ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

(510) 247-9885 Facsimile: (510) 886-5399 info@eras.biz

June 30, 2015

Mr. Eric Boehm
27850 Sharon Ct
Tracy, CA 95304

**Subject: Limited Soil Investigation**
**730-750 A Street, Hayward, California**
**ERAS Project Number 15091A**

Dear Mr. Boehm:

ERAS Environmental, Inc. (ERAS) is pleased to present the results of the limited subsurface investigation for the collection of soil samples at 730-750 A Street in Hayward, California (the "Property").

The scope of work conducted follows the general standards of care and practice for investigations at facilities which formerly operated as an automotive repair facility utilizing underground hydraulic lifts.

The location of the Property is shown on **Figure 1** and the boring locations are shown on **Figure 2**. The figures are included as **Attachment A**.

## BACKGROUND

ERAS performed a Phase 1 Environmental Site Assessment (ESA) project and the results were presented in a report dated May 18, 2015.

ERAS observed that eighteen underground hydraulic lifts had been removed from the Property and no environmental sampling appeared to have been conducted at the time of the lift removals. ERAS recommended the collection of soil samples beneath the former lifts to determine if the subsurface environmental conditions beneath the Property have been impacted.

## REGIONAL GEOLOGY/HYDROLOGY

The Property is located in the southern part of Alameda County, approximately 3 miles east of the San Francisco Bay, and lies within the Coast Ranges California Geomorphic province. The ground surface elevation at the Property is approximately 90 feet above Mean Sea Level (MSL) according to the 1980 United States Geological Survey (USGS) Hayward Quadrangle Topographic Map. Surface topography in the immediate vicinity of the Property is relatively level, with a gentle northwesterly slope.

The sediments in the vicinity of the Property are fine-grained alluvial sediments that represent distal deposits of alluvial fans deposited by rivers draining upland surfaces to the east of the Property. These sediments were deposited in a low energy environment on the margins of San Francisco Bay. At shallow depths beneath these sediments are a series of Recent-age (<10,000 years) blue clay layers that become increasingly thicker toward San Francisco Bay (Helley, et al, 1974). These clay layers are known as the Bay Mud and were deposited in San Francisco Bay during higher stands of sea level. In the vicinity of the Property it is likely that several hundred feet of these sediments overlie several thick gravel beds alternating with thick fine-grained units that are known to be present in the general vicinity. Beneath these sediments are sandstones and serpentine of the Jurassic-aged Franciscan Formation.

The Property is located in an area known as the Bay Plain, which is a subarea of the Santa Clara Valley Groundwater Basin (Department of Water Resources, 1967). The Bay Plain is characterized by thin interbeds of sand, silt and clay deposited in flat lying marshland and shallow low energy alluvial channels. Groundwater in this area generally occurs at shallow depths in thin discontinuous fine sand beds within deposits of mostly silt and clay. The regional groundwater flow generally follows the topography, moving from areas of higher elevation to areas of lower elevation.

Groundwater monitoring at a nearby site located at 898 A Street has determined that the regional groundwater flow direction in the vicinity of the Property is to the southwest. The depth to groundwater in the vicinity of the Property has been determined to range from 5 to 40 feet below ground surface (bgs) (Arcadis, 2015).

## FIELD WORK PERFORMED

ERAS obtained a drilling permit from the Alameda County Department of Public Works (ACDPW). A copy of the permit is included in **Attachment B**.

Eighteen 2.5-inch diameter soil borings were drilled using a hydraulic push sampling rig by ECA of Aptos, California on June 16th, 2015 to collect soil samples for laboratory analysis. The locations of the borings are shown on **Figure 2**. Borings B-1 through B-15 were located in the portion of the Property addressed 750 A Street and borings B-16 through B-18 were located in the portion of the Property addressed 730 A Street. Each boring was advanced until native soil was encountered. The depths of the borings ranged from 10 to 12 feet below ground surface.

Soil was continuously collected for lithologic logging and monitored using an organic vapor meter (OVM) for indications of volatile organic content. The soil cores were logged by ERAS geologist Andrew Savage and the lithologic logs are included in **Attachment C**. The Standard Operating Procedures for groundwater sampling with a direct-push sample rig are included as **Attachment D**.

The subsurface vadose zone lithology encountered consisted of silty clay, gravely sand, and silty sand fill underlain by the native silty clay,

A soil sample was collected for analysis from native soil at the base of each boring. Signs of contamination such as odor and elevated OVM readings were observed only in boring B-6.

## ANALYTICAL RESULTS

The soil samples were transported under chain-of-custody procedures to McCampbell Analytical, a state-certified laboratory in Pittsburg, California. One soil sample from each boring was submitted for analysis. The laboratory report and chain of custody form are included as **Attachment E**.

The samples were analyzed for the presence of total petroleum hydrocarbons quantified as hydraulic oil range organics (TPH-ho[1]) by EPA Method 8015 and poly chlorinated biphenyl's (PCB's) by EPA Method 8082.

*Soil*

| | Hydraulic Oil | PCB's |
|---|---|---|
| | Mg/Kg | |
| B-1, 11-11.5 | <5 | <0.050 |
| B-2, 9.5-10 | <5 | <0.050 |
| B-3, 9.5-10 | <5 | <0.050 |
| B-4, 10.5-11 | <5 | <0.050 |
| B-5, 9.5-10 | <5 | <0.050 |
| B-6, 9.5-10 | **10,000** | <2.5 |
| B-7, 9.5-10 | 20 | <0.050 |
| B-8, 9.5-10 | <5 | <0.050 |
| B-9, 9.5-10 | <5 | <0.050 |
| B-10, 11.5-12 | <5 | <0.050 |
| B-11, 10.5-11 | <5 | <0.050 |
| B-12, 10.5-11 | 34 | <0.050 |
| B-13, 9.5-10 | <5 | <0.050 |
| B-14, 9.5-10 | <5 | <0.050 |
| B-15, 11.5-12 | **2,500** | <0.050 |
| B-16, 6.5-10 | <5 | <0.050 |
| B-17, 9.5-10 | 5.6 | <0.050 |
| B-18, 9.5-10 | <5 | <0.050 |
| ESL-DW | 1,000 | 0.74 |

See Notes on table following page

[1] TPH-gro, TPH-dro, and TPH-oro are methods that compare analytical results to standards for gasoline, diesel and motor oil, respectively. Therefore analytical results are estimates of quantities based on what would be expected for the range of hydrocarbon results for the standard. Gasoline range organics (gro) are those hydrocarbon compounds that are in the range of C6 to C10, diesel range organics (dro) are those hydrocarbon compounds that are in the range of C10 to C23, and oil range organics (oro) – including hydraulic oil (ho) are those hydrocarbon compounds that are in the range of C18 to C36. There can be overlap in reporting methods as well as identification of compounds that fall within the standard that may not necessarily be derived from gasoline, diesel, or oil.

Notes:
mg/Kg – milligrams per kilogram
ESL – environmental screening limits set forth by the California Regional Water Quality Control Board as of December 2013, Table A, Commercial Property
DW – Are considered as potential source of drinking water
TPH-ho – Total petroleum hydrocarbons quantified as hydraulic oil range organics
PCB's – Poly chlorinated biphenyl's

## CONCLUSIONS AND RECOMMENDATIONS

The purpose of this investigation was to assess subsurface environmental conditions beneath the Property due to the former presence of underground hydraulic lifts on the Property.

