.29	0.00	421.31	0.94
21	6.58	0.40	6.78	1.99	30.0	1	100.00	229.36	0.00	437.84	0.94
22	6.98	0.38	7.17	2.24	33.8	1	100.00	226.93	0.00	434.72	0.96
23	7.36	0.38	7.56	2.49	33.8	1	100.00	232.75	0.00	446.79	0.96
24	7.75	0.37	7.93	2.76	37.6	1	100.00	226.62	0.00	438.06	0.97
25	8.11	0.37	8.30	3.04	37.6	1	100.00	230.32	0.00	445.86	0.97
26	8.48	0.35	8.65	3.34	41.3	1	100.00	220.77	0.00	431.72	0.99
27	8.82	0.35	9.00	3.64	41.3	1	100.00	222.50	0.00	435.44	0.99
28	9.17	0.33	9.33	3.96	45.1	1	100.00	209.92	0.00	416.09	1.02
29	9.50	0.33	9.66	4.28	45.1	1	100.00	209.86	0.00	415.98	1.02
30	9.82	0.18	9.91	4.55	48.9	1	100.00	114.89	0.00	392.42	1.05
31	10.00	0.43	10.00	4.90	48.9	1	100.00	261.94	0.00	370.96	1.05
32	10.43	0.28	10.00	5.32	52.7	1	100.00	156.87	0.00	313.79	1.09
33	10.71	0.28	10.00	5.69	52.7	1	100.00	144.57	0.00	284.62	1.09
34	10.99	0.25	10.00	6.07	56.4	1	100.00	120.30	0.00	234.20	1.14
35	11.24	0.25	10.00	6.45	56.4	1	100.00	108.55	0.00	205.08	1.14
36	11.50	0.23	10.00	6.84	60.2	1	100.00	86.76	0.00	156.07	1.20
37	11.73	0.23	10.00	7.24	60.2	1	100.00	75.77	0.00	127.43	1.20
38	11.95	0.40	10.00	7.86	64.0	1	100.00	103.96	0.00	66.71	1.27
39	12.36	0.35	10.00	8.70	67.8	1	100.00	54.49	0.00	-4.05	1.36
40	12.71	0.29	10.00	9.56	71.5	1	100.00	15.32	0.00	-68.72	1.46

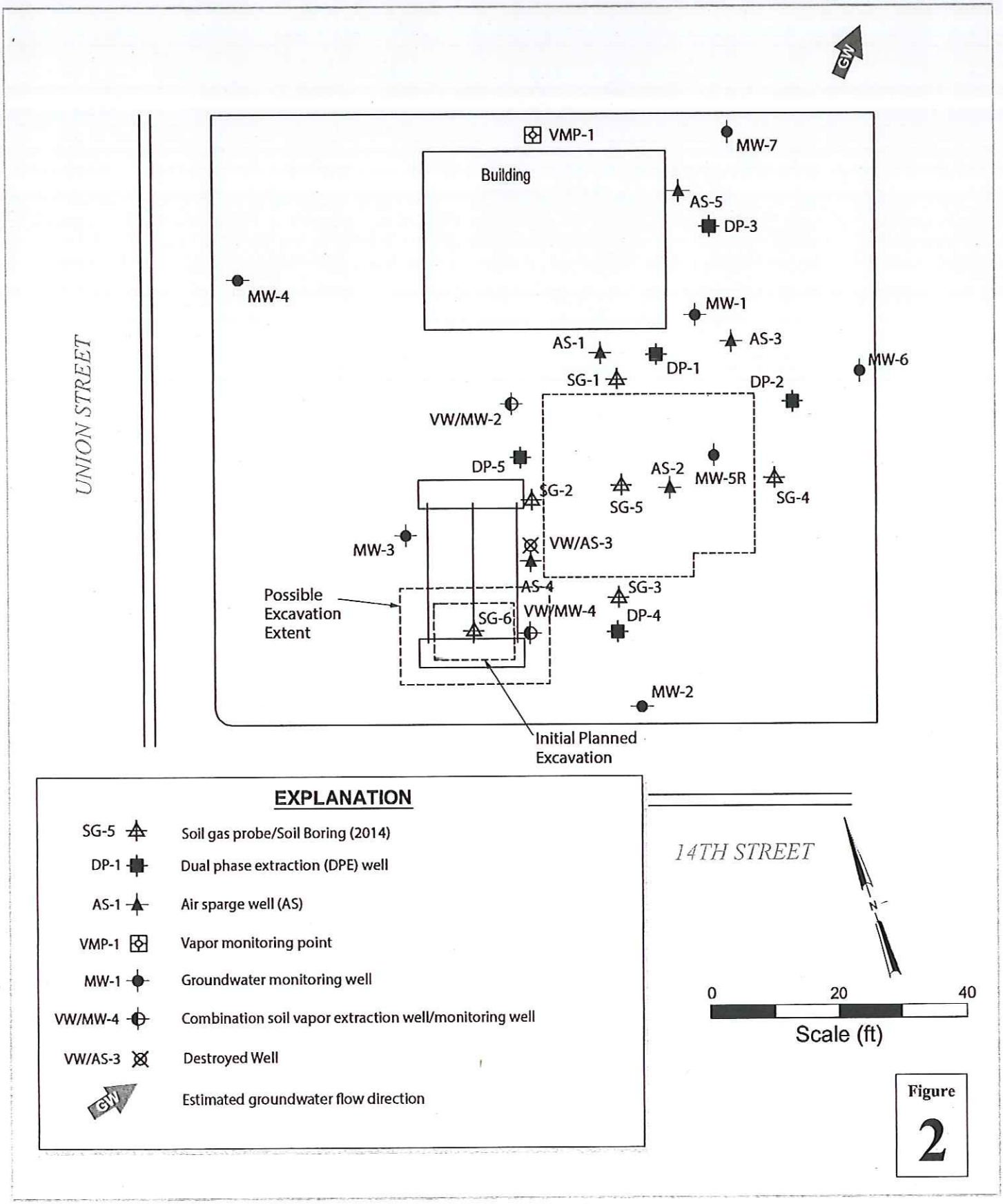


Figure
2

Former Shell Service Station
1230 14th Street
Oakland, California

PANGEA

Proposed Excavation Area

PANGEA
ENVIRONMENTAL SERVICES
1710 FRANKLIN STREET, SUITE 200
OAKLAND, CA 94612

FORMER SHELL SERVICE STATION
1230 14th STREET
OAKLAND, CA

OPEN CUT EXCAVATION PLAN

INDEX:

GENERAL NOTES

1. PROVIDE ACCESS AND BARRICADING PER OSHA REQUIREMENTS.
2. CONTRACTOR TO VERIFY THE LOCATION & SIZE OF ALL EXISTING UNDERGROUND UTILITIES AND/OR PIPES, PRIOR TO COMMENCING THE EXCAVATION, IN ORDER TO ELIMINATE ANY CONFLICTS WITH THE SHORING SYSTEM.
3. THIS PLAN IS DESIGNED STRICTLY FOR PROTECTION OF WORKERS. LAYOUT IS PER CONTRACT DRAWINGS, CONTRACTOR TO VERIFY THAT THERE IS SUFFICIENT CLEARANCE & WORKING SPACE.
4. THIS PLAN IS IN ACCORDANCE WITH FEDERAL AND/OR STATE OSHA REGULATIONS, DESIGN BY A REGISTERED CIVIL ENGINEER.
5. THESE PLANS ARE NOT INTENDED TO SHOW THE METHOD AND MEANS OF EXCAVATION OF THE WORK, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. CONTRACTOR SHALL HAVE A COMPETENT PERSON AT THE SITE WHERE THIS PLAN IS IN USE. HE/SHE SHALL BE RESPONSIBLE MAKING SURE THAT ALL ELEMENTS OF THIS PLAN ARE ADHERED TO AND SHALL NOTIFY THE ENGINEER IF CONDITIONS ENCOUNTERED ARE DIFFERENT THAN ANTICIPATED AND SHOWN ON THIS PLAN. IF CONDITIONS ARE DIFFERENT, THIS PLAN MUST BE MODIFIED TO COVER THOSE CONDITIONS OR A NEW PLAN SHALL BE USED.
7. IF ANY EXISTING STRUCTURE(S), BUILDING(S) OR RAILROAD(S), NOT ALREADY SHOWN ON THE SHORING PLANS, IS (ARE) WITHIN A DISTANCE EQUAL TO THE DEPTH OF EXCAVATION, (FROM EDGE OF EXCAVATION TO STRUCTURE) THE CONTRACTOR SHALL CONTACT J.M. TURNER ENGINEERING FOR PLAN REVIEW AND/OR POSSIBLE PLAN REVISIONS.
8. IF EXISTING PARALLEL UTILITIES, NOT ALREADY SHOWN ON THE SHORING PLANS, ARE 48" IN DIAMETER OR LARGER AND ARE CLOSER THAN 48" FROM THE EDGE OF THE EXCAVATION THE CONTRACTOR SHALL CONTACT J.M. TURNER ENGINEERING FOR PLAN REVIEW AND/OR PLAN REVISIONS.

OPEN CUT NOTES:

9. CONTRACTOR TO VERIFY THAT REQUIRED CLEARANCES ARE OBTAINED.
10. EQUIPMENT MAY OPERATE FROM THE SPOIL PILE SIDE AS LONG AS REQUIRED SETBACK IS MAINTAINED.
11. CONTRACTOR IS REQUIRED TO NOTIFY A REPRESENTATIVE @ J.M. TURNER ENGINEERING @ (707) 528-4503 3 TO 4 DAYS PRIOR TO START OF EXCAVATION TO SCHEDULE A SITE VISIT 1 TO 2 DAYS AFTER START OF EXCAVATION IF DEEMED NECESSARY BY J.M. TURNER ENGINEERING.
12. IF SLOUGHING OR RAVELING OCCURS DECREASE SLOPING GRADIENT TO PREVENT FURTHER RAVELING OR SLOUGHING OF THE SOILS.
13. PROTECT THE SLOPE DURING WET WEATHER, BY USE OF VISQUEEN WITH SAND BAGS OR EQUIVALENT MATERIAL. CONTRACTOR TO COMPLY WITH PROJECTS SWPPP.
14. SOILS ARE BASED ON THE GEOTECHNICAL BORE LOGS (BORING SG-6) PREPARED BY PANGEA ENVIRONMENTAL SERVICES DATED 09/18/14 PROJECT No. 1150.001.

STEEL REQUIREMENTS

- N/A

WELDING REQUIREMENTS

- N/A

TIMBER REQUIREMENTS

- N/A

DEWATERING REQUIREMENTS

- DEWATER INSIDE THE EXCAVATION AS NEEDED TO ALLOW CONSTRUCTION AND/OR REQUIRED WORK OPERATIONS.
- DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR. IF DEWATERING WELLS, SPECIAL SUMP PUMPS OR ANY REQUIREMENTS FOR DEWATERING ARE REQUIRED BY THE REVIEWING AGENCY, CONTRACTOR SHALL ADDRESS THIS IN A SEPARATE SUBMITTAL.
- DEWATERING WELLS MAY BE REQUIRED (AS MANY AS NEEDED) TO MAINTAIN THE WATER LEVEL AT THE BOTTOM OF THE EXCAVATION.

REGISTERED PROFESSIONAL ENGINEER
ADRIANUS J. VERMEULEN
No. 69082
CIVIL
STATE OF CALIFORNIA
8/27/15

REVISIONS	BY

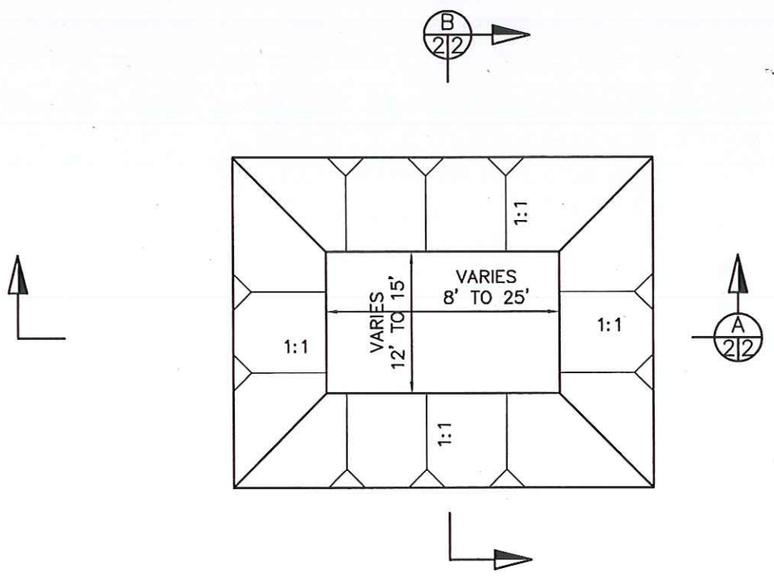
FORMER SHELL SERVICE STATION
1230 14th STREET
OAKLAND, CA
OPEN CUT EXCAVATION PLAN

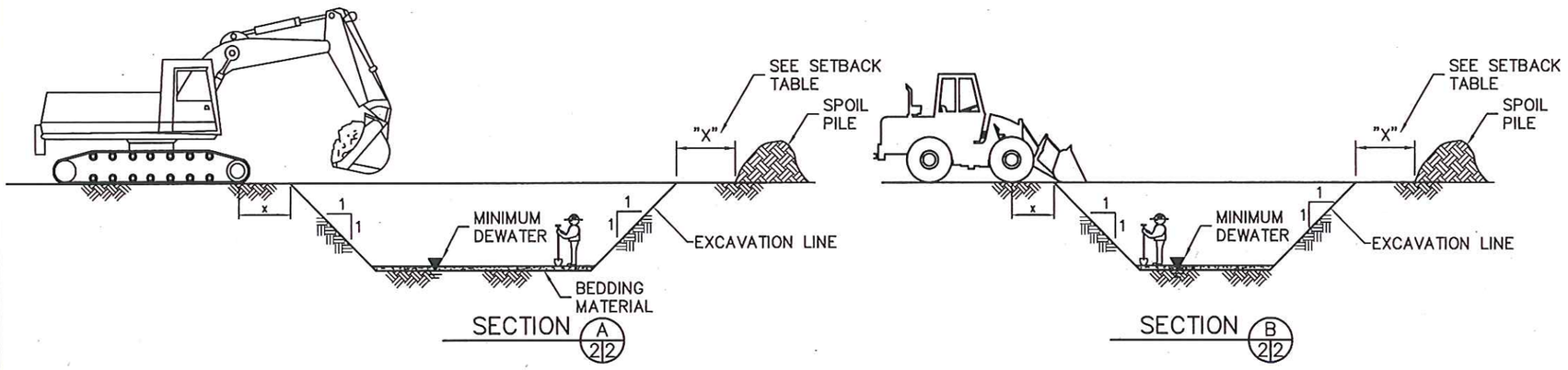
PANGEA
ENVIRONMENTAL SERVICES
1710 FRANKLIN STREET, SUITE 200
OAKLAND, CA 94612

J.M. TURNER ENGINEERING, INC.
CONSULTING ENGINEERS
1325 COLLEGE AVE., SANTA ROSA, CA. 95404
(707) 528-4503 FAX (707) 528-4505

SCALE: VARIES
DATE: 08/27/15
DRAWN BY: A.B.B.
CHECKED BY: A.J.V.
DRAWING NO: 14569-1/ S1
SHEET: 1 OF 2

FORMER SHELL SERVICE STATION
1230 14th STREET
OAKLAND, CA
OPEN CUT EXCAVATION PLAN





SETBACK TABLE

X = SETBACK	
K-RAIL	X=1'
HS 20-44 TRAFFIC	X=4'
SPOIL PILE	X=4'
EXCAVATOR	X=4'
DUMP TRUCK	X=4'
3 CY LOADER	X=4'
5 CY LOADER	X=5'
CRANE TO 30 TON	X=8'
CONCRETE TRUCK	X=10'

REGISTERED PROFESSIONAL ENGINEER
ADRIANUS J. VERMEULEN
No. 69082
CIVIL
STATE OF CALIFORNIA
8/27/15

0 4' 8' 16'

SCALE: 1/8" = 1'-0"

REVISIONS	BY

FORMER SHELL SERVICE STATION
1230 14th STREET
OAKLAND, CA
OPEN CUT EXCAVATION PLAN

PANGEA
ENVIRONMENTAL SERVICES
1710 FRANKLIN STREET, SUITE 200
OAKLAND, CA 94612

J.M. TURNER ENGINEERING, INC.
CONSULTING ENGINEERS
1325 COLLEGE AVE., SANTA ROSA, CA. 95404
(707) 528-4503 FAX (707) 528-4505

SCALE: VARIES
DATE: 08/27/15
DRAWN BY: A.B.B.
CHECKED BY: A.J.V.
DRAWING NO: 14569-1/S2
SHEET: 2 OF 2

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

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

Application Approved on: 11/24/2015 By jamesy

Permit Numbers: W2015-1045 to W2015-1050
Permits Valid from 11/25/2015 to 11/30/2015

Application Id: 1447364245243 **City of Project Site:** Oakland
Site Location: 1230 14th Street
Project Start Date: 11/25/2015 **Completion Date:** 11/30/2015
Assigned Inspector: Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com

Applicant: Pangea Environmental Services - Elizabeth Avery
1710 Franklin Street #200, Oakland, CA 94612 **Phone:** 510-965-5489
Property Owner: Andy Saberi
1045 Airport Blvd, South San Francisco, CA 94080 **Phone:** --
Client: ** same as Property Owner **
Contact: Morgan Gillies **Phone:** 408-910-1783
Cell: --

Total Due: $2382.00
Receipt Number: WR2015-0570 **Total Amount Paid:** $2382.00
Payer Name : Robert Clark-Riddell Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Well Destruction-Monitoring - 6 Wells
Driller: Cascade Drilling, L.P. - Lic #: 938110 - Method: press **Work Total: $2382.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2015-1045	11/24/2015	02/23/2016	AS-3	6.00 in.	1.00 in.	21.00 ft	25.00 ft			
W2015-1046	11/24/2015	02/23/2016	AS-5	6.00 in.	1.00 in.	21.00 ft	25.00 ft			
W2015-1047	11/24/2015	02/23/2016	DP-2	10.00 in.	4.00 in.	7.00 ft	23.00 ft			
W2015-1048	11/24/2015	02/23/2016	DP-3	10.00 in.	4.00 in.	7.00 ft	23.00 ft			
W2015-1049	11/24/2015	02/23/2016	MW-1	8.00 in.	2.00 in.	6.00 ft	22.00 ft			
W2015-1050	11/24/2015	02/23/2016	VW/MW-4	8.00 in.	2.00 in.	4.00 ft	20.00 ft			

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. 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.

3. 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.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

5. 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 and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

6. Applicant shall contact assigned inspector listed on the top of the permit 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. 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.

8. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

9. 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.

10. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

11. Remove the Christy box or similar structure. Tremie Grout with Cement (More than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

12. No work allowed on November 26 and 27th date.

APPENDIX C

Photographs

	
Site Entrance/Exit	Site Entrance/Exit with Rumble Strips
	
CDF Slurry Wall at Southern Boundary	Open excavation with CDF Slurry Wall
	
Excavator backfilling	Excavation partially backfilled

Compaction of backfill with Sheep's Foot Roller

Backfilling near completion

Plastic Covering Site After Excavation Completion

APPENDIX D

Air Monitoring Report & Standard Operating Procedures

Sustainable Technologies Environmental Remediation

1230 14th St Excavation

Air Monitoring Report

Air monitoring Conducted with Multi Rae Plus.

Multi Rae was used to monitor air conditions on site and the perimeter of the site.

The unit was also used to preliminarily test soil samples prior to sending samples to lab.

Staff also had a Four gas Meter on their persons during the construction

Last calibrated on November 16, 2015

Vapors were mitigated during construction. Soil was direct loaded on to trucks to minimize volatiles. When soil was stockpiled between trucks the soil was covered with Visqueen. Periodically throughout the job when needed the material excavated was sprayed with biodegradable formula to suppress odors. Additional Staff was utilized to spray the materials.

Date	Time	CO	VOC	H_2S	LEL	O_2	Initial
11/16	9:30	0	0	0	0	20.9	SAM
11/16	10:35	1	0	0	0	20.9	SAM
11/16	11:00	0	0	0	0	20.9	SAM
11/16	13:00	0	0	0	0	20.9	SAM
11/16	14:00	2	0	0	0	20.9	SAM
11/16	16:00	0	0	0	0	20.9	SAM
11/17	9:00	0	0.2	0	0	20.9	SAM
11/17	9:15	0	64.1	0	0	20.9	SAM
11/17	9:30	0	7	0	0	20.9	SAM
11/17	9:45	0	1.4	0	0	20.9	SAM
11/17	10:15	0	0.2	0	0	20.9	SAM
11/17	10:30	0	0	0	0	20.9	SAM
11/17	10:45	0	6.4	0	0	20.9	SAM
11/17	13:00	0	13	0	0	20.9	SAM
11/17	14:00	0	0	0	0	20.9	SAM

11/18	9:00	0	.2	0	0	20.9	SAM
11/18	10:00	0	0.1	0	0	20.9	SAM
11/18	11:00	0	0.3	0	0	20.9	SAM
11/18	13:30	0	.2	0	0	20.9	SAM
11/18	14:00	0	0	0	0	20.9	SAM
11/19	9:00	0	13	0	0	20.9	SAM
11/19	10:00	0	49	0	0	20.9	SAM
11/19	11:00	0	2.5	0	0	20.9	SAM
11/19	13:00	0	3	0	0	20.9	SAM
11/19	14:00	0	0	0	0	20.9	SAM
11/20	9:30	0	.2	0	0	20.9	SAM
11/20	10:00	2	.3	0	0	20.9	SAM
11/20	10:30	1	0	0	0	20.9	SAM
11/20	10:40	0	1.1	0	0	20.9	SAM
11/20	11:00	0	.2	0	0	20.9	SAM
11/20	12:00	2	.3	0	0	20.9	SAM
11/21	10:00	0	1.1	0	0	20.9	JB
11/21	11:00	0	.8	0	0	20.9	JB
11/21	13:00	0	.4	0	0	20.9	JB
11/21	14:00	0	0	0	0	20.9	JB
11/23	9:00	0	.1	0	0	20.9	JB
11/23	10:00	0	.2	0	0	20.9	JB
11/23	11:00	0	0	0	0	20.9	JB
11/23	13:00	0	2.4	0	0	20.9	JB
11/23	14:00	0	.1	0	0	20.9	JB
11/23	15:00	0	.2	0	0	20.9	JB
11/23	16:00	0	0	0	0	20.9	JB
11/24	9:00	0	0	0	0	20.9	JB
11/24	10:00	0	0	0	0	20.9	JB
11/24	11:00	0	0	0	0	20.9	JB
11/24	13:00	0	0	0	0	20.9	JB
11/24	14:00	0	0	0	0	20.9	JB
11/25	8:00	0	.2	0	0	20.9	SAM
11/25	9:00	0	.1	0	0	20.9	SAM

11/25	10:00	0	0	0	0	20.9	SAM
11/25	11:00	0	0	0	0	20.9	SAM
11/25	13:00	0	0	0	0	20.9	SAM
11/30	9:00	0	0	0	0	20.9	JB
11/30	10:00	0	0	0	0	20.9	JB
11/30	11:00	0	0	0	0	20.9	JB
11/30	13:00	0	0	0	0	20.9	JB
11/30	14:00	0	0	0	0	20.9	JB
12/1	9:00	0	0	0	0	20.9	JB
12/1	10:00	0	0	0	0	20.9	JB
12/1	11:00	0	0	0	0	20.9	JB
12/1	13:00	0	0	0	0	20.9	JB
12/1	14:00	0	0	0	0	20.9	JB
12/2	9:00	0	0	0	0	20.9	JB
12/2	10:00	0	0	0	0	20.9	JB
12/2	11:00	0	0	0	0	20.9	JB
12/2	13:00	0	0	0	0	20.9	JB
12/2	14:00	0	0	0	0	20.9	JB

James Bauer

Construction Manager
Sustainable Technologies
www.sustainabletech.cc
1800 Orion St Suite 101 Alameda, CA 94501
510 523-1122 phone / 510 504-2873 Cell
License #772329 A, C-10, HAZ, HIC, 8(a), MBE, SBE, Bay Area Green Business

STANDARD FIELD PROCEDURES FOR EXCAVATION SAMPLING

During remedial excavation activities compliance sampling is typically required to assess the extent of the contamination remaining in site soil. Pangea has developed standard field procedures for compliance sampling and excavation to provide sample collection, handling and documentation in compliance with State and local regulatory agency regulations.

Soil Sampling

Soil samples are typically collected from the bottom and sidewalls of the excavation. If water is present in the excavation, soil samples are typically collected from the soil/water interface. The soil samples are collected in steam-cleaned brass or steel tubes from either a driven split-spoon type sampler or the bucket of a backhoe or excavator. When a backhoe or excavator is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil. The location and number of samples is determined by the environmental professional and/or regulatory agency representatives overseeing the excavation.

When required or requested before sample collection, Pangea field staff screen soil with a portable photo-ionization detector (PID) to qualitatively assess the presence or absence of volatile contaminants. Excavated soil is typically segregated based on contaminant concentration and stockpiled on site on plastic sheeting. When field observations and/or PID measurements indicate that the contaminant-bearing soil has been satisfactorily removed, Pangea collects soil samples from excavation sidewalls and floor for confirmatory analysis at a State-certified analytic laboratory.

Stockpile Soil Sampling

To facilitate soil disposal at approved offsite facilities, Pangea typically collects one four-point composite soil samples for 200 cubic yards or less of stockpiled soil. If the soil stockpile volume is between 200 and 1,000 cubic yards, two four-point composite samples are typically collected. If soil is segregated based on field observations, at least one four-point composite soil sample is collected for each segregated stockpile. To generate a composite sample, Pangea collects four individual soil samples in steam-cleaned brass or steel tubes by hand, or from either a driven split-spoon type sampler or the bucket of a backhoe or excavator. The sample locations and depths are selected to obtain composite soil sample representative of the stockpile. The four individual soil tubes are composited by the state-certified laboratory. When hand sampling or backhoe/excavator is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil. Additional stockpile sampling procedures may be required to facilitate reuse of soil onsite in accordance with regulatory oversight.

Grab Ground Water Sampling

If groundwater enters the excavation, grab ground water samples are typically collected from the open excavation. Grab groundwater sample can be collected from excavator equipment, disposable Tygon® tubing placed into the excavation, or other appropriate sampling equipment placed into the water. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory.

Sample Storage, Handling and Transport

Upon removal from the sampler or the backhoe, soil samples are trimmed flush, capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Groundwater samples in appropriate containers are labeled, placed in protective bags, and stored on crushed ice at or below 4° C. All samples are transported under chain-of-custody to a State-certified analytic laboratory.

Duplicates and Blanks

Duplicate or blind duplicate samples can be collected, if requested. For water sampling, laboratory-supplied trip blanks can accompany samples to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

STANDARD FIELD PROCEDURES FOR SOIL BORINGS

This document describes Pangea Environmental Services' standard field methods for drilling and sampling soil borings. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality, and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist, scientist or engineer working under the supervision of a California Registered Engineer, California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or hydraulic-push technologies. At least one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples are collected near the water table and at lithologic changes. With hollow-stem drilling, samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the borehole. With hydraulic-push drilling, samples are typically collected using acetate liners. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the split barrel sampler or the acetate tube. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes or cut acetate liners chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

Soil samples collected during drilling will be analyzed in the field for ionizable organic compounds using a photo-ionization detector (PID) with a 10.2 eV lamp. The screening procedure will involve placing an undisturbed soil sample in a sealed container (either a zip-lock bag, glass jar, or a capped soil tube). The container will be set aside, preferably in the sun or warm location. After approximately fifteen minutes, the head space within the container will be tested for total organic vapor, measured in parts per million on a volume to volume basis (ppmv) by the PID. The PID instrument will be calibrated prior to boring using hexane or isobutylene. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Water Sampling

Water samples collected from borings are either collected from the open borehole, from within screened PVC inserted into the borehole, or from a driven Hydropunch-type sampler. Groundwater is typically extracted using a bailer, check valve and/or a peristaltic pump. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory.