Eighteen 2.5-inch diameter soil borings were drilled using a hydraulic push sampling rig by ECA of Aptos, California on June 16th, 2015 to collect soil samples for laboratory analysis. Borings B-1 through B-15 were located in the portion of the Property addressed 750 A Street and borings B-16 through B-18 were located in the portion of the Property addressed 730 A Street. Each boring was advanced until native soil was encountered. The depths of the borings ranged from 10 to 12 feet below ground surface.

A soil sample was collected for analysis from the native soil beneath each lift location. The samples were analyzed for the presence of total petroleum hydrocarbons quantified as TPH-ho by EPA Method 8015 and PCB's by EPA Method 8082.

Two of the eighteen samples (B-6, 9.5-10 and B-15, 11.5-12) contained concentrations of TPH-ho above the ESL at concentrations of 10,000 mg/Kg and 2,500 mg/Kg respectively. Both of these concentrations were above the ESL of 1,000 mg/Kg and indicate that a release has occurred.

Additional investigations will likely be needed to characterize the extent of the TPH-ho contaminant detected.

No concentrations of PCB's were detected above their method detection limit.

As a condition of the drilling permit issued by the ACPWA it was stated: "Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agency under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator."

ERAS recommends that this report be provided to the Alameda County Department of Environmental Health and the California Regional Water Quality Control Board (RWQCB) for further oversight.

## REFERENCES

Arcadis, Off-site Groundwater Delineation Assessment Report, Former Unocal Site No. 6049, 898 A Street, Hayward, California, March 4, 2015.

Dibblee, Thomas W., and Darrow, Richard L., Guidebook to the Regional Geology of the East Bay Hills and the Northern Diablo Range - Livermore Valley Area, U.S.G.S Open File Report, 1981.

ERAS Environmental, Inc., Phase 1 Environmental Site Assessment, 730-750 A Street, Hayward, California, May 18, 2015.

Goldman, Harold B., Geology of San Francisco Bay prepared for San Francisco Bay Conservation and Development Commission, February 1967.

Helley, E.J., La Joie, K.R., Spangle, W.E., and Blair, M.L., Flatland Deposits of the San Francisco Bay Region, California - their geology and engineering properties and their importance to comprehensive planning, U.S. Geological Survey Professional Paper 943, 1974.

## CERTIFICATION

Our firm has prepared this report for the Client's exclusive use for this particular project and in general accordance with the accepted standard of practice that exists in Northern California at the time the investigation was performed. No other representations, expressed or implied, and no warranty or guarantee is included or intended. No subsurface investigation is complete enough to guarantee that no contamination exists on a particular site and the judgments leading to conclusions and recommendations are generally made based on the data collected according to the scope of work performed and are therefore potentially limited and incomplete. More extensive studies can tend to reduce the uncertainties associated with this type of investigation.

This report may be used only by the client and only for the purposes stated within a reasonable time from its issuance. Land use, site conditions (both on-site and off-site) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify ERAS of such intended use. Based on the intended use of report, ERAS may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release ERAS from any liability resulting from the use of this report by any unauthorized party.

If you have questions or comments regarding this report please contact Andrew Savage at 510-247-9885 x302, or by e-mail andrew@eras.biz.

ERAS thanks you for the opportunity to serve you.

Sincerely,
ERAS Environmental, Inc.


Andrew Savage
Project Geologist

Curtis Payton
California Registered Professional Geologist 5608

**Attachments**

A Figures
B Permit
C Lithologic Logs
D Standard Operating Procedures
E Laboratory Reports and Chain of Custody Form

# ATTACHMENT A

# FIGURES

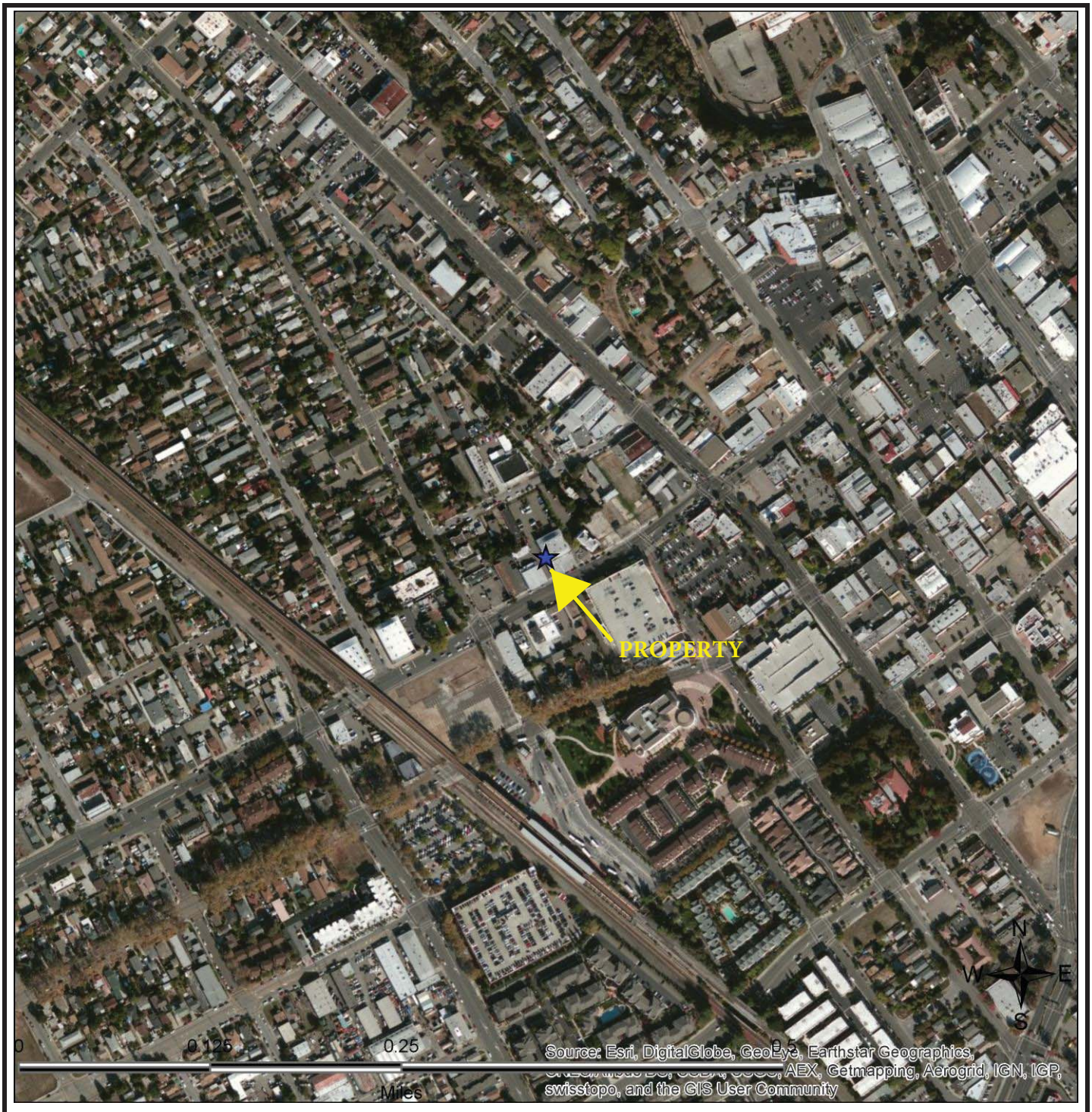
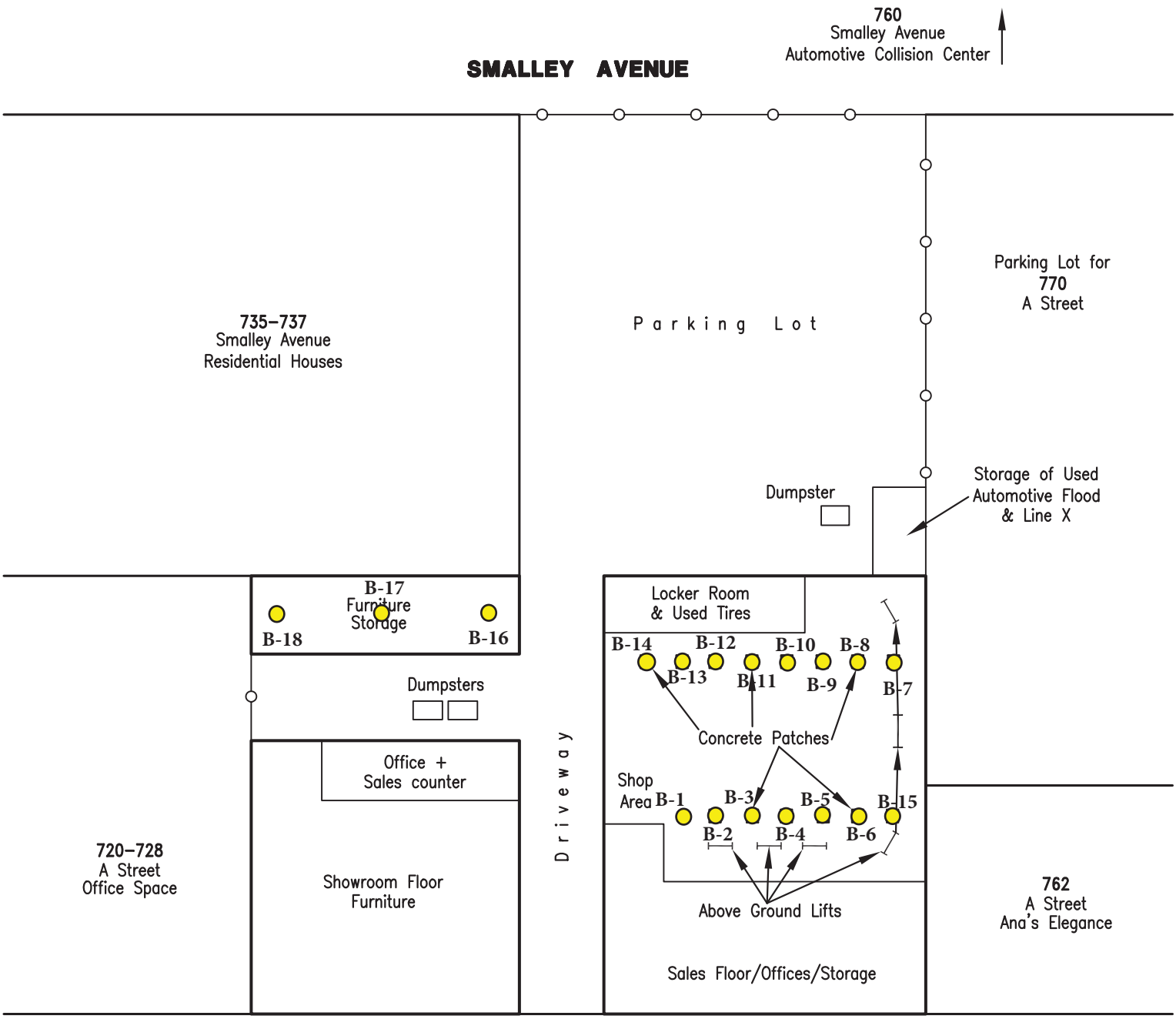