Pangea often performs electrical conductivity (EC) logging and/or continuous coring to identify potential water-bearing zones. Hydropunch-type sampling is then performed to provide discrete-depth grab groundwater sampling within potential water-bearing zones for vertical contaminant delineation. Hydropunch-type sampling typically involves driving a cylindrical sheath of hardened steel with an expendable drive point to the desired depth within undisturbed soil. The sheath is retracted to expose a stainless steel or PVC screen that is sealed inside the sheath with Neoprene O-rings to prevent infiltration of formation fluids until the desired depth is attained. The groundwater is extracted using tubing inserted down the center of the rods into the screened sampler.

Duplicates and Blanks

Blind duplicate water samples are collected usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55 gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

APPENDIX E

Laboratory Analytical Reports

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1511589

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Morgan Gillies
Project P.O.:
Project Name: 1150.001; 1230 14th St.

Project Received: 11/12/2015

Analytical Report reviewed & approved for release on 11/13/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001; 1230 14th St.
WorkOrder: 1511589

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

d1	weakly modified or unmodified gasoline is significant
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511589
Date Received:	11/12/15 18:47	**Extraction Method:**	SW5030B
Date Prepared:	11/12/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St.	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
14S-10	1511589-001A	Soil	11/12/2015 14:35	GC3	112861

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**46**	1.0	1	11/13/2015 05:42
MTBE	ND	0.050	1	11/13/2015 05:42
Benzene	ND	0.0050	1	11/13/2015 05:42
Toluene	**0.097**	0.0050	1	11/13/2015 05:42
Ethylbenzene	**0.17**	0.0050	1	11/13/2015 05:42
Xylenes	**0.48**	0.0050	1	11/13/2015 05:42

Surrogates	REC (%)	Limits	
2-Fluorotoluene	83	70-130	11/13/2015 05:42

Analyst(s): IA Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
14S-12	1511589-002A	Soil	11/12/2015 14:50	GC7	112861

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**180**	33	33	11/13/2015 12:47
MTBE	ND	1.7	33	11/13/2015 12:47
Benzene	**0.19**	0.17	33	11/13/2015 12:47
Toluene	**0.68**	0.17	33	11/13/2015 12:47
Ethylbenzene	**2.0**	0.17	33	11/13/2015 12:47
Xylenes	**5.6**	0.17	33	11/13/2015 12:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	99	70-130	11/13/2015 12:47

Analyst(s): IA Analytical Comments: d1

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511589
Date Received:	11/12/15 18:47	**Extraction Method:**	SW5030B
Date Prepared:	11/12/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St.	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
14S-15	**1511589-003A**	**Soil**	**11/12/2015 15:15**	**GC3**	**112861**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**35**	1.0	1	11/13/2015 06:42
MTBE	ND	0.050	1	11/13/2015 06:42
Benzene	**0.021**	0.0050	1	11/13/2015 06:42
Toluene	**0.13**	0.0050	1	11/13/2015 06:42
Ethylbenzene	**0.23**	0.0050	1	11/13/2015 06:42
Xylenes	**0.61**	0.0050	1	11/13/2015 06:42

Surrogates	REC (%)	Limits	
2-Fluorotoluene	82	70-130	11/13/2015 06:42

Analyst(s): IA Analytical Comments: d7,d9

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1511589 **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Morgan Gillies
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: mgillies@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: 1150.001; 1230 14th St.

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: **1 day;**

Date Received: **11/12/2015**
Date Printed: **11/12/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1511589-001	14S-10	Soil	11/12/2015 14:35	☐	A											
1511589-002	14S-12	Soil	11/12/2015 14:50	☐	A											
1511589-003	14S-15	Soil	11/12/2015 15:15	☐	A											

Test Legend:

1	G-MBTEX_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.
QC Level: LEVEL 2
Work Order: 1511589
Project: 1150.001; 1230 14th St.
Client Contact: Morgan Gillies
Date Received: 11/12/2015
Comments:
Contact's Email: mgillies@pangeaenv.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511589-001A	14S-10	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/12/2015 14:35	1 day		☐	
1511589-002A	14S-12	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/12/2015 14:50	1 day		☐	
1511589-003A	14S-15	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/12/2015 15:15	1 day		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

RUSH 1511589

McCAMPBELL ANALYTICAL, INC.

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Pittsburg, CA 94565
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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Morgan Gillies Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: mgillies@pangeaenv.com
Tele: (510) 836-3702 Fax: (510) 836-3709
Project #: 1150.001 Project Name: 1230 14th St
Project Location: 1230 14th St., Oakland
Sampler Signature:

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/MTBE	Analysis Request: 5 Oxygenates (8260)	Other	Comments
145-10		11/12	1435	1	SS Sleeve		X				X				X			Strong Odor
145-12		"	1450	1	"		X				X				X			" "
145-15		"	1515	1	"		X				X				X			Slight Odor

Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date: 11/12	Time: 1939	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 6.5
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS: Strong odor

VOAS O&G METALS OTHER
PRESERVATION pH<2

Filter Samples for Metals analysis: Yes / No

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Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**
Date and Time Received: **11/12/2015 6:47:40 PM**

Project Name: **1150.001; 1230 14th St.**
LogIn Reviewed by: Agustina Venegas

WorkOrder №: **1511589** Matrix: Soil
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 6.5°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1511514

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Morgan Gillies
Project P.O.:
Project Name: 1150.001; 1230 14th St

Project Received: 11/11/2015

Analytical Report reviewed & approved for release on 11/12/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001; 1230 14th St
WorkOrder: 1511514

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d2	heavier gasoline range compounds are significant (aged gasoline?)
d9	no recognizable pattern

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511514
Date Received:	11/11/15 15:24	**Extraction Method:**	SW5030B
Date Prepared:	11/11/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
F-10	1511514-001A	Soil	11/11/2015 10:40	GC7	112759

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**64**	10	10	11/12/2015 12:23
MTBE	ND	0.50	10	11/12/2015 12:23
Benzene	**0.093**	0.050	10	11/12/2015 12:23
Toluene	**0.17**	0.050	10	11/12/2015 12:23
Ethylbenzene	**0.49**	0.050	10	11/12/2015 12:23
Xylenes	**1.9**	0.050	10	11/12/2015 12:23

Surrogates	REC (%)	Limits	
2-Fluorotoluene	89	70-130	11/12/2015 12:23

Analyst(s): IA Analytical Comments: d2,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
F-E-9.5	1511514-002A	Soil	11/11/2015 11:30	GC7	112759

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**2700**	500	500	11/12/2015 00:22
MTBE	ND	25	500	11/12/2015 00:22
Benzene	ND	2.5	500	11/12/2015 00:22
Toluene	**6.7**	2.5	500	11/12/2015 00:22
Ethylbenzene	**9.7**	2.5	500	11/12/2015 00:22
Xylenes	**45**	2.5	500	11/12/2015 00:22

Surrogates	REC (%)	Limits	
2-Fluorotoluene	112	70-130	11/12/2015 00:22

Analyst(s): IA Analytical Comments: d2

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511514
Date Received:	11/11/15 15:24	**Extraction Method:**	SW5030B
Date Prepared:	11/11/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9.5	**1511514-003A**	**Soil**	**11/11/2015 13:35**	**GC7**	**112759**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**7800**	500	500	11/12/2015 02:20
MTBE	ND	25	500	11/12/2015 02:20
Benzene	**13**	2.5	500	11/12/2015 02:20
Toluene	**96**	2.5	500	11/12/2015 02:20
Ethylbenzene	**96**	2.5	500	11/12/2015 02:20
Xylenes	**610**	2.5	500	11/12/2015 02:20

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorotoluene	417	S	70-130	11/12/2015 02:20

Analyst(s): IA Analytical Comments: d2,d9,c4

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511514
Date Prepared:	11/10/15	**BatchID:**	112759
Date Analyzed:	11/12/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	1150.001; 1230 14th St	**Sample ID:**	MB/LCS-112759

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.678	0.40	0.60	-	113	70-130
MTBE	ND	0.0854	0.050	0.10	-	85	70-130
Benzene	ND	0.0996	0.0050	0.10	-	100	70-130
Toluene	ND	0.102	0.0050	0.10	-	102	70-130
Ethylbenzene	ND	0.106	0.0050	0.10	-	106	70-130
Xylenes	ND	0.343	0.0050	0.30	-	114	70-130
Surrogate Recovery							
2-Fluorotoluene	0.124	0.119		0.10	124	119	70-130

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1511514 **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Morgan Gillies
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: mgillies@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: 1150.001; 1230 14th St

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TATs: **1 day; 5 days;**

Date Received: **11/11/2015**
Date Printed: **11/12/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1511514-001	F-10	Soil	11/11/2015 10:40	☐	A	A										
1511514-002	F-E-9.5	Soil	11/11/2015 11:30	☐	A											
1511514-003	S-9.5	Soil	11/11/2015 13:35	☐	A											

Test Legend:

1	G-MBTEX_S	2	PREDF REPORT	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Briana Cutino

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC. **QC Level:** LEVEL 2 **Work Order:** 1511514
Project: 1150.001; 1230 14th St **Client Contact:** Morgan Gillies **Date Received:** 11/11/2015
Comments: **Contact's Email:** mgillies@pangeaenv.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511514-001A	F-10	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/11/2015 10:40	1 day		☐	
1511514-002A	F-E-9.5	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/11/2015 11:30	1 day		☐	
1511514-003A	S-9.5	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/11/2015 13:35	1 day		☐	
1511514-004A	S-3	Soil		1	Stainless Steel tube 2"x6"	☐	11/11/2015 13:40			☑	
1511514-005A	N-5	Soil		1	Stainless Steel tube 2"x6"	☐	11/11/2015 13:45			☑	
1511514-006A	N-10	Soil		1	Stainless Steel tube 2"x6"	☐	11/11/2015 14:00			☑	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1511514

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Morgan Gillies Bill To: Pangea

Company: Pangea Environmental Services, Inc.

1710 Franklin Street, Suite 200, Oakland, CA 94612

E-Mail: mgillies@pangeaenv.com

Tele: (510) 836-3702 Fax: (510) 836-3709

Project #: 1150.001 Project Name: 1230 14th St

Project Location: 1230 14th St., Oakland

Sampler Signature:

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/MTBE	Analysis Request: 5 Oxygenates (8260)	Other	Comments
F-10		11/11	1040	1	Stove		X				X				X			
F-E-9.5			1130	1	"		X				X				X			
S-9.5			1335	1	"		X				X				X			
S-3			1340	1	"		X				X				X			HOLD
N-5			1345	1	"		X				X				X			HOLD
N-10			1400	1	"		X				X				X			HOLD

Relinquished By:	Date:	Time:	Received By:
	11-11-15	1425	
Relinquished By:	Date:	Time:	Received By:
	11-11-15	1525	
Relinquished By:	Date:	Time:	Received By:
			11/11/15 15:20

ICE/t°_____ COMMENTS:
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER
PRESERVATION_____ pH<2_____

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Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**
Date and Time Received: **11/11/2015 3:24:49 PM**

Project Name: **1150.001; 1230 14th St**
LogIn Reviewed by: Briana Cutino

WorkOrder №: **1511514** Matrix: Soil
Carrier: Bernie Cummins (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 2.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1511568

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Morgan Gillies
Project P.O.:
Project Name: 1150.001; 1230 14th St

Project Received: 11/12/2015

Analytical Report reviewed & approved for release on 11/17/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001; 1230 14th St
WorkOrder: 1511568

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

d2	heavier gasoline range compounds are significant (aged gasoline?)
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511568
Date Received:	11/12/15 15:50	**Extraction Method:**	SW5030B
Date Prepared:	11/12/15-11/17/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-2	1511568-001A	Soil	11/11/2015 14:30	GC19	112834

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/13/2015 14:55
MTBE	ND	0.050	1	11/13/2015 14:55
Benzene	ND	0.0050	1	11/13/2015 14:55
Toluene	ND	0.0050	1	11/13/2015 14:55
Ethylbenzene	ND	0.0050	1	11/13/2015 14:55
Xylenes	ND	0.0050	1	11/13/2015 14:55

Surrogates	REC (%)	Limits	
2-Fluorotoluene	120	70-130	11/13/2015 14:55

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
W-4	1511568-002A	Soil	11/11/2015 14:35	GC19	113013

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/17/2015 14:48
MTBE	ND	0.050	1	11/17/2015 14:48
Benzene	ND	0.0050	1	11/17/2015 14:48
Toluene	ND	0.0050	1	11/17/2015 14:48
Ethylbenzene	ND	0.0050	1	11/17/2015 14:48
Xylenes	**0.021**	0.0050	1	11/17/2015 14:48

Surrogates	REC (%)	Limits	
2-Fluorotoluene	121	70-130	11/17/2015 14:48

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511568
Date Received:	11/12/15 15:50	**Extraction Method:**	SW5030B
Date Prepared:	11/12/15-11/17/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
12N-10	1511568-003A	Soil	11/11/2015 15:05	GC7	112834

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**430**	33	33	11/13/2015 15:26
MTBE	ND	1.7	33	11/13/2015 15:26
Benzene	ND	0.17	33	11/13/2015 15:26
Toluene	**0.78**	0.17	33	11/13/2015 15:26
Ethylbenzene	**1.9**	0.17	33	11/13/2015 15:26
Xylenes	**17**	0.17	33	11/13/2015 15:26

Surrogates	REC (%)	Limits	
2-Fluorotoluene	108	70-130	11/13/2015 15:26

Analyst(s): IA Analytical Comments: d2,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
12N-13	1511568-004A	Soil	11/12/2015 11:25	GC7	112834

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1400**	50	50	11/13/2015 05:15
MTBE	ND	2.5	50	11/13/2015 05:15
Benzene	**2.1**	0.25	50	11/13/2015 05:15
Toluene	**8.3**	0.25	50	11/13/2015 05:15
Ethylbenzene	**24**	0.25	50	11/13/2015 05:15
Xylenes	**110**	0.25	50	11/13/2015 05:15

Surrogates	REC (%)	Limits	
2-Fluorotoluene	117	70-130	11/13/2015 05:15

Analyst(s): IA Analytical Comments: d2,d9

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511568
Date Received:	11/12/15 15:50	**Extraction Method:**	SW5030B
Date Prepared:	11/12/15-11/17/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
12N-15	1511568-005A	Soil	11/12/2015 11:40	GC7	112834