**FIGURE 1**

## SITE LOCATION MAP

| | | | |
|---|---|---|---|
| ERAS Environmental, Inc. | 730 A Street<br>Hayward, CA | N | JOB: 15091 |




**PROPERTY SITE PLAN** **FIGURE 2**

Project No. 15091A
730–750 A Street
Hayward, CA

2015
Not to Scale

ERAS Environmental

Boring Locations

ATTACHMENT B

PERMIT

# 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: 06/04/2015 By jamesy**

**Permit Numbers: W2015-0479**
**Permits Valid from 06/16/2015 to 06/16/2015**

| | | | |
|---|---|---|---|
| **Application Id:** | 1432920082325 | **City of Project Site:** | Hayward |
| **Site Location:** | 730-750 A Street, Hayward | | |
| | Seventeen borings to 10 feet for soil sample collection | | |
| **Project Start Date:** | 06/16/2015 | **Completion Date:** | 06/16/2015 |
| **Assigned Inspector:** | Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org | | |
| **Applicant:** | ERAS Environmental, Inc. - Andrew Savage<br>1533 B Street, Hayward, CA 94541 | **Phone:** | 510-247-9885 x302 |
| **Property Owner:** | Don Boehm<br>27850 Sharon Court, Tracy, CA 95304 | **Phone:** | -- |
| **Client:** | Don Boehm<br>27850 Sharon Court, Tracy, CA 95304 | **Phone:** | -- |
| **Contact:** | Andrew Savage | **Phone:**<br>**Cell:** | 510-247-9885 x302<br>925-330-8926 |

| | | |
|---|---|---|
| | **Total Due:** | $265.00 |
| **Receipt Number: WR2015-0277** | **Total Amount Paid:** | $265.00 |
| **Payer Name : Andrew Savage** | Paid By: MC | **PAID IN FULL** |

**Works Requesting Permits:**

Borehole(s) for Investigation-Environmental/Monitorinig Study - 17 Boreholes
Driller: Environmental Control Associates (ECA) - Lic #: 695970 - Method: DP **Work Total: $265.00**

**Specifications**

| Permit Number | Issued Dt | Expire Dt | # Boreholes | Hole Diam | Max Depth |
|---|---|---|---|---|---|
| W2015-0479 | 06/04/2015 | 09/14/2015 | 17 | 2.75 in. | 10.00 ft |

**Specific Work Permit Conditions**

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

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

4. 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.

5. 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.

6. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a 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.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

# ATTACHMENT C

# LITHOLOGIC LOGS

# ERAS Environmental

**Log of Boring** B-1

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 12 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @2.5 0.1 | | NR NR NR | CL | | Silty Clay, very dark brown (10YR 2/2) damp medium stiff, medium plasticity, no hydrocarbon (HC) odor |
| 5 | @6.5 0.2 | | NR NR NR | SW | | Gravely Sand, very dark brown (10YR 2/2) damp low density, ~30% fines, ~60% fine to coarse well graded sand, no HC odor |
| 10 | @11.5 0.1 | | NR | CL | | Silty Clay, dark yellowish brown (10YR 3/6) damp stiff, medium plasticity, no HC odor |
| | | | | | | Bottom of Boring 12 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-2

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch baserock |
| | @3 0.1 | | NR NR | CL | | Silty Clay, very dark brown (10YR 2/2) damp medium stiff, medium plasticity, no HC odor |
| 5 | @7.5 0.1 | | NR | CL CL | | at 4 feet color change to dark yellowish brown (10YR 3/6) |
| 10 | @10 0.1 | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

| ERAS Environmental | Log of Boring B-3 |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch baserock |
| | @3.5 / 0.1 | | NR | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp, medium stiff, medium plasticity, no HC odor |
| 5 | | | | CL | | |
| | @8 / 0.1 | | | CL | | |
| 10 | @10 / 0.1 | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-4