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**110**	20	20	11/13/2015 15:56
MTBE	ND	1.0	20	11/13/2015 15:56
Benzene	**0.36**	0.10	20	11/13/2015 15:56
Toluene	**0.43**	0.10	20	11/13/2015 15:56
Ethylbenzene	**1.5**	0.10	20	11/13/2015 15:56
Xylenes	**7.4**	0.10	20	11/13/2015 15:56

Surrogates	REC (%)	Limits	
2-Fluorotoluene	109	70-130	11/13/2015 15:56

Analyst(s): IA Analytical Comments: d2,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
12W-10	1511568-006A	Soil	11/12/2015 12:50	GC7	112870

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/13/2015 13:18
MTBE	ND	0.050	1	11/13/2015 13:18
Benzene	ND	0.0050	1	11/13/2015 13:18
Toluene	ND	0.0050	1	11/13/2015 13:18
Ethylbenzene	ND	0.0050	1	11/13/2015 13:18
Xylenes	ND	0.0050	1	11/13/2015 13:18

Surrogates	REC (%)	Limits	
2-Fluorotoluene	102	70-130	11/13/2015 13:18

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511568
Date Received:	11/12/15 15:50	**Extraction Method:**	SW5030B
Date Prepared:	11/12/15-11/17/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
12N-17	1511568-007A	Soil	11/12/2015 13:20	GC3	112834

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**11**	1.0	1	11/13/2015 07:41
MTBE	ND	0.050	1	11/13/2015 07:41
Benzene	**0.043**	0.0050	1	11/13/2015 07:41
Toluene	**0.077**	0.0050	1	11/13/2015 07:41
Ethylbenzene	**0.14**	0.0050	1	11/13/2015 07:41
Xylenes	**0.69**	0.0050	1	11/13/2015 07:41

Surrogates	REC (%)	Limits	
2-Fluorotoluene	88	70-130	11/13/2015 07:41

Analyst(s): IA Analytical Comments: d2,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
12W-13	1511568-008A	Soil	11/12/2015 13:50	GC7	112834

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**3.4**	1.0	1	11/13/2015 14:56
MTBE	ND	0.050	1	11/13/2015 14:56
Benzene	ND	0.0050	1	11/13/2015 14:56
Toluene	**0.0080**	0.0050	1	11/13/2015 14:56
Ethylbenzene	ND	0.0050	1	11/13/2015 14:56
Xylenes	ND	0.0050	1	11/13/2015 14:56

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	70-130	11/13/2015 14:56

Analyst(s): IA Analytical Comments: d7

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511568
Date Prepared:	11/12/15	**BatchID:**	112834
Date Analyzed:	11/12/15	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	1150.001; 1230 14th St	**Sample ID:**	MB/LCS-112834 1511568-004AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.501	0.40	0.60	-	84	70-130
MTBE	ND	0.0907	0.050	0.10	-	91	70-130
Benzene	ND	0.0926	0.0050	0.10	-	93	70-130
Toluene	ND	0.0876	0.0050	0.10	-	88	70-130
Ethylbenzene	ND	0.0944	0.0050	0.10	-	94	70-130
Xylenes	ND	0.296	0.0050	0.30	-	99	70-130
Surrogate Recovery							
2-Fluorotoluene	0.111	0.111		0.10	111	111	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		160	NR	NR	-	NR	
MTBE	NR	NR		ND<2.5	NR	NR	-	NR	
Benzene	NR	NR		2.1	NR	NR	-	NR	
Toluene	NR	NR		8.3	NR	NR	-	NR	
Ethylbenzene	NR	NR		24	NR	NR	-	NR	
Xylenes	NR	NR		110	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

(Cont.)

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511568
Date Prepared:	11/12/15	**BatchID:**	112870
Date Analyzed:	11/13/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	1150.001; 1230 14th St	**Sample ID:**	MB/LCS-112870

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.602	0.40	0.60	-	100	70-130
MTBE	ND	0.0849	0.050	0.10	-	85	70-130
Benzene	ND	0.101	0.0050	0.10	-	101	70-130
Toluene	ND	0.102	0.0050	0.10	-	102	70-130
Ethylbenzene	ND	0.105	0.0050	0.10	-	105	70-130
Xylenes	ND	0.336	0.0050	0.30	-	112	70-130
Surrogate Recovery							
2-Fluorotoluene	0.119	0.120		0.10	119	120	70-130

(Cont.)

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511568
Date Prepared:	11/16/15	**BatchID:**	113013
Date Analyzed:	11/17/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	1150.001; 1230 14th St	**Sample ID:**	MB/LCS-113013 1511688-013AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.572	0.40	0.60	-	95	70-130
MTBE	ND	0.0874	0.050	0.10	-	87	70-130
Benzene	ND	0.104	0.0050	0.10	-	104	70-130
Toluene	ND	0.105	0.0050	0.10	-	105	70-130
Ethylbenzene	ND	0.107	0.0050	0.10	-	107	70-130
Xylenes	ND	0.341	0.0050	0.30	-	114	70-130
Surrogate Recovery							
2-Fluorotoluene	0.124	0.122		0.10	124	122	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		ND<8	NR	NR	-	NR	
MTBE	NR	NR		ND<1	NR	NR	-	NR	
Benzene	NR	NR		ND<0.1	NR	NR	-	NR	
Toluene	NR	NR		ND<0.1	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND<0.1	NR	NR	-	NR	
Xylenes	NR	NR		ND<0.1	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1511568 **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Morgan Gillies
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: mgillies@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: 1150.001; 1230 14th St

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TATs: **1 day; 3 days; 5 days;**
Date Received: **11/12/2015**
Date Printed: **11/12/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1511568-001	E-2	Soil	11/11/2015 14:30	☐	A	A										
1511568-002	W-4	Soil	11/11/2015 14:35	☐	A											
1511568-003	12N-10	Soil	11/11/2015 15:05	☐	A											
1511568-004	12N-13	Soil	11/12/2015 11:25	☐	A											
1511568-005	12N-15	Soil	11/12/2015 11:40	☐	A											
1511568-006	12W-10	Soil	11/12/2015 12:50	☐	A											
1511568-007	12N-17	Soil	11/12/2015 13:20	☐	A											
1511568-008	12W-13	Soil	11/12/2015 13:50	☐	A											

Test Legend:

1	G-MBTEX_S	2	PREDF REPORT	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

Comments: samples 001 & 002 on a 3day all others on 1day TAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.
QC Level: LEVEL 2
Work Order: 1511568
Project: 1150.001; 1230 14th St
Client Contact: Morgan Gillies
Date Received: 11/12/2015
Comments: samples 001 & 002 on a 3day all others on 1day TAT.
Contact's Email: mgillies@pangeaenv.com

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511568-001A	E-2	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/11/2015 14:30	3 days		☐	
1511568-002A	W-4	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/11/2015 14:35	3 days		☐	
1511568-003A	12N-10	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/11/2015 15:05	1 day		☐	
1511568-004A	12N-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/12/2015 11:25	1 day		☐	
1511568-005A	12N-15	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/12/2015 11:40	1 day		☐	
1511568-006A	12W-10	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/12/2015 12:50	1 day		☐	
1511568-007A	12N-17	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/12/2015 13:20	1 day		☐	
1511568-008A	12W-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/12/2015 13:50	1 day		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1511568

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☒ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Morgan Gillies Bill To: Pangea

Company: Pangea Environmental Services, Inc.

1710 Franklin Street, Suite 200, Oakland, CA 94612

E-Mail: mgillies@pangeaenv.com

Tele: (510) 836-3702 Fax: (510) 836-3709

Project #: 1150.001 Project Name: 1230 14th St

Project Location: 1230 14th St., Oakland

Sampler Signature:

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/MTBE	Analysis Request: 5 Oxygenates (8260)	Other	Comments
E-2		11/11	1430	1	SS		X								X	X		72 Hr TAT
W-4		11/11	1435	1	Sleeve													72 Hr. TAT
12N-10		11/11	1505															24 hr TAT
12N-13		11/12	1125															24 hr TAT
12N-15			1140															24 hr. TAT
12W-10			1250															24 hr TAT
12N-17			1320															24 hr. TAT
12W-13			1350															24 hr. TAT

Relinquished By:	Date:	Time:	Received By:
	11-12-11	1410	
Relinquished By:	Date:	Time:	Received By:
	11-12-11	1540	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 7.6
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS: Strong Odor on samples except E-2, W-4 and 12N-17

VOAS O&G METALS OTHER
PRESERVATION pH<2

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**
Date and Time Received: **11/12/2015 3:50:17 PM**

Project Name: **1150.001; 1230 14th St**
LogIn Reviewed by: Maria Venegas

WorkOrder №: **1511568** Matrix: Soil
Carrier: Bernie Cummins (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 7.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1511514 A

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Morgan Gillies
Project P.O.:
Project Name: 1150.001; 1230 14th St

Project Received: 11/11/2015

Analytical Report reviewed & approved for release on 11/16/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001; 1230 14th St
WorkOrder: 1511514

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d2	heavier gasoline range compounds are significant (aged gasoline?)
d9	no recognizable pattern

McCampbell Analytical, Inc.
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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511514
Date Received:	11/11/15 15:24	**Extraction Method:**	SW1311 (ZHETCLP)/SW5030B
Date Prepared:	11/13/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE (ZHETCLP)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-9.5	1511514-003A	Soil	11/11/2015 13:35	GC3	112942

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	0.50	10	11/16/2015 16:17
MTBE	---	0.050	10	11/16/2015 16:17
Benzene	ND	0.0050	10	11/16/2015 16:17
Toluene	---	0.0050	10	11/16/2015 16:17
Ethylbenzene	---	0.0050	10	11/16/2015 16:17
Xylenes	---	0.0050	10	11/16/2015 16:17
Surrogates	**REC (%)**	**Limits**		
aaa-TFT	108	70-130		11/16/2015 16:17

Analyst(s): IA Analytical Comments: d2

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511514
Date Prepared:	11/13/15	**BatchID:**	112942
Date Analyzed:	11/16/15	**Extraction Method:**	SW1311
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/L
Project:	1150.001; 1230 14th St	**Sample ID:**	MB/LCS-112942

QC Summary Report for SW8021B/8015Bm (ZHETCLP)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.0620	0.040	0.060	-	103	70-130
MTBE	ND	0.00902	0.0050	0.010	-	90	70-130
Benzene	ND	0.00988	0.00050	0.010	-	99	70-130
Toluene	ND	0.00997	0.00050	0.010	-	100	70-130
Ethylbenzene	ND	0.0101	0.00050	0.010	-	101	70-130
Xylenes	ND	0.0307	0.00050	0.030	-	102	70-130
Surrogate Recovery							
aaa-TFT	0.00946	0.00949		0.010	95	95	70-130

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1511514 A **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Morgan Gillies
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: mgillies@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: 1150.001; 1230 14th St

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: **1 day;**

Date Received: **11/11/2015**
Date Add-On: **11/13/2015**
Date Printed: **11/13/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1511514-003	S-9.5	Soil	11/11/2015 13:35	☐	A											

Test Legend:

1	GMBTEX_ZHETCLP_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Briana Cutino

Add-On Prepared By: Jena Alfaro

Comments: TCLP Benzene added to 003 on RUSH TAT 11/13/15

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.
Project: 1150.001; 1230 14th St
Comments: TCLP Benzene added to 003 on RUSH TAT 11/13/15

QC Level: LEVEL 2
Client Contact: Morgan Gillies
Contact's Email: mgillies@pangeaenv.com

Work Order: 1511514
Date Received: 11/11/2015
Date Add-On: 11/13/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511514-003A	S-9.5	Soil	TPH(g)-MBTEX (ZHETCLP)	1	Stainless Steel tube 2"x6"	11/11/2015 13:35	1 day*		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1511514

McCAMPBELL ANALYTICAL, INC.
1534 Willow Pass Road
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Telephone: (925) 252-9262 Fax: (925) 252-9269

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Morgan Gillies | Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: mgillies@pangeaenv.com
Tele: (510) 836-3702 | Fax: (510) 836-3709
Project #: 1150.001 | Project Name: 1230 14th St
Project Location: 1230 14th St., Oakland
Sampler Signature: [signature]

SAMPLE ID	LOCATION (Field Point Name)	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	5 Oxygenates (8260)	ZHE TCLP Benzene 11/13/15 D	Comments
F-10		11/11	1040	1	Sleeve		X				X				X			
F-E-9.5		↓	1130	1	"		X				X				X			
S-9.5		↓	1335	1	"		X				X				X		⊗	
S-3		↓	1340	1	"		X				X				~~X~~			HOLD
N-5		↓	1345	1	"		X				X				~~X~~			HOLD
N-10		↓	1400	1	"		X				X				~~X~~			HOLD

Comments: Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
[signature]	11-11-15	1425	[signature]
[signature]	11-11-15	1515	[signature] 11/11/15 15:20

ICE/t°______
GOOD CONDITION______
HEAD SPACE ABSENT______
DECHLORINATED IN LAB______
APPROPRIATE CONTAINERS______
PRESERVED IN LAB______

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION______ pH<2______

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1511717 A

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Morgan Gillies
Project P.O.:
Project Name: 1150.001; 1230 14th St

Project Received: 11/17/2015

Analytical Report reviewed & approved for release on 11/23/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001; 1230 14th St
WorkOrder: 1511717

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001; 1230 14th St
WorkOrder: 1511717

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d2	heavier gasoline range compounds are significant (aged gasoline?)
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Received:	11/17/15 15:38	**Extraction Method:**	SW1311 (ZHETCLP)/SW5030B
Date Prepared:	11/20/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE (ZHETCLP)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
N-13	1511717-006A	Soil	11/17/2015 12:30	GC3	113249

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	---	5.0	100	11/21/2015 14:10
MTBE	---	0.50	100	11/21/2015 14:10
Benzene	**0.17**	0.050	100	11/21/2015 14:10
Toluene	---	0.050	100	11/21/2015 14:10
Ethylbenzene	---	0.050	100	11/21/2015 14:10
Xylenes	---	0.15	100	11/21/2015 14:10

Surrogates	REC (%)	Limits	
aaa-TFT	103	70-130	11/21/2015 14:10

Analyst(s): IA Analytical Comments: d1

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Prepared:	11/20/15	**BatchID:**	113249
Date Analyzed:	11/21/15	**Extraction Method:**	SW1311
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/L
Project:	1150.001; 1230 14th St	**Sample ID:**	MB/LCS-113249

QC Summary Report for SW8021B/8015Bm (ZHETCLP)

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.0601	0.040	0.060	-	100	70-130
MTBE	ND	0.00998	0.0050	0.010	-	100	70-130
Benzene	ND	0.0103	0.00050	0.010	-	103	70-130
Toluene	ND	0.0104	0.00050	0.010	-	104	70-130
Ethylbenzene	ND	0.0106	0.00050	0.010	-	106	70-130
Xylenes	ND	0.0320	0.0015	0.030	-	107	70-130
Surrogate Recovery							
aaa-TFT	0.00878	0.00896		0.010	88	90	70-130

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1511717 A **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Morgan Gillies
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: mgillies@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: 1150.001; 1230 14th St

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: **1 day;**

Date Received:
Date Logged: **11/17/2015**
Date Add-On: **11/18/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1511717-006	N-13	Soil	11/17/2015 12:30	☐	A											

Test Legend:

1	GMBTEX_ZHETCLP_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Add-On Prepared By: Jena Alfaro

Comments: 1 Day & 5 Day. RUSH Benzene TCLP 11/18/15 1D TAT

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.
Project: 1150.001; 1230 14th St
Comments: 1 Day & 5 Day. RUSH Benzene TCLP 11/18/15 1D TAT

QC Level: LEVEL 2
Client Contact: Morgan Gillies
Contact's Email: mgillies@pangeaenv.com

Work Order: 1511717
Date Logged: 11/17/2015
Date Add-On: 11/18/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511717-006A	N-13	Soil	TPH(g)-MBTEX (ZHETCLP)	1	Stainless Steel tube 2"x6"	11/17/2015 12:30	3 days*		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

RUSH 151717

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☒ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Morgan Gillies Bill To: Pangea

Company: Pangea Environmental Services, Inc.

1710 Franklin Street, Suite 200, Oakland, CA 94612

E-Mail: mgillies@pangeaenv.com

Tele: (510) 836-3702 Fax: (510) 836-3709

Project #: 1150.001 Project Name: 1230 14th St

Project Location: 1230 14th St., Oakland

Sampler Signature:

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/MTBE	Analysis Request: 5 Oxygenates (8260)	Analysis Request: TCLP Benzene 1118/15	Other	Comments
SE-3		11/17	1015	1	SS Glass		X				X				X				5 day TAT
SE-9			1025				X				X				X				5 day TAT
E-9			1120				X				X				X				Rush
E-13			1130				X				X				X				Rush
N-9			1150				X				X				X				Rush
N-13			1230				X				X				X		☒		Rush
SW-9			1225				X				X				X				5 day TAT
SW-3			1230				X				X				X				5 day TAT
NN-9			1245				X				X				X				Rush
NN-13			1255				X				X				X				Rush
NNN-9			1345				X				X				X				Rush
NNN-13		↓	1400	↓	↓		X				X				X				Rush

Relinquished By:	Date:	Time:	Received By:
	11-17-15	1905	
Relinquished By:	Date:	Time:	Received By:
	11-17-15	1520	Agustina V.
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.9

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

COMMENTS:

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

Filter Samples for Metals analysis: Yes / No

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1511717

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Morgan Gillies
Project P.O.:
Project Name: 1150.001; 1230 14th St

Project Received: 11/17/2015

Analytical Report reviewed & approved for release on 11/23/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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"When Quality Counts"

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001; 1230 14th St
WorkOrder: 1511717

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001; 1230 14th St
WorkOrder: 1511717

Analytical Qualifiers

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d2	heavier gasoline range compounds are significant (aged gasoline?)
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Received:	11/17/15 15:38	**Extraction Method:**	SW5030B
Date Prepared:	11/17/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-9	1511717-003A	Soil	11/17/2015 11:20	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/17/2015 20:43
MTBE	ND	0.050	1	11/17/2015 20:43
Benzene	ND	0.0050	1	11/17/2015 20:43
Toluene	ND	0.0050	1	11/17/2015 20:43
Ethylbenzene	ND	0.0050	1	11/17/2015 20:43
Xylenes	ND	0.015	1	11/17/2015 20:43

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	70-130	11/17/2015 20:43

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-13	1511717-004A	Soil	11/17/2015 11:30	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/17/2015 21:13
MTBE	ND	0.050	1	11/17/2015 21:13
Benzene	ND	0.0050	1	11/17/2015 21:13
Toluene	ND	0.0050	1	11/17/2015 21:13
Ethylbenzene	ND	0.0050	1	11/17/2015 21:13
Xylenes	ND	0.015	1	11/17/2015 21:13

Surrogates	REC (%)	Limits	
2-Fluorotoluene	106	70-130	11/17/2015 21:13

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Received:	11/17/15 15:38	**Extraction Method:**	SW5030B
Date Prepared:	11/17/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
N-9	1511717-005A	Soil	11/17/2015 11:50	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**2600**	100	100	11/17/2015 22:42
MTBE	ND	5.0	100	11/17/2015 22:42
Benzene	ND	0.50	100	11/17/2015 22:42
Toluene	**2.3**	0.50	100	11/17/2015 22:42
Ethylbenzene	**6.4**	0.50	100	11/17/2015 22:42
Xylenes	**200**	1.5	100	11/17/2015 22:42

Surrogates	REC (%)	Limits	
2-Fluorotoluene	87	70-130	11/17/2015 22:42

Analyst(s): IA Analytical Comments: d2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
N-13	1511717-006A	Soil	11/17/2015 12:30	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**7200**	500	500	11/18/2015 10:40
MTBE	ND	25	500	11/18/2015 10:40
Benzene	**34**	2.5	500	11/18/2015 10:40
Toluene	**300**	2.5	500	11/18/2015 10:40
Ethylbenzene	**120**	2.5	500	11/18/2015 10:40
Xylenes	**730**	7.5	500	11/18/2015 10:40

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorotoluene	830	S	70-130	11/18/2015 10:40

Analyst(s): IA Analytical Comments: d1,c4

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Received:	11/17/15 15:38	**Extraction Method:**	SW5030B
Date Prepared:	11/17/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
NN-9	1511717-009A	Soil	11/17/2015 12:45	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/17/2015 21:43
MTBE	ND	0.050	1	11/17/2015 21:43
Benzene	ND	0.0050	1	11/17/2015 21:43
Toluene	ND	0.0050	1	11/17/2015 21:43
Ethylbenzene	ND	0.0050	1	11/17/2015 21:43
Xylenes	ND	0.015	1	11/17/2015 21:43

Surrogates	REC (%)	Limits	
2-Fluorotoluene	107	70-130	11/17/2015 21:43

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
NN-13	1511717-010A	Soil	11/17/2015 12:55	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**410**	100	100	11/18/2015 02:40
MTBE	ND	5.0	100	11/18/2015 02:40
Benzene	ND	0.50	100	11/18/2015 02:40
Toluene	**0.58**	0.50	100	11/18/2015 02:40
Ethylbenzene	**3.2**	0.50	100	11/18/2015 02:40
Xylenes	**7.4**	1.5	100	11/18/2015 02:40

Surrogates	REC (%)	Limits	
aaa-TFT	107	70-130	11/18/2015 02:40

Analyst(s): IA Analytical Comments: d2

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Received:	11/17/15 15:38	**Extraction Method:**	SW5030B
Date Prepared:	11/17/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
NNN-9	1511717-011A	Soil	11/17/2015 13:45	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/17/2015 22:12
MTBE	ND	0.050	1	11/17/2015 22:12
Benzene	ND	0.0050	1	11/17/2015 22:12
Toluene	ND	0.0050	1	11/17/2015 22:12
Ethylbenzene	ND	0.0050	1	11/17/2015 22:12
Xylenes	ND	0.015	1	11/17/2015 22:12

Surrogates	REC (%)	Limits	
2-Fluorotoluene	110	70-130	11/17/2015 22:12

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
NNN-13	1511717-012A	Soil	11/17/2015 14:00	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**15**	1.0	1	11/17/2015 19:14
MTBE	ND	0.050	1	11/17/2015 19:14
Benzene	ND	0.0050	1	11/17/2015 19:14
Toluene	**0.039**	0.0050	1	11/17/2015 19:14
Ethylbenzene	ND	0.0050	1	11/17/2015 19:14
Xylenes	**0.029**	0.015	1	11/17/2015 19:14

Surrogates	REC (%)	Limits	
2-Fluorotoluene	99	70-130	11/17/2015 19:14

Analyst(s): IA Analytical Comments: d7,d9

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Received:	11/17/15 15:38	**Extraction Method:**	SW5030B
Date Prepared:	11/17/15-11/18/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SE-3	1511717-001A	Soil	11/07/2015 10:15	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/18/2015 02:10
MTBE	ND	0.050	1	11/18/2015 02:10
Benzene	ND	0.0050	1	11/18/2015 02:10
Toluene	ND	0.0050	1	11/18/2015 02:10
Ethylbenzene	ND	0.0050	1	11/18/2015 02:10
Xylenes	ND	0.015	1	11/18/2015 02:10

Surrogates	REC (%)	Limits	
2-Fluorotoluene	105	70-130	11/18/2015 02:10

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SE-9	1511717-002A	Soil	11/17/2015 10:25	GC19	113067

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/18/2015 18:30
MTBE	ND	0.050	1	11/18/2015 18:30
Benzene	ND	0.0050	1	11/18/2015 18:30
Toluene	ND	0.0050	1	11/18/2015 18:30
Ethylbenzene	ND	0.0050	1	11/18/2015 18:30
Xylenes	ND	0.015	1	11/18/2015 18:30

Surrogates	REC (%)	Limits	
2-Fluorotoluene	107	70-130	11/18/2015 18:30

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Received:	11/17/15 15:38	**Extraction Method:**	SW5030B
Date Prepared:	11/17/15-11/18/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001; 1230 14th St	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SW-9	1511717-007A	Soil	11/17/2015 12:25	GC19	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/18/2015 19:01
MTBE	ND	0.050	1	11/18/2015 19:01
Benzene	ND	0.0050	1	11/18/2015 19:01
Toluene	ND	0.0050	1	11/18/2015 19:01
Ethylbenzene	ND	0.0050	1	11/18/2015 19:01
Xylenes	ND	0.015	1	11/18/2015 19:01

Surrogates	REC (%)	Limits	
2-Fluorotoluene	116	70-130	11/18/2015 19:01

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SW-3	1511717-008A	Soil	11/17/2015 12:30	GC7	113038

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	11/18/2015 04:09
MTBE	ND	0.050	1	11/18/2015 04:09
Benzene	ND	0.0050	1	11/18/2015 04:09
Toluene	ND	0.0050	1	11/18/2015 04:09
Ethylbenzene	ND	0.0050	1	11/18/2015 04:09
Xylenes	ND	0.015	1	11/18/2015 04:09

Surrogates	REC (%)	Limits	
2-Fluorotoluene	109	70-130	11/18/2015 04:09

Analyst(s): IA

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511717
Date Prepared:	11/17/15	**BatchID:**	113038
Date Analyzed:	11/17/15	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	1150.001; 1230 14th St	**Sample ID:**	MB/LCS-113038 1511717-012AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.522	0.40	0.60	-	87	70-130
MTBE	ND	0.0896	0.050	0.10	-	90	70-130
Benzene	ND	0.0977	0.0050	0.10	-	98	70-130
Toluene	ND	0.0906	0.0050	0.10	-	91	70-130
Ethylbenzene	ND	0.0972	0.0050	0.10	-	97	70-130
Xylenes	ND	0.307	0.015	0.30	-	102	70-130
Surrogate Recovery							
2-Fluorotoluene	0.111	0.115		0.10	111	115	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		ND	NR	NR	-	NR	
MTBE	NR	NR		ND	NR	NR	-	NR	
Benzene	NR	NR		ND	NR	NR	-	NR	
Toluene	NR	NR		0.039	NR	NR	-	NR	
Ethylbenzene	NR	NR		ND	NR	NR	-	NR	
Xylenes	NR	NR		0.029	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1511717 **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Morgan Gillies
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: mgillies@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: 1150.001; 1230 14th St

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TATs: **1 day; 5 days;**

Date Received: **11/17/2015**
Date Printed: **11/18/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1511717-001	SE-3	Soil	11/7/2015 10:15	☐	A	A										
1511717-002	SE-9	Soil	11/17/2015 10:25	☐	A											
1511717-003	E-9	Soil	11/17/2015 11:20	☐	A											
1511717-004	E-13	Soil	11/17/2015 11:30	☐	A											
1511717-005	N-9	Soil	11/17/2015 11:50	☐	A											
1511717-006	N-13	Soil	11/17/2015 12:30	☐	A											
1511717-007	SW-9	Soil	11/17/2015 12:25	☐	A											
1511717-008	SW-3	Soil	11/17/2015 12:30	☐	A											
1511717-009	NN-9	Soil	11/17/2015 12:45	☐	A											
1511717-010	NN-13	Soil	11/17/2015 12:55	☐	A											
1511717-011	NNN-9	Soil	11/17/2015 13:45	☐	A											
1511717-012	NNN-13	Soil	11/17/2015 14:00	☐	A											

Test Legend:

1	G-MBTEX_S	2	PREDF REPORT	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments: 1 Day & 5 Day

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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"When Quality Counts"

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.
QC Level: LEVEL 2
Work Order: 1511717
Project: 1150.001; 1230 14th St
Client Contact: Morgan Gillies
Date Received: 11/17/2015
Comments: 1 Day & 5 Day
Contact's Email: mgillies@pangeaenv.com

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511717-001A	SE-3	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/7/2015 10:15	5 days		☐	
1511717-002A	SE-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 10:25	5 days		☐	
1511717-003A	E-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 11:20	1 day		☐	
1511717-004A	E-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 11:30	1 day		☐	
1511717-005A	N-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 11:50	1 day		☐	
1511717-006A	N-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 12:30	1 day		☐	
1511717-007A	SW-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 12:25	5 days		☐	
1511717-008A	SW-3	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 12:30	5 days		☐	
1511717-009A	NN-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 12:45	1 day		☐	
1511717-010A	NN-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 12:55	1 day		☐	
1511717-011A	NNN-9	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 13:45	1 day		☐	
1511717-012A	NNN-13	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	11/17/2015 14:00	1 day		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

RUSH 151717

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☒ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Morgan Gillies Bill To: Pangea

Company: Pangea Environmental Services, Inc.