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 11 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch baserock |
| | 0.2 / 0.1 | | NR | CL | | Silty Clay, dark yellowish brown (10YR 3/6) low stiffness, medium plasticity, no HC odor |
| 5 | 0.65 / 0.2 | | NR | CL | | |
| 10 | 0.11 / 0.1 | | NR | CL | | at 9 feet change to stiff silty Clay |
| | | | | | | Bottom of Boring 11 feet bgs. 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-5

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @4 / 0.1 | | | CL | | Silty Clay, dark yellowish brown (10YR 3/6) damp, medium stiff, medium plasticity, no HC odor |
| 5 | | | | CL | | |
| | @8 / 0.1 | | | CL | | at 9 feet shift |
| 10 | @10 / 0.1 | | | | | Bottom at Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

| ERAS Environmental | Log of Boring B-6 |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @3.5 / 0.1 | NR | | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp, medium stiff, medium plasticity, no HC odor |
| 5 | | | | CL | | |
| | @7 / 2.1 | NR NR | | SM | | Silty Sand, dark yellowish brown (10YR3/6) damp low density, ~30% fines, ~70% fine to medium grain poorly graded sand, HC odor present |
| | @10 / 3.4 | | | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp stiff, medium plasticity, HC odor present |
| 10 | | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-7

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @1.5 / 0.1 | | | CL | | Silty Clay, dark yellowish brown (10YR3/6), damp, low stiffness, medium plasticity, no HCodor |
| | | | NR | | | |
| | | | NR | | | |
| | | | NR | | | |
| | | | NR | | | |
| | | | NR | | | |
| 5 | | | | CL | | |
| | @8 / 0.8 | | | | | |
| | | | | CL | | at 9 feet Stiff Silty Clay |
| | @10 / 1.2 | | | | | |
| 10 | | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

| ERAS Environmental | Log of Boring B-8 |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch baserock |
| | @8 0.1 | | NR NR NR NR | | | Silty Clay, dark yellowish brown (10YR3/6) damp, low stiffness, medium plasticity, no HC odor |
| 5 | | | | | | |
| | @8 0.1 | | | | | at 9 feet stiff silty clay |
| 10 | @10 0.1 | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-9

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @2 0.1 | | NR NR NR NR | CL | | Silty Clay, dark yellowish brown (10YR 3/6) damp, low stiffness, medium plasticity, no H2S odor |
| 5 | | | | CL | | |
| | @8 0.2 | | | CL | | at 9 feet stiff silty clay |
| 10 | @10 0.1 | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

| ERAS Environmental | Log of Boring B-10 |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 12 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @2' 0.1 | | NR NR NR NR | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp, low stiffness, medium plasticity, no odor |
| 5 | @6' 0.2 | | NR NR NR NR | CL | | |
| 10 | | | | CL | | at 9 feet silty clay |
| | @12' 0.1 | | | | | Bottom of Boring 12 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-11

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 12 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @2 / 0.1 | | NR | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp, low stickiness, medium plasticity, no HCodor |
| 5 | @5.5 / 0.1 | | NR | CL | | |
| 10 | @11 / 0.1 | | NR | CL | | at 9 feet start silty clay |
| | | | | | | Bottom of Boring 12 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

| ERAS Environmental | Log of Boring B-12 |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 12 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @2' 0.1 | | NR | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp, low stiffness, medium plasticity, mottled |
| | | | NR | | | |
| | | | NR | | | |
| 5 | | | NR | CL | | |
| | @7' 0.1 | | NR | | | |
| | | | NR | | | |
| | | | | CL | | at 9 feet start silty clay |
| 10 | @11' 0.1 | | NR | | | |
| | | | NR | | | Bottom of Boring 12 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

| ERAS Environmental | Log of Boring B-13 |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @3.5 / 0.1 | NR | | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp, medium stiff, medium plasticity, no H Codor |
| 5 | | | | | | |
| | @8 / 0.1 | | | CL | | |
| | @10 / 0.1 | | | CL | | at 9 feet stiff silty clay |
| 10 | | | | | | Bottom of Boring 10 feet bgs. 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-14

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch baserock |
| | @2 0.1 | | NR NR NR NR | CL | | Silty Clay, dark yellowish brown (10YR 3/6) damp, medium stiff, medium plasticity, mottled |
| 5 | | | | CL | | |
| | @8 0.1 | | | CL | | |
| 10 | @10 0.2 | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-15

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 12 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @3 0.1 | | NR NR | CL | | Silty Clay, very dark brown (10YR2/2) damp, medium stiff, medium plasticity, no HC odor at 3 feet low stiffness dark yellowish brown (10YR3/6) |
| 5 | @6 1.2 | | NR NR NR NR | SM | | Silty Sand, dark yellowish brown (10YR3/6) low density, ~30% fines, ~70% fine to medium grain poorly graded sand, no HC odor |
| 10 | @12 2.1 | | | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp stiff, medium plasticity, no HC odor |
| | | | | | | Bottom of Boring 12 feet bgs. 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

| ERAS Environmental | Log of Boring B-16 |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch baserock |
| | CL-S / 0.1 | | | CL | | Silty Clay, dark yellowish brown (10YR3/6) damp, low stiffness, medium plasticity, no HC odor |
| | | | NR | | | |
| | | | NR | | | |
| | | | NR | | | |
| | | | NR | | | |
| 5 | | | | CL | | |
| | CB / 0.1 | | | | | |
| | | | | CL | | at 9 feet silty clay |
| | @10 / 0.1 | | | | | |
| 10 | | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

# ERAS Environmental

**Log of Boring** B-17

| | |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | @3 0.1 | | NR NR | CL | | Silty, Clay, dark yellowish brown (10YR3/6) damp, low stiffness, medium plasticity, no H Odor |
| 5 | | | | CL | | |
| | @8 0.3 | | | CL | | at 9 feet start silty clay |
| 10 | @10 0.3 | | | | | Bottom of Borng 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

| ERAS Environmental | Log of Boring B-18 |
|---|---|
| PROJECT: 15091A | ADDRESS: 730-750 A Street |
| JOB NUMBER: 15091A | LOCATION: |
| DATE STARTED: June 16, 2015 | First Water (ft. bgs.): NA DATE: |
| DATE FINISHED: June 16, 2015 | TOTAL DEPTH: 10 feet |
| DRILLING METHOD: Hydraulic Push | GEOLOGIST: Andrew Savage |
| DRILLING COMPANY: ECA | Reviewed By: |

| DEPTH ft. | PID (ppm) | SAMPLE NO. | RECOVERY | GRAPHIC LOG | WATER LEVEL | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | | | | Concrete + 3/4 inch base rock |
| | e2' 0.1 | | NR NR NR | CL | | Silty Clay, dark yellowish brown (10YR 3/6) damp, low stiffness, medium plasticity, no H Odor |
| 5 | e6.5' 0.1 | | NR NR NR | CL | | |
| | | | | CL | | at 9 feet slight silty clay |
| 10 | e10' 0.1 | | | | | Bottom of Boring 10 feet bgs 6-16-15 |
| 15 | | | | | | |
| 20 | | | | | | |

ATTACHMENT D

STANDARD OPERATING PROCEDURES

# STANDARD OPERATING PROCEDURE – DIRECT PUSH BORINGS

## SOIL CORING AND SAMPLING PROCEDURES

Prior to drilling, all boreholes will be hand dug to a depth of 4-5 feet below ground surface (bgs) to check for underground utilities.