1710 Franklin Street, Suite 200, Oakland, CA 94612

E-Mail: mgillies@pangeaenv.com

Tele: (510) 836-3702 Fax: (510) 836-3709

Project #: 1150.001 Project Name: 1230 14th St

Project Location: 1230 14th St., Oakland

Sampler Signature:

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/MTBE	5 Oxygenates (8260)	Other	Comments
SE-3		11/17	1015	1	SS Glass	X					X				X			5 day TAT
SE-9			1025			X					X				X			5 day TAT
E-9			1120			X					X				X			Rush
E-13			1130			X					X				X			Rush
N-9			1150			X					X				X			Rush
N-13			1230			X					X				X			Rush
SW-9			1225			X					X				X			5 day TAT
SW-3			1230			X					X				X			5 day TAT
NN-9			1245			X					X				X			Rush
NN-13			1255			X					X				X			Rush
NNN-9			1345			X					X				X			Rush
NNN-13			1400			X					X				X			Rush

Relinquished By:	Date: 11-17-15	Time: 1405	Received By:
Relinquished By:	Date: 11-17-15	Time: 1520	Received By: Agustina V.
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.9 COMMENTS:

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

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Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**
Date and Time Received: **11/17/2015 3:38:59 PM**

Project Name: **1150.001; 1230 14th St**
LogIn Reviewed by: Agustina Venegas

WorkOrder №: **1511717** Matrix: Soil
Carrier: Bernie Cummins (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 3.9°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1511B03

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Bob Clark-Riddell
Project P.O.:
Project Name: 1150.001.425; 1230 14th

Project Received: 11/25/2015

Analytical Report reviewed & approved for release on 12/02/2015 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001.425; 1230 14th
WorkOrder: 1511B03

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

d2	heavier gasoline range compounds are significant (aged gasoline?)
e7	oil range compounds are significant
e11	stoddard solvent/mineral spirit (?)

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Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: 1150.001.425; 1230 14th
WorkOrder: 1511B03

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511B03
Date Received:	11/25/15 17:06	**Extraction Method:**	SW5030B
Date Prepared:	11/25/15	**Analytical Method:**	SW8021B/8015Bm
Project:	1150.001.425; 1230 14th	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
NNN-3'	1511B03-001A	Soil	11/25/2015 11:00	GC7	113423

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**260**	20	20	11/29/2015 00:49
MTBE	ND	1.0	20	11/29/2015 00:49
Benzene	ND	0.10	20	11/29/2015 00:49
Toluene	**0.46**	0.10	20	11/29/2015 00:49
Ethylbenzene	**0.34**	0.10	20	11/29/2015 00:49
Xylenes	**12**	0.30	20	11/29/2015 00:49

Surrogates	REC (%)	Limits	
2-Fluorotoluene	121	70-130	11/29/2015 00:49

Analyst(s): IA Analytical Comments: d2

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511B03
Date Received:	11/25/15 17:06	**Extraction Method:**	SW3550B
Date Prepared:	11/25/15	**Analytical Method:**	SW8015B
Project:	1150.001.425; 1230 14th	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
NNN-3'	**1511B03-001A**	**Soil**	**11/25/2015 11:00**	**GC9a**	**113452**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**140**	1.0	1	11/27/2015 20:24

Surrogates	REC (%)	Limits	
C9	111	70-130	11/27/2015 20:24

Analyst(s): TK Analytical Comments: e11,e7

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511B03
Date Prepared:	11/25/15	**BatchID:**	113423
Date Analyzed:	11/25/15 - 12/1/15	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	1150.001.425; 1230 14th	**Sample ID:**	MB/LCS-113423 1511A66-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.518	0.40	0.60	-	86	70-130
MTBE	ND	0.0934	0.050	0.10	-	93	70-130
Benzene	ND	0.0953	0.0050	0.10	-	95	70-130
Toluene	ND	0.0926	0.0050	0.10	-	93	70-130
Ethylbenzene	ND	0.0967	0.0050	0.10	-	97	70-130
Xylenes	ND	0.308	0.015	0.30	-	103	70-130
Surrogate Recovery							
2-Fluorotoluene	0.129	0.116		0.10	129	116	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.527	0.521	0.60	ND	88	87	70-130	1.14	20
MTBE	0.0692	0.0719	0.10	ND	69,F1	72	70-130	3.82	20
Benzene	0.0942	0.102	0.10	ND	94	102	70-130	8.40	20
Toluene	0.0963	0.104	0.10	ND	96	105	70-130	8.15	20
Ethylbenzene	0.101	0.109	0.10	ND	101	109	70-130	7.78	20
Xylenes	0.320	0.345	0.30	ND	107	115	70-130	7.49	20
Surrogate Recovery									
2-Fluorotoluene	0.114	0.122	0.10		114	122	70-130	7.06	20

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1511B03
Date Prepared:	11/25/15	**BatchID:**	113452
Date Analyzed:	11/27/15 - 11/30/15	**Extraction Method:**	SW3550B
Instrument:	GC6B, GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	1150.001.425; 1230 14th	**Sample ID:**	MB/LCS-113452

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.4	1.0	40	-	98	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	26.5	26.0		25	106	104	70-130

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1511B03 **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: BRiddell@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: 1150.001.425; 1230 14th

Bill to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT: 3 days;

Date Received: **11/25/2015**
Date Logged: **11/25/2015**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1511B03-001	NNN-3'	Soil	11/25/2015 11:00	☐	A	A										

Test Legend:

1	G-MBTEX_S	2	TPH(D)_S	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.
QC Level: LEVEL 2
Work Order: 1511B03
Project: 1150.001.425; 1230 14th
Client Contact: Bob Clark-Riddell
Date Logged: 11/25/2015
Comments:
Contact's Email: BRiddell@pangeaenv.com

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1511B03-001A	NNN-3'	Soil	SW8015B (Diesel)	1	Stainless Steel tube 2"x6"	☐	11/25/2015 11:00	3 days		☐	
			SW8021B/8015Bm (G/MBTEX)			☐		3 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

RUSH 1511B03

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAY
EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Bob Clark Riddell Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: briddell@pangeaenv.com
Tele: (510) 435-8664 Fax: (510) 836-3709
Project #: 1150.001.425 Project Name: 1230 14TH
Project Location:
Sampler Signature: Bob Clark Riddell

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015) w/ Silica Gel Cleanup	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)	Other	Other	Other	Comments
NW-3'		11/25/15	12:00	1	TUBE	X					X				X	X																		Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
Bob Clark Riddell	11/25/15	12:45	
	11-25-15	1626	Christina V.

ICE/t° 3°
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION pH<2

McCampbell Analytical, Inc.
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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**Pangea Environmental Svcs., Inc.**	Date and Time Received:	**11/25/2015 16:20**
Project Name:	**1150.001.425; 1230 14th**	Date Logged:	**11/25/2015**
WorkOrder №:	**1511B03** Matrix: Soil	Received by:	Agustina Venegas
Carrier:	Bernie Cummins (MAI Courier)	Logged by:	Agustina Venegas

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 3°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

** NOTE: If the "No" box is checked, see comments below.*

Comments:

APPENDIX F

Waste Disposal Manifests

PANGEA

Soil Disposal Summary - Former Shell-branded Service Station, 1230 14th St., Oakland, California

Belshire Report	Dates	Tons	Facility
#1	November 18 - 23	461.45	Recology Hay Road Landfill, Vacaville
#2	November 21 - 25	133.82	Recology Hay Road Landfill, Vacaville
#3	November 23 - 25	89.30	Recology Hay Road Landfill, Vacaville
	Total Tons:	**684.57**	

elshire
vironmental services, inc.

Belshire Environmental Tonnage Report

Site Information	Disposal Facility
Shell/Sabek, Inc. 1230 14th Street Oakland, CA 94607 EPA ID:	Recology Hay Rd. Landfill 6426 Hay Rd Vacaville, CA 95687 EPA ID:

Shipment Description	
Non-Hazardous Soil	Profile #: J6596

Shipment Date	Manifest No	Ticket No	Load	Cleanup	Tons
11/18/2015	720260	1489935	1		21.67
11/18/2015	720261	1489899	2		24.89
11/18/2015	720263	1489827	3		27.61
11/18/2015	720262	1489864	4		28.69
11/18/2015	720234	1490029	5		26.17
11/18/2015	720259	1490014	6		29.55
11/18/2015	720258	1490086	7		17.11
11/18/2015	720257	1490116	8		23.06
11/19/2015	720249	1490307	9		27.15
11/19/2015	720250	1490319	10		26.24
11/19/2015	720251	1490262	11		23.52
11/19/2015	720252	1490249	12		24.53
11/19/2015	720253	1490247	13		23.13
11/19/2015	720254	1490237	14		28.48
11/19/2015	720255	1490191	15		25.76
11/19/2015	720256	1490198	16		29.70
11/23/2015	720237	1491736	17		27.67
11/23/2015	720239	1491525	18		26.52
Project Tonnage Total					**461.45**

10933

NO. 720260

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other _____
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other _____
Quantity 1 Volume 18 YDS

WASTE DESCRIPTION NON-HAZARDOUS SOIL
GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile #6596 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: Carlos Chinchilla | Signature | Month 11 Day 18 Year 201[illegible]

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: DOMINGUES & SON | Phone# 408 661-0326

Transporter 1 Printed/Typed Name: AMRIK S. BOLINA | Signature | Month 11 Day 18 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name | Signature | Month 11 Day 18 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1489935

Date: 11/18/2015
Time: 11:47:00 - 12:08:24
INBOUND

Truck: 10933
Customer: 53084/BELSHIRE ENVIRONMENTS
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 73960 LBS Scale
Tare: 30620 LBS Scale
Net: 43340 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	21.67 TONS		

Signature

Terri Wilson

9484

NON-HAZARDOUS WASTE DATA FORM

NO. 720261

BEST # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume 18 YDS

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

	COMPONENTS OF WASTE	PPM	%
1.	SOIL		99-100%
2.	TPH		<1%
3.			
4.			

Waste Profile #6596 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: Carlos Chinchillas | Signature | Month 11 Day 18 Year 2004

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Balderas Transportation | Phone#

Transporter 1 Printed/Typed Name: Michael Balderas | Signature | Month 11 Day 18 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name | Signature | Month 11 Day 18 Year 04

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1489899

Date: 11/18/2015
Time: 11:15:13 - 11:34:26
INBOUND

Truck: 9484
Customer: 53884/BELSHIRE ENVIRONMENTLicense: 9E17657
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross:	81820 LBS	Scale
Tare:	32040 LBS	Scale
Net:	49780 LBS	

Scale: H2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	24.89 TONS		

Terri Wilson

Signature

WMSTR4-LO 9/09 Printed on recycled paper

NO. 720263

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-838-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume 18 YDS

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile #6598 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: Carlos Chinchillas | Signature | Month 11 | Day 18 | Year 2015

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: HERNANDEZ TRUCKING | Phone# 209-604-5256

Transporter 1 Printed/Typed Name: Herman Hernandez | Signature | Month 11 | Day 18 | Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name | Signature | Month 11 | Day 18 | Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville,/CA 95687
Phone: (707)-678-4718

Ticket: 1489827
Date: 11/10/2015
Time:09:54:05 - 09:54:10
INBOUND

Truck: 8165
Customer: 53884/BELSHIRE ENVIRONMENTLicense: UP07171
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 87780 LBS Scale
Tare: 32560 LBS PreTar
Net: 55220 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	27.61 TONS		

Heaton

Signature

Marion Allen

MSTR4-LO 9/09 Printed on recycled paper

10932

NO. 720262

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume 18 YDS

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile #6598 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☒ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: Carlos Chinchillas | Signature | Month 11 Day 18 Year 20[illegible]

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: MG TRUKING | Phone# (650) 7937013

Transporter 1 Printed/Typed Name: ARTURO B | Signature | Month 11 Day 18 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: MATT A[illegible] | Signature | Month 11 Day 18 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1489864

Date: 11/18/2015
Time:10:20:37 - 10:34:44
INBOUND

Truck: 10932
Customer: 53884/BELSHIRE ENVIRONMENT
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 89440 LBS Scale
Tare: 32060 LBS Scale
Net: 57380 LBS
Scale: M2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	28.69 TONS		

Terri Wilson

Signature

NO. 720234

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume 17 yrds

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile #8598 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name On Behalf of Generator James Bauer Signature [signature] Month 11 Day 17 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name MG TRUCKING Phone# (650) 793-7013

Transporter 1 Printed/Typed Name ARTURO B Signature [signature] Month 11 Day 18 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name Phone#

Transporter 2 Printed/Typed Name Signature Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name [illegible] Signature [signature] Month 11 Day 18 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
5426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1490029
Date: 11/18/2015
Time: 14:15:15 - 14:15:27
INBOUND

Truck: 10932
Customer: 53884/BELSHIRE ENVIRONMENTS
Origin: OAK/Oakland

Profile: 8596/Belshire Env.Serv/Andy 8

Gross: 84400 LBS Scale
Tare: 32060 LBS PreTar
Net: 52340 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	26.17 TONS		

Recology
Hay Road

Marion Allen

Signature

8165

NO. 720259

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other ______
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other ______
Quantity 1 Volume 18 YDS

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

	COMPONENTS OF WASTE	PPM	%
1.	SOIL		99-100%
2.	TPH		<1%
3.			
4.			

Waste Profile #6596 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: Carlos Chinchillas Signature: [signature] Month 1 Day 18 Year 2015

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: HERNANDEZ TRUCKING Phone# 209-604-5256

Transporter 1 Printed/Typed Name: Hector Hernandez Signature: [signature] Month 1 Day 18 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name Phone#

Transporter 2 Printed/Typed Name Signature Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: [handwritten name] Signature: [signature] Month 1 Day 18 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1490014

Date: 11/18/2015
Time: 13:37:59 - 14:00:19
INBOUND

Truck: 9165
Customer: 52884/BELSHIRE ENVIRONMENTLicense: UP07171
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 90840 LBS Scale
Tare: 31740 LBS Scale
Net: 59100 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	29.55 TONS		

Signature

Terri Wilson

NO. 720258

NON-HAZARDOUS WASTE DATA FORM

BEST # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-838-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume 18 YDS

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile #6596 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER:

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: Carlos Chinchillas
Signature:
Month 11 Day 18 Year 201

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Balderas Transportation
Phone#:

Transporter 1 Printed/Typed Name: Michael Balderas
Signature:
Month 11 Day 18 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name
Phone#:

Transporter 2 Printed/Typed Name
Signature:
Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone#: 707-678-4719

Printed/Typed Name:
Signature:
Month 11 Day 18 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1490086
Date: 11/18/2015
Time: 15:18:05 - 15:18:11
INBOUND

Truck: 9484
Customer: 53884/BELSHIRE ENVIRONMENTLicense: 9E17657
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 72120 LBS Scale
Tare: 38900 LBS PreTar
Net: 34220 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	17.11 TONS		

Signature

Marion Allen

NO. 720257

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-835-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume 28-yd

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%	3.		
2. TPH		<1%	4.		

Waste Profile #6598 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

on behalf of andy Saberi Sage appel-Minotti

Generator Printed/Typed Name | Signature | Month Day Year

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name DOMINGUEZ & SON Phone#

Transporter 1 Printed/Typed Name [illegible] Signature | Month 11 Day 8 Year

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name Phone#

Transporter 2 Printed/Typed Name Signature | Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone#
707-678-4718

Printed/Typed Name [illegible] Signature | Month 11 Day 18 Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1490116
Date: 11/18/2015
Time: 15:57:33 - 15:57:45
INBOUND

Truck: 10933
Customer: 53884/BELSHIRE ENVIRONMENT
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy 3

Gross: 76740 LBS Scale
Tare: 30620 LBS PreTar
Net: 46120 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	23.06 TONS		

Recology
WASTE ZERO

Marion Allen

Signature

NO. 720249

NON-HAZARDOUS WASTE DATA FORM

BES# 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1 Volume 20 yds

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%	3.		
2. TPH		<1%	4.		

Waste Profile #6596 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☑ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Sage Appel on behalf of Andy Saberi — Signature — Month 11 Day 19 Year 15

Generator Printed/Typed Name

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Johal Brothers — Phone# 707 655 1021

Transporter 1 Printed/Typed Name: Bobby Khonman — Signature — Month 11 Day 19 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name — Phone#

Transporter 2 Printed/Typed Name — Signature — Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: Terri Wilson — Signature — Month 11 Day 19 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4713

Ticket: 1490307
Date: 11/19/2015
Time: 11:39:41 - 11:40:18

Truck: 10838
Customer: 53804/BELSHIRE ENVIRONMENTA
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy B

Gross: 96060 LBS Scale
Tare: 92560 LBS PrePay
Net: 64300 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
NON/VOC Soil	27.15 TONS		

Recology
WASTE ZERO

Signature

Terri Wilson

NO. 720250

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: ~~510-838-3700~~

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1 Volume 20

WASTE DESCRIPTION NON-HAZARDOUS SOIL
GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile #6696 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☒ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: On Behalf of Andy Saberi — Signature — Month 11 Day 19 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: HT Trucking 9044725 — Phone# 707 704 7729

Transporter 1 Printed/Typed Name: Michael Thrud — Signature — Month 11 Day 18 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name — Phone#

Transporter 2 Printed/Typed Name — Signature — Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name — Signature — Month 11 Day 19 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-679-4718

Ticket: 1490319
Date: 11/19/2015
Time: 11:55:31 - 11:56:55
INBOUND

Truck: 10506
Customer: 52004/BELSHIRE ENVIRONMENTA
Origin: OAK/Oakland

Profile: 6396/Belshire Env.Serv/Andy S

Gross: 86160 LBS Scale
Tare: 33680 LBS PreTar
Net: 52480 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
30TLW/VOC Soil	26.24 TONS		

Terri Wilson

Signature

/MSTR4-LO 9/09 Printed on recycled paper

NON-HAZARDOUS WASTE DATA FORM

NO. 720251

BEST # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Quantity 1 Volume 14

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile #6696 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

On behalf of saberi

Generator Printed/Typed Name | Signature | Month 11 | Day 19 | Year 2015

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Dominguez & Sons | Phone#: 408 358-0652

Transporter 1 Printed/Typed Name: Tyron Tehaseo | Signature | Month 11 | Day 19 | Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone#: 707-678-4718

Printed/Typed Name | Signature | Month 11 | Day 19 | Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1490262
Date: 11/19/2015
Time: 10:34:27 - 10:34:47
INBOUND

Truck: 7954
Customer: 53804/BELSHIRE ENVIRONMENTLicense: 166
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 77420 LBS Scale
Tare: 30280 LBS FroTac
Net: 47140 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	23.52 TONS		

Recology
WASTE ZERO

Signature

Marion Allen

/MSTR4-LO 9/09 Printed on recycled paper

NO. 720252

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ XX Dump Truck
☐ Other ______
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ XX Dump Truck
☐ Other ______
Quantity 1 Volume 18

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

	COMPONENTS OF WASTE	PPM	%		COMPONENTS OF WASTE	PPM	%
1.	SOIL		99-100%	3.			
2.	TPH		<1%	4.			

Waste Profile J#6598 PROPERTIES: pH ______ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ______

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

On behalf of Andy Saberi

Generator Printed/Typed Name	Signature	Month	Day	Year

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: DOMINGUEZ & SON Phone#: 408 661-0326

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
AMRIK PAWAR	Amrik Singh	11	19	15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name Phone#

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name	Signature	Month	Day	Year
[illegible signature]	[signature]	11	19	15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1490249

Date: 11/19/2015
Time: 10:16:57 - 10:17:32
INBOUND

Truck: 10933
Customer: 53884/BELSHIRE ENVIRONMENTE
Origin: OAK/Oakland

Profile: 6595/Belshire Env.Serv/Andy S

Gross: 79680 LBS Scale
Tare: 30620 LBS FeeTar
Net: 49060 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOIL/VOC Soil	24.53 TONS		

RECOLOGY
WASTE ZERO

Signature

Marion Allen

MSTR4-LO 9/09 Printed on recycled paper

NO. 720253

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-838-3700

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other _____
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other _____
Quantity 1 Volume _____

WASTE DESCRIPTION NON-HAZARDOUS SOIL
GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile # 96596 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

on behalf of Andy Saberi

Generator Printed/Typed Name | Signature | Month Day Year

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: ~~APPLE~~ GOLDEN APPLE | Phone# 510 812-7440

Transporter 1 Printed/Typed Name: Dilbag Singh | Signature | Month 11 Day 19 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name | Signature | Month 11 Day 19 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
5426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1490247
Date: 11/19/2015
Time: 10:13:51 - 10:14:36
INBOUND

Truck: 10520
Customer: 52884/BELSHIRE ENVIRONMENTS
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S.

Gross: 71600 LBS Scale
Tare: 25540 LBS PrePay
Net: 46060 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOIL/VOC Soil	23.03 TONS		

Recology
WASTE ZERO

Signature

Marion Allen

MSTR4-LO 9/09 Printed on recycled paper

NO. 720254

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-636-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile #6596 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

On behalf of Andy Saberi

Generator Printed/Typed Name | Signature | Month Day Year

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: MG TRUCKING Phone#: (650) 793-7013

Transporter 1 Printed/Typed Name: ARTURO BOLANOS | Signature | Month Day Year: 11 19 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name | Signature | Month Day Year: 11 19 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-8718

Ticket: 1490237
Date: 11/19/2015
Time: 09:52:00 -- 09:52:20
INBOUND

Truck: 10922
Customer: 53884/BELSHIRE ENVIRONMENT
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 89020 LBS Scale
Tare: 32060 LBS PreTar
Net: 56960 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILW/VOC Soil	28.48 TONS		

Recology
WASTE ZERO

Terri Wilson

Signature

NO. 720255

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Quantity 1 Volume

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile # 106506 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

on behalf of Andy Saberi

Generator Printed/Typed Name | Signature | Month 11 | Day 19 | Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Edwards Trucking | Phone#: (209) 835-1021

Transporter 1 Printed/Typed Name: Bobby K Hayward | Signature | Month 11 | Day 19 | Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone#
707-678-4718

Printed/Typed Name | Signature | Month 11 | Day 19 | Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
5426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1490191

Date: 11/19/2015
Time: 08:27:39 - 09:30:10
REMOND

Truck: 10838
Customer: 52884/BELSHIRE ENVIRONMENTAL
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 84080 LBS Scale
Tare: 32560 LBS PreTar
Net: 51520 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOIL N/VOC Soil	25.76 TONS		

Recology
WASTE ZERO

Terri Wilson

Signature

NON-HAZARDOUS WASTE DATA FORM

NO. 720256

BES # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (If different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1 Volume 18

WASTE DESCRIPTION NON-HAZARDOUS SOIL
GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%	3.		
2. TPH		<1%	4.		

Waste Profile #86596 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: on behalf of andy saberi — Signature: Gaye Appel-Minotti — Month 11 Day 19 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: HERNANDEZ TRK — Phone# 209 604-5256

Transporter 1 Printed/Typed Name: Hector Hernandez — Signature — Month 11 Day 19 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name — Phone#

Transporter 2 Printed/Typed Name — Signature — Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name — Signature — Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form

RECOLOGY HAY ROAD
5926 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1490198
Date: 11/19/2015
Time: 08:50:50 - 08:51:22
INBOUND

Truck: 9165
Customer: 59884/BELSHIRE ENVIRONMENTLicense: UP07171
Origin: OAK/Oakland

Profile: 6596/Belshire Env.Serv/Andy S

Gross: 91960 LBS Scale
Tare: 32560 LBS PreTar
Net: 59400 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOIL/VOC Soil	29.70 TONS		

Recology
WASTE ZERO

Signature

Terri Wilson

VMSTR4-LO 9/09 Printed on recycled paper

9-8 4100
T-30700
10 ½ 60 ½ NO. 720237 5

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Phone: 510-836-3700

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Container type removed from site: ☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other ______

Quantity 1

Container type transported to receiving facility: ☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other ______

Quantity 1 Volume 18 yds

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

	COMPONENTS OF WASTE	PPM	%		COMPONENTS OF WASTE	PPM	%
1.	SOIL		99-100%	3.			
2.	TPH		<1%	4.			

Waste Profile #6506-3 LF PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ______

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: on behalf of Generator James Bauer
Signature: [signature]
Month 11 Day 23 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Golden Apple Phone#

Transporter 1 Printed/Typed Name: Golden Apple Signature: Jan Month 11 Day 23 Year 15

Lic #9B94795

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name Phone#

Transporter 2 Printed/Typed Name Signature Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: Francis Walton Signature: [signature] Month 11 Day 23 Year 15

Designated Facility Owner or Operator Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1491736

Date: 11/23/2015
Time: 13:36:10 - 14:45:17
INBOUND

Truck: 10507
Customer: 53004/BELSHIRE ENVIRONMENTLicense: 9B54795
Origin: OAK/Oakland

Profile: 65963/Andy Haberl/1230 14th S

Gross: 99100 LBS Manual
Tare: 28760 LBS Scale
Net: 55940 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	27.97 TONS		

Signature

Frances Jackson

/MSTR4-LO 9/09 Printed on recycled paper

NO. 720239

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1 Volume 19 yrds

WASTE DESCRIPTION NON-HAZARDOUS SOIL
GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. SOIL		98-100%	3.		
2. TPH		<1%	4.		

Waste Profile #6596.3 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name James Bauer for generator | Signature | Month 11 | Day 23 | Year 13

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name Golden Apple | Phone# (808) 313-9389

Transporter 1 Printed/Typed Name Golden Apple | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

LIC #98794795

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name | Signature | Month 11 | Day 23 | Year 10

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-3718

Ticket: 1491525

Date: 11/23/2015
Time: 10:05:33 - 10:05:46
INBOUND

Truck: 10507
Customer: 53004/BELSHIRE ENVIRONMENTL License: 3894795
Origin: OAE/Oakland

Profile: 65962/Andy Saberi/1230 14th S

Gross: 83740 LBS Scale
Tare: 30700 LBS ExcTar
Net: 53040 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	26.52 TONS		

Recology
WASTE ZERO

Signature

Frances Jackson

VMSTR4-LO 9/09 Printed on recycled paper

belshire
environmental services, inc.

Belshire Environmental Tonnage Report

Site Information	Disposal Facility
Shell/Sabek, Inc. 1230 14th Street Oakland, CA 94607 EPA ID:	Recology Hay Rd. Landfill 6426 Hay Rd Vacaville, CA 95687 EPA ID:

Shipment Description	
Non-Hazardous Soil	Profile #: J#6596

Shipment Date	Manifest No	Ticket No	Load	Cleanup	Tons
11/21/2015	720243	1491068	1		17.03
11/21/2015	720244	1491129	2		19.02
11/21/2015	720246	1490980	3		18.16
11/21/2015	720247	1490957	4		18.25
11/21/2015	720248	1490971	5		15.97
11/25/2015	720245	1492220	6		21.34
11/25/2015	720295	1492388	7		24.05
Project Tonnage Total					**133.82**

NO. 720243 4

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume 32.5 yards

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.	544.76	
4.		