Soil and groundwater samples are collected for lithologic and chemical analyses using a direct driven soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores. As the rods are advanced, soil is driven into an approximately 2.5-inch-diamter sample barrel that is attached to the end of the rods. Soil samples are collected in sleeves inside the sample barrel as the rods are advanced. After being driven 4 to 5 feet into the ground, the rods are removed from the borehole. The sleeve containing the soil core is removed from the sample barrel, and can then be preserved for chemical analyses, or used for lithologic description. This process is repeated until the desired depth or instrument refusal is reached.

A soil core interval selected for analyses is cut from the sleeve using a pre-cleaned hacksaw. The ends of the tube are covered with aluminum foil or Teflon liner and sealed with plastic caps. The soil-filled liner is labeled with the bore number, sample depth, site location, date, and time. The samples are placed in bags and stored in a cooler containing ice. Soil from the core adjacent to the interval selected for analyses is placed in a plastic zip-top bag. The soil is allowed to volatilize for a period of time, depending on the ambient temperature. The soil is scanned with a flame-ionization detector (FID) or photo-ionization detector (PID).

All sample barrels, rods, and tools (e.g. hacksaw) are cleaned with Alconox or equivalent detergent and de-ionized water. All rinsate from the cleaning is contained in 55-gallon drums at the project site.

## GROUNDWATER SAMPLING FROM DIRECT PUSH BORINGS

After the targeted water-bearing zone has been penetrated, the soil-sample barrel is removed from the borehole. Small-diameter well casing with 0.010-inch slotted well screen may be installed in the borehole to facilitate the collection of groundwater samples. Threaded sections of PVC are lowered into the borehole. Groundwater samples may then be collected with a bailer, peristaltic pump, submersible or other appropriate pump until adequate sample volume is obtained. Perstaltic pumps are not used in applications requiring a lift of greater than 1 foot of net head.

Groundwater samples are preserved, stored in an ice-filled cooler, and are delivered, under chain-of-custody, to a laboratory certified by the California Department of Health Services (DHS) for hazardous materials analysis.

## BOREHOLE GROUTING FOR DIRECT PUSH BORINGS

Upon completion of soil and water sampling, boreholes will be abandoned with neat cement grout to the surface. If the borehole was advanced into groundwater, the grout is pumped through a grouting tube positioned at the bottom of the borehole.

# ATTACHMENT E

# LABORATORY REPORT AND CHAIN OF CUSTODY FORM

McCampbell Analytical, Inc.

*"When Quality Counts"*

# Analytical Report

**WorkOrder:** 1506768

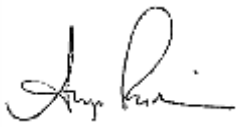
**Report Created for:** ERAS Environmental, Inc.

1533 B Street
Hayward, CA 94541

**Project Contact:** Andrew Savage
**Project P.O.:**
**Project Name:** #15091A; 730-750 A Street

**Project Received:** 06/17/2015

Analytical Report reviewed & approved for release on 06/24/2015 by:



Angela Rydelius,
Laboratory Manager



1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

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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:** ERAS Environmental, Inc.
**Project:** #15091A; 730-750 A Street
**WorkOrder:** 1506768

## 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) |
| 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. |
| 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

| | |
|---|---|
| a1 | sample diluted due to matrix interference |
| e2 | diesel range compounds are significant; no recognizable pattern |
| e7 | oil range compounds are significant |
| h4 | sulfuric acid permanganate (EPA 3665) cleanup |

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-1, 11-11.5 | 1506768-001A | Soil | 06/16/2015 08:37 | GC5A | 106495 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/19/2015 22:14 |
| Aroclor1221 | ND | 0.050 | 1 | 06/19/2015 22:14 |
| Aroclor1232 | ND | 0.050 | 1 | 06/19/2015 22:14 |
| Aroclor1242 | ND | 0.050 | 1 | 06/19/2015 22:14 |
| Aroclor1248 | ND | 0.050 | 1 | 06/19/2015 22:14 |
| Aroclor1254 | ND | 0.050 | 1 | 06/19/2015 22:14 |
| Aroclor1260 | ND | 0.050 | 1 | 06/19/2015 22:14 |
| PCBs, total | ND | 0.050 | 1 | 06/19/2015 22:14 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 72 | 70-130 | 06/19/2015 22:14 |

Analyst(s): SS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-2, 9.5-10 | 1506768-002A | Soil | 06/16/2015 08:48 | GC5A | 106495 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/19/2015 18:18 |
| Aroclor1221 | ND | 0.050 | 1 | 06/19/2015 18:18 |
| Aroclor1232 | ND | 0.050 | 1 | 06/19/2015 18:18 |
| Aroclor1242 | ND | 0.050 | 1 | 06/19/2015 18:18 |
| Aroclor1248 | ND | 0.050 | 1 | 06/19/2015 18:18 |
| Aroclor1254 | ND | 0.050 | 1 | 06/19/2015 18:18 |
| Aroclor1260 | ND | 0.050 | 1 | 06/19/2015 18:18 |
| PCBs, total | ND | 0.050 | 1 | 06/19/2015 18:18 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 74 | 70-130 | 06/19/2015 18:18 |

Analyst(s): SS

*(Cont.)*

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

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-3, 9.5-10** | **1506768-003A** | **Soil** | **06/16/2015 09:02** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 06:20 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 06:20 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 06:20 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 06:20 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 06:20 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 06:20 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 06:20 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 06:20 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 76 | 70-130 | 06/20/2015 06:20 |

Analyst(s): SS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-4, 10.5-11** | **1506768-004A** | **Soil** | **06/16/2015 09:15** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 16:25 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 16:25 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 16:25 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 16:25 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 16:25 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 16:25 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 16:25 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 16:25 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 75 | 70-130 | 06/20/2015 16:25 |

Analyst(s): SS

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-5, 9.5-10 | 1506768-005A | Soil | 06/16/2015 09:57 | GC5A | 106495 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 20:51 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 20:51 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 20:51 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 20:51 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 20:51 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 20:51 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 20:51 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 20:51 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 73 | 70-130 | 06/20/2015 20:51 |

Analyst(s): SS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-6, 9.5-10 | 1506768-006A | Soil | 06/16/2015 10:10 | GC5A | 106495 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 2.5 | 50 | 06/22/2015 14:34 |
| Aroclor1221 | ND | 2.5 | 50 | 06/22/2015 14:34 |
| Aroclor1232 | ND | 2.5 | 50 | 06/22/2015 14:34 |
| Aroclor1242 | ND | 2.5 | 50 | 06/22/2015 14:34 |
| Aroclor1248 | ND | 2.5 | 50 | 06/22/2015 14:34 |
| Aroclor1254 | ND | 2.5 | 50 | 06/22/2015 14:34 |
| Aroclor1260 | ND | 2.5 | 50 | 06/22/2015 14:34 |
| PCBs, total | ND | 2.5 | 50 | 06/22/2015 14:34 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 111 | 70-130 | 06/22/2015 14:34 |

Analyst(s): CK Analytical Comments: a1,h4

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-7, 9.5-10** | **1506768-007A** | **Soil** | **06/16/2015 09:28** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 17:42 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 17:42 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 17:42 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 17:42 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 17:42 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 17:42 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 17:42 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 17:42 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 78 | 70-130 | 06/20/2015 17:42 |

Analyst(s): SS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-8, 9.5-10** | **1506768-008A** | **Soil** | **06/16/2015 09:43** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 17:03 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 17:03 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 17:03 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 17:03 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 17:03 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 17:03 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 17:03 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 17:03 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 76 | 70-130 | 06/20/2015 17:03 |

Analyst(s): SS

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-9, 9.5-10** | **1506768-009A** | **Soil** | **06/16/2015 10:42** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 08:50 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 08:50 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 08:50 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 08:50 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 08:50 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 08:50 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 08:50 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 08:50 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 75 | 70-130 | 06/20/2015 08:50 |

Analyst(s): SS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-10, 11.5-12** | **1506768-010A** | **Soil** | **06/16/2015 11:01** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 07:35 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 07:35 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 07:35 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 07:35 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 07:35 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 07:35 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 07:35 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 07:35 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 74 | 70-130 | 06/20/2015 07:35 |

Analyst(s): SS

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-11, 10.5-11** | **1506768-011A** | **Soil** | **06/16/2015 11:11** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 09:27 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 09:27 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 09:27 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 09:27 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 09:27 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 09:27 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 09:27 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 09:27 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 75 | 70-130 | 06/20/2015 09:27 |

Analyst(s): SS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-12, 10.5-11** | **1506768-012A** | **Soil** | **06/16/2015 11:21** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/19/2015 17:40 |
| Aroclor1221 | ND | 0.050 | 1 | 06/19/2015 17:40 |
| Aroclor1232 | ND | 0.050 | 1 | 06/19/2015 17:40 |
| Aroclor1242 | ND | 0.050 | 1 | 06/19/2015 17:40 |
| Aroclor1248 | ND | 0.050 | 1 | 06/19/2015 17:40 |
| Aroclor1254 | ND | 0.050 | 1 | 06/19/2015 17:40 |
| Aroclor1260 | ND | 0.050 | 1 | 06/19/2015 17:40 |
| PCBs, total | ND | 0.050 | 1 | 06/19/2015 17:40 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 73 | 70-130 | 06/19/2015 17:40 |

Analyst(s): SS

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-13, 9.5-10** | **1506768-013A** | **Soil** | **06/16/2015 11:36** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 06:57 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 06:57 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 06:57 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 06:57 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 06:57 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 06:57 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 06:57 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 06:57 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 73 | 70-130 | 06/20/2015 06:57 |

Analyst(s): SS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-14, 9.5-10** | **1506768-014A** | **Soil** | **06/16/2015 11:47** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 05:43 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 05:43 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 05:43 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 05:43 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 05:43 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 05:43 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 05:43 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 05:43 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 74 | 70-130 | 06/20/2015 05:43 |

Analyst(s): SS

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-15, 11.5-12 | 1506768-015A | Soil | 06/16/2015 10:21 | GC5A | 106495 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.50 | 10 | 06/22/2015 13:57 |
| Aroclor1221 | ND | 0.50 | 10 | 06/22/2015 13:57 |
| Aroclor1232 | ND | 0.50 | 10 | 06/22/2015 13:57 |
| Aroclor1242 | ND | 0.50 | 10 | 06/22/2015 13:57 |
| Aroclor1248 | ND | 0.50 | 10 | 06/22/2015 13:57 |
| Aroclor1254 | ND | 0.50 | 10 | 06/22/2015 13:57 |
| Aroclor1260 | ND | 0.50 | 10 | 06/22/2015 13:57 |
| PCBs, total | ND | 0.50 | 10 | 06/22/2015 13:57 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 86 | 70-130 | 06/22/2015 13:57 |

Analyst(s): CK  Analytical Comments: a1,h4

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-16, 6.5-10 | 1506768-016A | Soil | 06/16/2015 13:51 | GC5A | 106495 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 08:12 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 08:12 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 08:12 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 08:12 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 08:12 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 08:12 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 08:12 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 08:12 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 75 | 70-130 | 06/20/2015 08:12 |

Analyst(s): SS

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8082 |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-17, 9.5-10** | **1506768-017A** | **Soil** | **06/16/2015 14:04** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/20/2015 10:05 |
| Aroclor1221 | ND | 0.050 | 1 | 06/20/2015 10:05 |
| Aroclor1232 | ND | 0.050 | 1 | 06/20/2015 10:05 |
| Aroclor1242 | ND | 0.050 | 1 | 06/20/2015 10:05 |
| Aroclor1248 | ND | 0.050 | 1 | 06/20/2015 10:05 |
| Aroclor1254 | ND | 0.050 | 1 | 06/20/2015 10:05 |
| Aroclor1260 | ND | 0.050 | 1 | 06/20/2015 10:05 |
| PCBs, total | ND | 0.050 | 1 | 06/20/2015 10:05 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 75 | 70-130 | 06/20/2015 10:05 |

Analyst(s): SS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-18, 9.5-10** | **1506768-018A** | **Soil** | **06/16/2015 14:18** | **GC5A** | **106495** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 06/19/2015 09:17 |
| Aroclor1221 | ND | 0.050 | 1 | 06/19/2015 09:17 |
| Aroclor1232 | ND | 0.050 | 1 | 06/19/2015 09:17 |
| Aroclor1242 | ND | 0.050 | 1 | 06/19/2015 09:17 |
| Aroclor1248 | ND | 0.050 | 1 | 06/19/2015 09:17 |
| Aroclor1254 | ND | 0.050 | 1 | 06/19/2015 09:17 |
| Aroclor1260 | ND | 0.050 | 1 | 06/19/2015 09:17 |
| PCBs, total | ND | 0.050 | 1 | 06/19/2015 09:17 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 74 | 70-130 | 06/19/2015 09:17 |

Analyst(s): CK

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B/3630C |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8015B |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/Kg |

## Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-1, 11-11.5 | 1506768-001A | Soil | 06/16/2015 08:37 | GC6B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 15:02 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 89 | 70-130 | 06/21/2015 15:02 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-2, 9.5-10 | 1506768-002A | Soil | 06/16/2015 08:48 | GC6B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 13:51 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 92 | 70-130 | 06/21/2015 13:51 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-3, 9.5-10 | 1506768-003A | Soil | 06/16/2015 09:02 | GC6B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 11:28 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 95 | 70-130 | 06/21/2015 11:28 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-4, 10.5-11 | 1506768-004A | Soil | 06/16/2015 09:15 | GC6B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 10:17 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 92 | 70-130 | 06/21/2015 10:17 |

Analyst(s): TK

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B/3630C |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8015B |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/Kg |

## Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-5, 9.5-10 | 1506768-005A | Soil | 06/16/2015 09:57 | GC6B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 07:55 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 90 | 70-130 | | 06/21/2015 07:55 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-6, 9.5-10 | 1506768-006A | Soil | 06/16/2015 10:10 | GC2A | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | **10,000** | 250 | 50 | 06/19/2015 10:35 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 108 | 70-130 | | 06/19/2015 10:35 |

Analyst(s): TK Analytical Comments: e7,e2

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-7, 9.5-10 | 1506768-007A | Soil | 06/16/2015 09:28 | GC6B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | **20** | 5.0 | 1 | 06/21/2015 03:12 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 93 | 70-130 | | 06/21/2015 03:12 |

Analyst(s): TK Analytical Comments: e7,e2

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-8, 9.5-10 | 1506768-008A | Soil | 06/16/2015 09:43 | GC2B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 06:21 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 96 | 70-130 | | 06/21/2015 06:21 |