Waste Profile #6596.2 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: On behalf of Andy Saberi James Baird | Signature | Month 11 | Day 21 | Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Golden Apple | Phone#

Transporter 1 Printed/Typed Name: Randy | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone#
707-678-4718

Printed/Typed Name | Signature | Month 11 | Day 21 | Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1491068
Date: 11/21/2015
Time: 13:05:14 - 13:05:18
INBOUND

Truck: 10031
Customer: 53004/BELSHIRE ENVIRONMENTLicense: 0451127
Origin: OAK/Oakland

Profile: 65962/#260091/ANDY SABERI/EQU

Gross: 57920 LBS Scale
Tare: 23860 LBS PreTar
Net: 34060 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
~~SOIL/VOC SOIL~~	17.03 TONS		

GEND

Recology
WASTE ZERO

Total

Marion Allen

Signature

MSTR4-LO 9/09 Printed on recycled paper

NO. 720244

5

NON-HAZARDOUS WASTE DATA FORM

BEST # 260091

GENERATOR

Generator's Name and Mailing Address

ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)

SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:

☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck (Green)

☐ Other

Quantity QNID

Container type transported to receiving facility:

☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck

☐ Other

Quantity 1 Volume 17 yrds

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile #6596.2 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

- General Debris

Generator Printed/Typed Name: On Behalf of Andy Saberi James Bauer | Signature | Month 11 | Day 21 | Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: GOLDEN APPLE | Phone#

Transporter 1 Printed/Typed Name: GOLDEN APPLE | Signature | Month 11 | Day 21 | Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address

RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: Damien Jaclin | Signature | Month 11 | Day 21 | Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form

RECOLOGY HAY ROAD
5426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1491129
Date: 11/21/2015
Time: 14:32:36 - 14:32:07
INBOUND

Truck: 10520
Customer: 53664/BELSHIRE ENVIRONMENT
Origin: OAK/Oakland

Profile: 65960/Andy Suberi/1230 14th S

Gross: 63580 LBS Scale
Tare: 25540 LBS PreTar
Net: 38040 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	19.02 TONS		

GEND

Recology
WASTE ZERO

Signature

Frances Jackson

VMSTR4-LO 9/09 Printed on recycled paper

NO. 720246

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-838-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other _____
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other _____
Quantity 1 Volume 17

WASTE DESCRIPTION NON-HAZARDOUS SOIL
GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile #6590.3 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name On behalf of Andy Saberi Name Baxter | Signature | Month 11 | Day 21 | Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name GOLDEN APPLE | Phone# | 11/21/15

Transporter 1 Printed/Typed Name Dylan Stahl | Signature | Month 11 | Day 21 | Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name M A T A | Signature | Month 11 | Day 12 | Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1400080
Date: 11/21/2015
Time: 10:43:24 - 10:44:11
INBOUND

Truck: 10520
Customer: 52004/SELSHIRE ENVIRONMENT
Origin: OAK/Oakland

Profile: 65963/Andy Saberi/1250 Mesh 3

Gross: 61860 LBS Scale
Tare: 25540 LBS PreTar
Net: 36320 LBS
Scale: HL

Materials & Services	Quantity	Rate	Amount
SOIL/VOC Soil	18.16 TONS		

GEND

Recology
WASTE ZERO

Signature

Marion Allen

NO. 720247

NON-HAZARDOUS WASTE DATA FORM

120 # Truck

BEST # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (If different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1 CLEND

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1 Volume 17

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		584.00
4.		

Waste Profile #86598 3 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

584.00

Generator Printed/Typed Name: On the Behalf of Andy Saberi James Bauer
Signature
Month 11 Day 21 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Golden Apple
Phone#

Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name
Phone#

Transporter 2 Printed/Typed Name
Signature
Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone#
707-678-4718

Printed/Typed Name
Signature
Month 11 Day 21 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

(510) 504-2873

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-670-9710

Ticket: 1490957
Date: 11/21/2015
Time: 10:09:12 - 10:09:10
INBOUND

Truck: 10031
Customer: 59864/SELSHIRE ENVIRONMENTLicense: 0451127
Origin: OAK/Oakland
Profile: 65960/Andy Saberi/1220 14th S

Gross: 60860 LBS Scale
Tare: 23860 LBS PreTar
Net: 36500 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
~~Contaminated Soil~~	18.25 TONS		

GEND

Recology
WASTE ZERO

Signature

Marion Allen

NO. 720248

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1 Volume 15?

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile #6596.3 3 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: On Behalf Of Andi Saberi James Bauer
Signature:
Month 11 Day 21 Year 15
The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: GAE. TRK 106.
Phone# 559.916.9682
Transporter 1 Printed/Typed Name: Bauer
Signature:
Month 11 Day 21 Year 15
Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name
Phone#
Transporter 2 Printed/Typed Name
Signature
Month Day Year
Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: Martial
Signature:
Month 11 Day 2 Year 15
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4715

Ticket: 1490971

Date: 11/21/2015
Time: 10:10:04 - 10:31:32
INBOUND

Truck: 106
Customer: 53004/BELSHIRE ENVIRONMENT
Origin: OAK/Oakland

Profile: 65953/Andy Saberi/1230 14th S

Gross: 56260 LBS Scale
Tare: 24320 LBS Scale
Net: 31940 LBS
Scale: 02

Materials & Services	Quantity	Rate	Amount
~~BOTTOM/WOC Soil~~	15.97 TONS		

GEND

Recology
WASTE ZERO

Frances Jackson

Signature

NO. 720245 6

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-930-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other _____
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other _____
Quantity 1 Volume 17 yds

WASTE DESCRIPTION NON-HAZARDOUS SOIL
GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile #W0586.3 PROPERTIES: pH ____ ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

General Debris

Generator Printed/Typed Name Andy Saberi On Behalf of James Bayer Signature [signature] Month 11 Day 21 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name Golden apple express Phone#

Transporter 1 Printed/Typed Name Jushpal singh Signature Jushpal singh Month 11 Day 25 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name Phone#

Transporter 2 Printed/Typed Name Jushpal singh Signature Jushpal singh Month 11 Day 25 Year 15

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name [illegible] Signature [signature] Month 11 Day 25 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

6888 No Replacement

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1492290
Date: 11/25/2016
Time: 08:41:58 - 08:42:05
INBOUND

Truck: 10031
Customer: 52884/BELSHIRE ENVIRONMENTLicense: 0451137
Origin: OAK/Oakland

Profile: 55983/Andy Saheri/1230 Mch 3

Gross: 65540 LBS Scale
Tare: 22860 LBS PreTar
Net: 42680 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
30TLV/VOC Soil	21.34 TONS		

General

RECOLOGY
WASTE ZERO

Jusmpal singh

Signatures

Marion Allen

/MSTR4-LO 9/09 Printed on recycled paper

NO. 720295

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1046 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1 Volume 10

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. TPH		99-100%
2. SOIL		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile JA6596 4 14 JB PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: On behalf of Andy Saberi Sage | Signature | Month 11 Day 25 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: Jushpal singh | Phone#

Transporter 1 Printed/Typed Name: Jushpal singh | Signature

Transporter Acknowledgment of Receipt of Materials: Golden apple express | Month 11 Day 25 Year 15

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: MATT AZ | Signature | Month 11 Day 25 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4713

Ticket: 1492388
Date: 11/25/2015
Time: 12:35:02 - 12:36:28
INBOUND

Truck: 10031
Customer: 53884/BELSHIRE ENVIRONMENTALLicense: 0451127
Origin: OAK/Oakland

Profile: 65969/Andy Zaberi/Equilon Ent

Gross: 71960 LBS Scale
Tare: 23860 LBS PreTar
Net: 48100 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
GEND/General Debris	24.05 TONS		

RECOLOGY
WASTE ZERO

Jushpal Singh
Signature

Marion Allen

/MSTR4-LO 9/09 Printed on recycled paper

belshire
environmental services, inc.

Belshire Environmental Tonnage Report

Site Information	Disposal Facility
Shell/Sabek, Inc. 1230 14th Street Oakland, CA 94607 EPA ID:	Recology Hay Rd. Landfill 6426 Hay Rd Vacaville, CA 95687 EPA ID:

Shipment Description	
Non-Hazardous Soil	Profile #: ADC

Shipment Date	Manifest No	Ticket No	Load	Cleanup	Tons
11/23/2015	720236	1491767	1		15.67
11/23/2015	720238	1491732	2		17.17
11/23/2015	720240	1491537	3		19.70
11/23/2015	720242	1491506	4		16.37
11/25/2015	720294	1492227	5		20.39
Project Tonnage Total					**89.30**

9' 5104Q
T 19720

NO. 720236 6

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1

Quantity 1 Volume

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile J46598.3 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: On Behalf of Generator — James Bauer — Signature — Month 11 Day 23 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: GAE Trkng — Phone# 707-208-2003

Transporter 1 Printed/Typed Name: Satinder Singh — Signature — Month 11 Day 23 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name — Phone#

Transporter 2 Printed/Typed Name — Signature — Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name — Signature — Month 11 Day 23 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1491767

Date: 11/23/2015
Time: 15:26:16 - 15:26:29
INBOUND

Truck: 10032
Customer: 52804/BELSHIRE ENVIRONMENTLicense: 59448a1
Origin: OAK/Oakland

Profile: 65963/Andy Saberi/1230 18th S

Gross: 51060 LBS Manual
Tare: 19720 LBS FreTar
Net: 31340 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	15.67 TONS		

Recology
WASTE ZERO

Signature

Frances Jackson

VMSTR4-LO 9/09 Printed on recycled paper

91155 58 500 4596.3 NO. 720238

4

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck ☐ Other

Quantity 1 Volume 18 yds

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile: 4596.3 PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: On Behalf of Generator James Bauer — Signature — Month 11 Day 23 Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER 1

Transporter 1 Company Name: A. GAE. TRK. 106 — Phone# 559.916.9682

Transporter 1 Printed/Typed Name — Signature — Month 11 Day 23 Year 15

Transporter Acknowledgment of Receipt of Materials

TRANSPORTER 2

Transporter 2 Company Name — Phone#

Transporter 2 Printed/Typed Name — Signature — Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
8426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4716

Printed/Typed Name — Signature — Month 11 Day 23 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1491732
Date: 11/23/2015
Time: 14:34:38 - 14:35:05
INBOUND

Truck: 10940
Customer: 53004/BELSHIRE ENVIRONMENTA
Origin: OAK/Oakland

Profile: 65963/Andy Saberi/1220 14th S

Gross: 58500 LBS Manual
Tare: 24160 LBS Scale
Net: 34340 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	17.17 TONS		

Recology
WASTE ZERO

Frances Jackson

Signature

NMSTR4-LO 9/09 Printed on recycled paper

NO. 720240

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other

Quantity 1 Volume 18 yrds

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%
1. SOIL		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile # 720240.3

PROPERTIES: pH ____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: James Bauer
Signature:
Month 11 Day 23 Year 15
The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name
Phone#
Transporter 1 Printed/Typed Name: Satinder Singh
Signature:
Month 11 Day 23 Year 15
Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name
Phone#
Transporter 2 Printed/Typed Name
Signature
Month Day Year
Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name
Signature
Month Day Year
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710

Ticket: 1491537

Date: 11/23/2015
Time: 10:26:20 - 10:26:39
INBOUND

Truck: 10032
Customer: 53669/BELSHIRE ENVIRONMENTLicense: 59448a1
Origin: OAK/Oakland

Profile: 65969/Andy Saberi/1220 14th S

Gross: 59120 LBS Scale
Tare: 19730 LBS PreTar
Net: 39400 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	19.70 TONS		

Recology
WASTE ZERO

Signature

Frances Jackson

VMSTR4-LO 9/09 Printed on recycled paper

0841164-8

NO. 720242

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Generator's Phone: 510-836-3709

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other
Quantity 1 Volume 18 yrds

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

	COMPONENTS OF WASTE	PPM	%		COMPONENTS OF WASTE	PPM	%
1.	SOIL		99-100%	3.			
2.	TPH		<1%	4.			

Waste Profile #6596-3 PROPERTIES: pH ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING

Generator Printed/Typed Name: James Bauer
Signature: [signature]
Month/Day/Year: 11/23/15
The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: G.A.F. TRK
Phone# 559.916.9682
Transporter 1 Printed/Typed Name:
Signature: [signature]
Month/Day/Year: 11/23/15
Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name
Phone#
Transporter 2 Printed/Typed Name
Signature
Month Day Year
Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: Francisco Vatsin
Signature: [signature]
Month/Day/Year: 11/23/15
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1491506
Date: 11/23/2015
Time: 09:21:54 - 09:26:45
INBOUND

Truck: 80411E1
Customer: 53864/BELSHIRE ENVIRONMENTL
Origin: OAK/Oakland

Profile: 65963/Andy Saberi/1220 14th S

Gross: 57060 LBS Scale
Tare: 24320 LBS Scale
Net: 32740 LBS
Scale: H2

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	16.37 TONS		

Recology
WASTE ZERO

Terri Wilson

Signature

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NO. 720294

NON-HAZARDOUS WASTE DATA FORM

BESI # 260091

GENERATOR

Generator's Name and Mailing Address
ANDY SABERI / EQUILON ENTERPRISES, LLC
1045 AIRPORT BLVD.
SUITE 12
SOUTH SAN FRANCISCO, CA 94080

Generator's Phone: 510-836-3709

Generator's Site Address (if different than mailing address)
SHELL/SABEK, INC.
1230 14TH STREET
OAKLAND, CA 94607

Container type removed from site:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other ________
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☒ Dump Truck
☐ Other ________
Quantity 1 Volume 17 yds

WASTE DESCRIPTION NON-HAZARDOUS SOIL

GENERATING PROCESS REMEDIAL EXCAVATION

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. TPH		99-100%	3.		
2. SOIL		<1%	4.		

Waste Profile J#6596.3 PROPERTIES: pH ___ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: On Behalf of Generator SageAppel
Signature: [signature]
Month 11 Day 25 Year 15

The Generator certifies that the waste as described is 100% non-hazardous.

TRANSPORTER

Transporter 1 Company Name: Golden Apple
Phone#

Transporter 1 Printed/Typed Name: Randy
Signature: [signature]
Month 11 Day 25 Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name
Phone#

Transporter 2 Printed/Typed Name
Signature
Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
RECOLOGY HAY RD. LANDFILL
6426 HAY RD
VACAVILLE, CA 95687

Phone# 707-678-4718

Printed/Typed Name: [illegible]
Signature: [signature]
Month 11 Day 25 Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718

Ticket: 1492227

Date: 11/25/2015
Time: 08:52:35 - 08:52:44
INBOUND

Truck: 10272
Customer: 53884/BELSHIRE ENVIRONMENTL
Origin: OAK/Oakland

Profile: 55969/Andy Zaheri/1230-14th S

Gross: 65340 LBS Scale
Tare: 24560 LBS PreTar
Net: 40780 LBS
Scale: H1

Materials & Services	Quantity	Rate	Amount
SOILV/VOC Soil	20.39 TONS		

Recology
WASTE ZERO

Marion Allen

Signature

VMSTR4-LO 9/09 Printed on recycled paper

APPENDIX G

Argent Materials Letter

ARGENT MATERIALS
8300 Baldwin Street Oakland, CA 94621
Phone 510-638-7188 Fax 510-638-7189

James Bauer
Sustainable Technologies

April 13, 2016

Subj: Confirmation of Non-Hazardous Material

RE: 1230 14th Street

Mr. Bauer

The ¾ Class 2 Base Rock, Backfill material and ¾ Drain Rock sold at our yard in Oakland are free of contaminates. Our materials have been used on a wide variety of public and private projects without incident.

Kind Regards,

Bill Crotinger
Argent Materials Inc.
8300 Baldwin St.
Oakland, CA 94621