Analyst(s): TK

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B/3630C |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8015B |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/Kg |

## Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-9, 9.5-10 | 1506768-009A | Soil | 06/16/2015 10:42 | GC6B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 06:44 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 101 | 70-130 | | 06/21/2015 06:44 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-10, 11.5-12 | 1506768-010A | Soil | 06/16/2015 11:01 | GC11A | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/23/2015 19:00 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 114 | 70-130 | | 06/23/2015 19:00 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-11, 10.5-11 | 1506768-011A | Soil | 06/16/2015 11:11 | GC6A | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 04:23 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 106 | 70-130 | | 06/21/2015 04:23 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| B-12, 10.5-11 | 1506768-012A | Soil | 06/16/2015 11:21 | GC2B | 106485 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | **34** | 5.0 | 1 | 06/21/2015 07:36 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 98 | 70-130 | | 06/21/2015 07:36 |

Analyst(s): TK  Analytical Comments: e7,e2

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B/3630C |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8015B |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/Kg |

## Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-13, 9.5-10** | **1506768-013A** | **Soil** | **06/16/2015 11:36** | **GC6A** | **106485** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 05:33 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 101 | 70-130 | | 06/21/2015 05:33 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-14, 9.5-10** | **1506768-014A** | **Soil** | **06/16/2015 11:47** | **GC11A** | **106485** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/23/2015 20:08 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 106 | 70-130 | | 06/23/2015 20:08 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-15, 11.5-12** | **1506768-015A** | **Soil** | **06/16/2015 10:21** | **GC11A** | **106485** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | **2500** | 250 | 50 | 06/19/2015 01:30 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 88 | 70-130 | | 06/19/2015 01:30 |

Analyst(s): TK Analytical Comments: e7,e2

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-16, 6.5-10** | **1506768-016A** | **Soil** | **06/16/2015 13:51** | **GC11A** | **106485** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/23/2015 22:26 |
| **Surrogates** | **REC (%)** | **Limits** | | |
| C9 | 105 | 70-130 | | 06/23/2015 22:26 |

Analyst(s): TK

*(Cont.)*

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

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Project:** | #15091A; 730-750 A Street | **Extraction Method:** | SW3550B/3630C |
| **Date Received:** | 6/17/15 21:09 | **Analytical Method:** | SW8015B |
| **Date Prepared:** | 6/17/15 | **Unit:** | mg/Kg |

## Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-17, 9.5-10** | **1506768-017A** | **Soil** | **06/16/2015 14:04** | **GC11A** | **106485** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | **5.6** | 5.0 | 1 | 06/23/2015 21:17 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 111 | 70-130 | 06/23/2015 21:17 |

Analyst(s): TK  Analytical Comments: e7,e2

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **B-18, 9.5-10** | **1506768-018A** | **Soil** | **06/16/2015 14:18** | **GC6B** | **106485** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Hydraulic Oil (C18-C36) | ND | 5.0 | 1 | 06/21/2015 02:01 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 93 | 70-130 | 06/21/2015 02:01 |

Analyst(s): TK

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Date Prepared:** | 6/17/15 | **BatchID:** | 106495 |
| **Date Analyzed:** | 6/20/15 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC5A | **Analytical Method:** | SW8082 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | #15091A; 730-750 A Street | **Sample ID:** | MB/LCS-106495<br>1506768-018AMS/MSD |

## QC Summary Report for SW8082

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| Aroclor1016 | ND | - | 0.050 | - | - | - | - |
| Aroclor1221 | ND | - | 0.050 | - | - | - | - |
| Aroclor1232 | ND | - | 0.050 | - | - | - | - |
| Aroclor1242 | ND | - | 0.050 | - | - | - | - |
| Aroclor1248 | ND | - | 0.050 | - | - | - | - |
| Aroclor1254 | ND | - | 0.050 | - | - | - | - |
| Aroclor1260 | ND | 0.112 | 0.050 | 0.15 | - | 75 | 70-130 |
| PCBs, total | ND | - | 0.050 | - | - | - | - |
| **Surrogate Recovery** | | | | | | | |
| Decachlorobiphenyl | 0.0378 | 0.0378 | | 0.050 | 76 | 76 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor1260 | 0.119 | 0.124 | 0.15 | ND | 80 | 82 | 70-130 | 3.45 | 30 |
| **Surrogate Recovery** | | | | | | | | | |
| Decachlorobiphenyl | 0.0375 | 0.0367 | 0.050 | | 75 | 73 | 70-130 | 2.35 | 30 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | ERAS Environmental, Inc. | **WorkOrder:** | 1506768 |
| **Date Prepared:** | 6/17/15 | **BatchID:** | 106485 |
| **Date Analyzed:** | 6/18/15 | **Extraction Method:** | SW3550B/3630C |
| **Instrument:** | GC2B, GC6A | **Analytical Method:** | SW8015B |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | #15091A; 730-750 A Street | **Sample ID:** | MB/LCS-106485<br>1506758-001AMS/MSD |

## QC Report for SW8015B w/ SG Clean-Up

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| TPH-Diesel (C10-C23) | ND | 46.9 | 1.0 | 40 | - | 117 | 70-130 |
| TPH-Motor Oil (C18-C36) | ND | - | 5.0 | - | - | - | - |
| **Surrogate Recovery** | | | | | | | |
| C9 | 23.0 | 27.2 | | 25 | 92 | 109 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| TPH-Diesel (C10-C23) | 55.9 | 56.1 | 40 | 11.55 | 111 | 111 | 70-130 | 0 | 30 |
| **Surrogate Recovery** | | | | | | | | | |
| C9 | 22.8 | 22.0 | 25 | | 91 | 88 | 70-130 | 3.51 | 30 |

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# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 1506768** **ClientCode: ERAS**

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

**Report to:**
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: #15091A; 730-750 A Street

**Bill to:**
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

**Requested TAT:** 5 days

***Date Received:*** **06/17/2015**
***Date Printed:*** **06/17/2015**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1506768-001 | B-1, 11-11.5 | Soil | 6/16/2015 8:37 | ☐ | A | A | | | | | | | | | | |
| 1506768-002 | B-2, 9.5-10 | Soil | 6/16/2015 8:48 | ☐ | A | A | | | | | | | | | | |
| 1506768-003 | B-3, 9.5-10 | Soil | 6/16/2015 9:02 | ☐ | A | A | | | | | | | | | | |
| 1506768-004 | B-4, 10.5-11 | Soil | 6/16/2015 9:15 | ☐ | A | A | | | | | | | | | | |
| 1506768-005 | B-5, 9.5-10 | Soil | 6/16/2015 9:57 | ☐ | A | A | | | | | | | | | | |
| 1506768-006 | B-6, 9.5-10 | Soil | 6/16/2015 10:10 | ☐ | A | A | | | | | | | | | | |
| 1506768-007 | B-7, 9.5-10 | Soil | 6/16/2015 9:28 | ☐ | A | A | | | | | | | | | | |
| 1506768-008 | B-8, 9.5-10 | Soil | 6/16/2015 9:43 | ☐ | A | A | | | | | | | | | | |
| 1506768-009 | B-9, 9.5-10 | Soil | 6/16/2015 10:42 | ☐ | A | A | | | | | | | | | | |
| 1506768-010 | B-10, 11.5-12 | Soil | 6/16/2015 11:01 | ☐ | A | A | | | | | | | | | | |
| 1506768-011 | B-11, 10.5-11 | Soil | 6/16/2015 11:11 | ☐ | A | A | | | | | | | | | | |
| 1506768-012 | B-12, 10.5-11 | Soil | 6/16/2015 11:21 | ☐ | A | A | | | | | | | | | | |
| 1506768-013 | B-13, 9.5-10 | Soil | 6/16/2015 11:36 | ☐ | A | A | | | | | | | | | | |
| 1506768-014 | B-14, 9.5-10 | Soil | 6/16/2015 11:47 | ☐ | A | A | | | | | | | | | | |
| 1506768-015 | B-15, 11.5-12 | Soil | 6/16/2015 10:21 | ☐ | A | A | | | | | | | | | | |

**Test Legend:**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8082_PCB_S | 2 | TPH-WSG_S | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

**Prepared by: Jena Alfaro**

**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.

McCampbell Analytical, Inc.
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# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 1506768** **ClientCode: ERAS**

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

**Report to:**
Andrew Savage
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541
(510) 247-9885 FAX: (510) 886-5399

Email: info@eras.biz; andrew@eras.biz
cc/3rd Party:
PO:
ProjectNo: #15091A; 730-750 A Street

**Bill to:**
Kasey Cordoza
ERAS Environmental, Inc.
1533 B Street
Hayward, CA 94541

**Requested TAT:** 5 days

***Date Received:*** **06/17/2015**
***Date Printed:*** **06/17/2015**

| 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 |
| 1506768-016 | B-16, 6.5-10 | Soil | 6/16/2015 13:51 | ☐ | A | A | | | | | | | | | | |
| 1506768-017 | B-17, 9.5-10 | Soil | 6/16/2015 14:04 | ☐ | A | A | | | | | | | | | | |
| 1506768-018 | B-18, 9.5-10 | Soil | 6/16/2015 14:18 | ☐ | A | A | | | | | | | | | | |

**Test Legend:**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8082_PCB_S | 2 | TPH-WSG_S | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

**Prepared by: Jena Alfaro**

**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:** ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1506768
**Project:** #15091A; 730-750 A Street **Client Contact:** Andrew Savage **Date Received:** 6/17/2015
**Comments:** **Contact's Email:** info@eras.biz; andrew@eras.biz

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| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1506768-001A | B-1, 11-11.5 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 8:37 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-002A | B-2, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 8:48 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-003A | B-3, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 9:02 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-004A | B-4, 10.5-11 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 9:15 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-005A | B-5, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 9:57 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-006A | B-6, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 10:10 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-007A | B-7, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 9:28 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 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.**

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# WORK ORDER SUMMARY

**Client Name:** ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1506768
**Project:** #15091A; 730-750 A Street **Client Contact:** Andrew Savage **Date Received:** 6/17/2015
**Comments:** **Contact's Email:** info@eras.biz; andrew@eras.biz

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| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1506768-008A | B-8, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 9:43 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-009A | B-9, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 10:42 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-010A | B-10, 11.5-12 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 11:01 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-011A | B-11, 10.5-11 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 11:11 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-012A | B-12, 10.5-11 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 11:21 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-013A | B-13, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 11:36 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-014A | B-14, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 11:47 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 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.**

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# WORK ORDER SUMMARY

**Client Name:** ERAS ENVIRONMENTAL, INC. **QC Level:** LEVEL 2 **Work Order:** 1506768
**Project:** #15091A; 730-750 A Street **Client Contact:** Andrew Savage **Date Received:** 6/17/2015
**Comments:** **Contact's Email:** info@eras.biz; andrew@eras.biz

☐ 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1506768-015A | B-15, 11.5-12 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 10:21 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-016A | B-16, 6.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 13:51 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-017A | B-17, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 14:04 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 days | | ☐ | |
| 1506768-018A | B-18, 9.5-10 | Soil | SW8015B (TEPHs w/ S.G. Clean-Up) <TPH-Hydraulic Oil (C18-C36)> | 1 | Acetate Liner | ☐ | 6/16/2015 14:18 | 5 days | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 5 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.**

# CHAIN OF CUSTODY FORM

1506768


**McCampbell Analytical, Inc**
**1534 Willow Pass Rd.**
**Pittsburg, CA 94565**
**877.252.9262**
**925.252.9269 - fax**


**Turnaround Time:** Rush | 24Hr | 48 Hr | 72 Hr | X 5 Day

**Geotracker:** PDF | Excel | Write On (DW

**Report To:** ERAS **Bill To:** ERAS

**Company:** ERAS Environmental, Inc.

**Email:** info@eras.biz

**Telephone:** 510-247-9885 **Fax:** 510-886-5399

**Project #** 15091A

**Project location** 730-750 A Street

**Sampler:** Andrew

| Sample ID | Location/Field Point Name | Sampling Date | Sampling Time | # of Containers | Container Type | Matrix: Soil | Matrix: Water | Matrix: Waste | Matrix: | Preservative: HCL | Preservative: H2SO4 | Preservative: HNO3 | Preservative: ICE | Preservative: None | Analysis Requested: TPH as Hydraulic Oil by EPA 8015 with silica gel cleanup | Analysis Requested: PCB's by EPA 8082 | Other | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1, 11-11.5 | | 6/16/2015 | 8:37 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-2, 9.5-10 | | 6/16/2015 | 8:48 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-3, 9.5-10 | | 6/16/2015 | 9:02 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-4, 10.5-11 | | 6/16/2015 | 9:15 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-5, 9.5-10 | | 6/16/2015 | 9:57 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-6, 9.5-10 | | 6/16/2015 | 10:10 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-7, 9.5-10 | | 6/16/2015 | 9:28 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-8, 9.5-10 | | 6/16/2015 | 9:43 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-9, 9.5-10 | | 6/16/2015 | 10:42 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-10, 11.5-12 | | 6/16/2015 | 11:01 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-11, 10.5-11 | | 6/16/2015 | 11:11 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-12, 10.5-11 | | 6/16/2015 | 11:21 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-13, 9.5-10 | | 6/16/2015 | 11:36 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-14, 9.5-10 | | 6/16/2015 | 11:47 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-15, 11.5-12 | | 6/16/2015 | 10:21 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-16, 6.5-10 | | 6/16/2015 | 13:51 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-17, 9.5-10 | | 6/16/2015 | 14:04 | 1 | Tube | X | | | | | | | X | | X | X | | |
| B-18, 9.5-10 | | 6/16/2015 | 14:18 | 1 | Tube | X | | | | | | | X | | X | X | | |

**RELINQUISHED BY:** **RECEIVED BY:**

| Relinquished by: | Date: | Time: | Recieved by: |
|---|---|---|---|
| Relinquished by: | Date: 6/17/15 | Time: 12pm | Recieved by: |
| Relinquished by: | Date: 6/17 | Time: 1700 | Recieved by: |
| Relinquished by: | Date: | Time: | Recieved by: |

| | |
|---|---|
| ICE/t° | 5.6 |
| Condition | |
| Head space absent | |
| Dechlorinated in lab | |
| Appropriate containers | |
| Preserved in Lab | |
| Preservation | VOA's / O&G / Metals / Other: pH<2 |

Comments: Please PDF

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

# Sample Receipt Checklist

Client Name: **ERAS Environmental, Inc.** Date and Time Received: **6/17/2015 9:09:25 PM**

Project Name: **#15091A; 730-750 A Street** LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1506768** Matrix: Soil Carrier: Benjamin Yslas (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: 5.6°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: