**RECEIVED**
*By Alameda County Environmental Health 8:50 am, Jul 26, 2016*

20 July 2016

Mr. Karel Detterman, P.G.
Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
San Francisco, CA 94102

**Re: Underground Storage Tank Removal Report Dated 19 July 2016**
**3093 Broadway, Oakland, CA**
**Site Cleanup Program Case No. Rooooo199**

Dear Ms. Detterman,

Please find attached *Underground Storage Tank Removal Report*, dated 19 July 2016 for the Former Connell Oldsmobile site, located at 3093 Broadway in Oakland, California. The Report was prepared by Langan Treadwell Rollo.

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

---

**OWNER:**

**3093 BROADWAY HOLDINGS, L.L.C.**

**By: 3093 BROADWAY VENTURE, L.L.C.,**
**as its sole member**

**By: CV 3093 Broadway, LLC,**
**as its Administrative Member**

By: _____

Name: Stephen Siri

Title: Principal

# UNDERGROUND STORAGE TANK REMOVAL REPORT
# 3093 Broadway
# Oakland, California

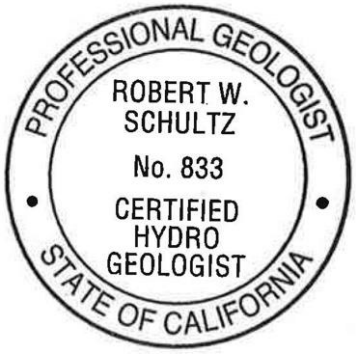
***Prepared For:***

**3093 Broadway Holdings, L.L.C.**
**44 Montgomery Street, Suite 4050**
**San Francisco, CA 94104**

***Prepared By:***

**Langan Treadwell Rollo**
**555 Montgomery Street, Suite 1300**
**San Francisco, California 94111**

**Tyler Houghton**
**Senior Staff Geologist**




**Robert W. Schultz, CHG**
**Senior Project Manager**

**19 July 2016**
**731637001**

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# UNDERGROUND STORAGE TANK REMOVAL REPORT
# 3093 Broadway
# Oakland, California

## 1.0 INTRODUCTION

This report describes the removal of one approximately 1,100-gallon underground storage tank (UST) from the property located at 3093 Broadway, Oakland, California (the Site; Figure 1). Langan Treadwell Rollo (Langan) observed the UST removal activities, collected and analyzed a soil sample, and prepared this report. In accordance with the 29 October 2015 Construction Soil and Groundwater Management Plan (CSGMP) for the Site, Langan notified the Alameda County Department of Environmental Health (ACEH) when the UST was discovered, and the excavation contractor submitted a UST Closure Permit Application to the ACEH. The ACEH observed the removal, directed soil sampling, and requested this report.

## 2.0 BACKGROUND

The Site consists of approximately 3.4 acres of land and is currently being developed for mixed commercial and residential use. The Site is bounded by Broadway to the east, Hawthorne Avenue to the north, Webster Street to the west, and commercial property to the south. The development will include a commercial strip fronting Broadway and a parking garage on the ground floor. Residential units will be developed on the third story and higher. Excavation of the site is part of the development, and is an element of the soil corrective action implementation described in the 21 May 2015 Feasibility Study and Corrective Action Plan (FS/CAP) for the Site. The UST was uncovered 10 June 2016 during site excavation, and its presence at the Site was previously unknown. The UST was cordoned off and covered with plastic sheeting from discovery until removal.

The Site is underlain by unconsolidated sediments ranging from silty clays to sandy gravels. The surficial geology is mapped as the Temescal Formation, which consists of quaternary age alluvial fan deposits comprised of interbedded layers of silt, sand, clay, and gravel (Radbrush, 1957). Previous investigations at the Site have recorded predominantly fine-grained, low permeability deposits consisting of clayey to sandy silts and silty clay, with occasional thin beds of sand and silty sand (Langan, 2014). In the area of the former UST, the anticipated depth to groundwater beneath the current site grade (which is approximately 52 feet above mean sea

level (MSL)) is approximately 13 to 15 feet. The interpreted groundwater flow direction at the site has generally ranged between southeastward and east-southeastward.

## 3.0 FIELD ACTIVITIES

On 8 July 2016, Pacific States Environmental Contractors, Inc. of Dublin, California, removed the UST and Langan collected a soil sample from beneath the former UST. Field activities performed as part of these two tasks are described below.

### 3.1 Removal of 1,100-Gallon Unknown Use Underground Storage Tank

The UST was located beneath a former parking lot at 3093 Broadway, Oakland, south of the former dealership service bay. The surveyor's map of the tank location is included as Appendix A. Excavation continued around the tank while the tank was covered with plastic until permitting was completed and disposal was scheduled. The approximately 1,100-gallon UST measured approximately 12 feet in length and 4.5 feet in diameter, and was oriented approximately east-to-west. The area around the UST had been excavated to the desired grade, so at the time of removal the tank was sitting on a pad of material about a foot above the surrounding grade.

The UST was removed following approval of the underground storage tank closure plan by the ACEH. The Oakland Fire Department (OFD) was notified prior to the removal. Copies of the permits, notifications, and inspection records are presented in Appendix B.

Mr. Robert Weston, ACEH Senior Hazardous Materials Specialist, Mrs. Karel Detterman, ACEH Hazardous Materials Specialist, and Ms. Sheryl Skillem, Haz-Mat Inspector for the Oakland Fire Department, Fire Prevention Bureau, were present during the tank removal activities. After the UST was exposed, it was visually inspected and checked with a Photoionization Detector (PID). The tank was of single-wall steel construction with what appeared to be fill and suction ports towards the western end of the tank. The UST was rusted with several holes in the side with the ports. A smaller hole was also observed on the opposite side of the tank. No piping was connected to the tank when discovered.

After receiving approval to continue from Ms. Skillem, Pacific States lifted the tank from its location using an excavator and loaded it onto a truck. Environmental Logistics transported the tank under manifest to Ecology Control Industries, where it was disposed. A copy of the hazardous waste manifest and disposal record is provided in Appendix C. No obvious soil staining, odors, or groundwater were observed during the removal process.

### 3.2 Soil Sampling

Under direction of the ACEH, one sample was gathered approximately 2 feet below the bottom of the former tank. Figure 2 shows the sample location. At the time of removal the area around the former tank had been excavated and the tank exposed. Accordingly, no sidewall samples were collected. The sample was obtained by potholing beneath the center of the former tank to two feet below the former tank bottom and then driving a two-inch-diameter stainless steel tube directly into undisturbed soil at the bottom of the pothole. The ends of the sample tubes were covered with Teflon and plastic caps. No soil was stockpiled during the tank removal. No staining or odors were observed during the tank removal or soil sampling processes. Following sample collection the pothole was backfilled, as approved by the ACEH.

## 4.0 ANALYTICAL TESTING

The soil sample was delivered under chain of custody control to McCampbell Analytical, Inc., a California certified analytical laboratory in Pittsburg, California. The sample was analyzed for the following constituents**:**

- Total petroleum hydrocarbons as diesel (TPH-d) using EPA Method 8015M;
- Total petroleum hydrocarbons as motor oil (TPH-mo) using EPA 8015M;
- Total petroleum hydrocarbons as gasoline (TPH-g) using EPA 8260B;
- Volatile organic compounds (VOCs) by EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270C; and,
- LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc) by EPA method 6020.

Analysis for these compounds is specified by the ACEH in the "Minimum Verification Analysis for Underground Storage Tank Leak Sites" (revision date 30 April 2015) for tanks used to store "Unknown Oil."

## 5.0 ANALYTICAL RESULTS

The analytical results of the soil sample from the UST excavation are presented in Table 1. A copy of the certified laboratory report for the analyses described above is presented in Appendix D. No TPH-g, TPH-d, TPH-mo, VOCs, or SVOCs, including or BTEX and the fuel additives or oxygenates MTBE, EDB, EDC, TAME, ETBE, DIPE, TBA, were detected at or above the laboratory reporting limits. The detected LUFT 5 metals concentrations were within the range of previously detected metals concentrations in soils at the Site.

## 6.0 CONCLUSIONS

Based on the analytical results for the soil sample collected from beneath the former UST, the underlying soil was not adversely affected by the past use of the UST at the Site. No further investigation or soil removal is warranted. On behalf of 3093 Broadway L.L.C., we request that the ACEH issue notice of closure of this former UST.

## 7.0 REFERENCES

Radbrush, Dorothy, 1957, Areal and Engineering Geology of the Oakland West Quadrangle, California.

Langan, 2014, Conceptual Site Model, 3093 Broadway, Oakland, California. October 24.

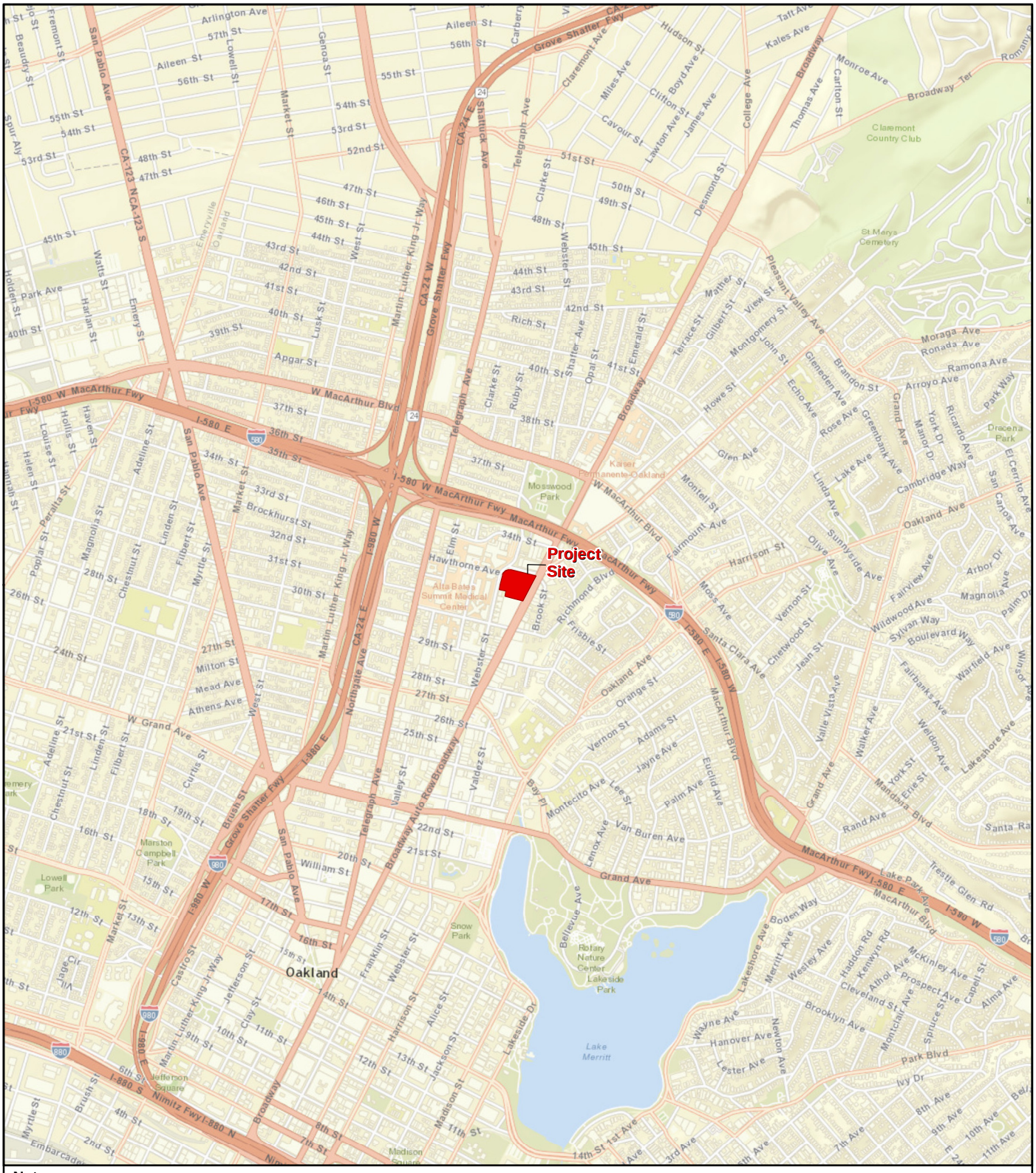
**TABLE**

# Table 1
## Soil Analytical Results
## 3093 Broadway
## Oakland, California

| Sample ID | Depth (feet) | Date Sampled | TPHg | TPHd | TPHmo | VOCs | SVOCs | PCBs | Cadmium | Chromium (total) | Lead | Nickel | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (mg/kg) | | | | | | | | | | |
| UST-2 | 2.0 | 7/8/2016 | <0.25 | <1.0 | <5.0 | ND | ND | ND | 0.28 | 59 | 3.9 | 48 | 43 |
| Environmental Screening Levels | | | | | | | | | | | | | |
| ESL | | | 100 | 230 | 5100 | [1] | [2] | 0.25 [3] | 39 | NE | 80 | 86 | 23000 |

Notes:
mg/kg - milligrams per kilograms
ESL - Tier 1 Environmental Screening Levels, Regional Water Quality Control Board, San Francisco Bay Region, February 2016
TPHg - Total Petroleum Hydrocarbons as Gasoline using EPA Method 8260B
TPHd - Total Petroleum Hydrocarbons as Diesel Range using EPA Method 8015M
TPHmo - Total Petroleum Hydrocarbons as Motor Oil using EPA Method 8015M
VOCs - Volatile Organics using EPA Method SW8260B
SVOCs - Semi-Volatile Organics using EPA Method SW8270C
PCBs - Polychlorinated Biphenyls using EPA Method 8082
LUFT 5 - Metals using EPA Method SW6020
ND - Not detected at or above the laboratory reporting limit, see attached Laboratory report for reporting limits
< 1.0 - Analyte was not detected above the laboratory reporting limit (1.0 mg/kg)
NE - Not established
[1] - VOCs were not detected above the laboratory reporting limit
[2] - SVOCs were not detected above the laboratory reporting limit
[3] - PCBs were not detected above the laboratory reporting limit

# FIGURES




**Notes:**

1. World street basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Credits: Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN.
2. Map displayed in California State Plane Coordinate System, Zone III, North American Datum of 1983 (NAD83), US Survey Feet.

0 1,000 2,000 4,000

Feet

N

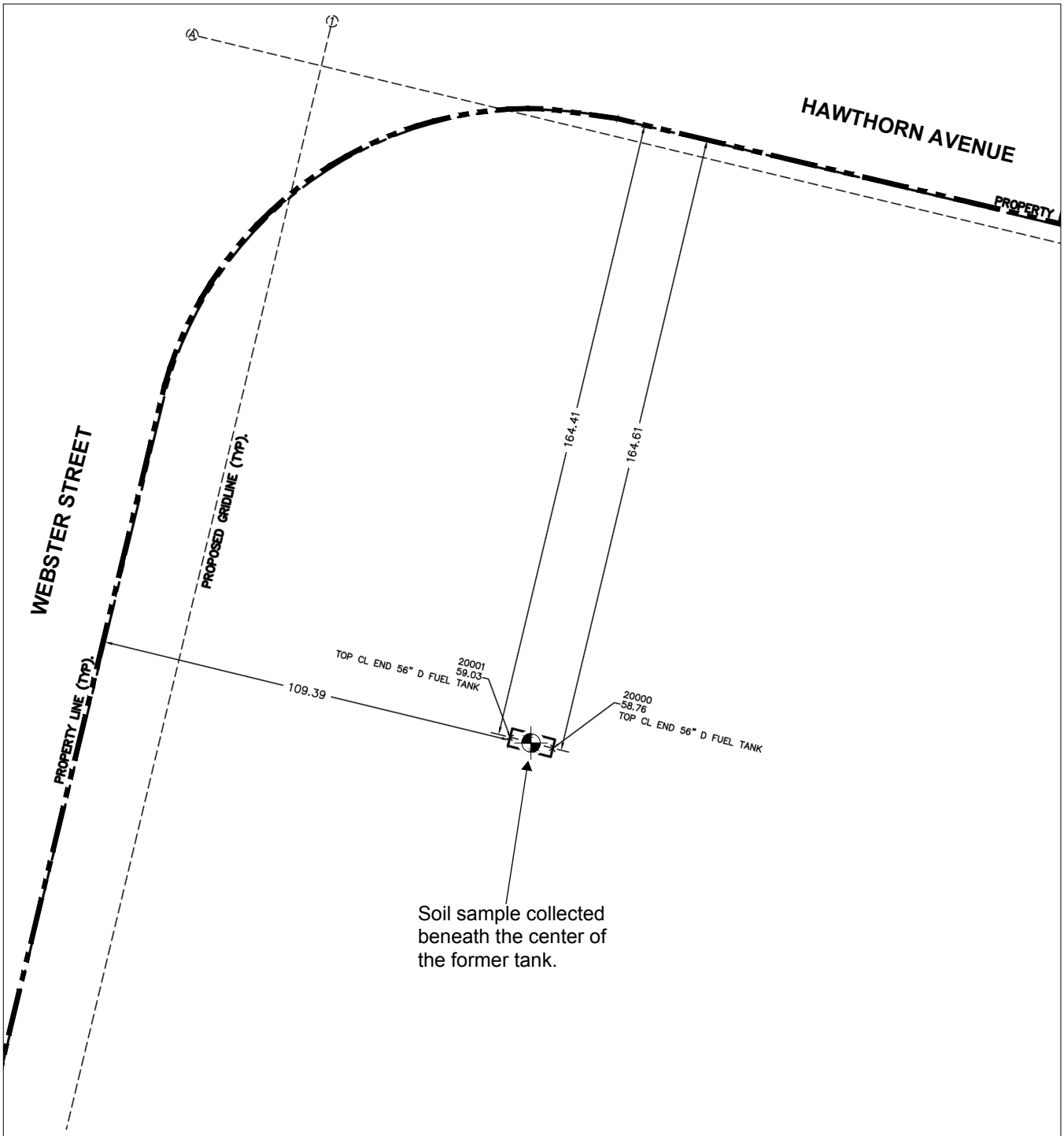
**3093 BROADWAY**
Oakland, California

**SITE LOCATION MAP**

LANGAN TREADWELL ROLLO

| Date 3/4/2015 | Project 7316317001 | Figure 1 |
|---|---|---|

\\langan.com\data\SF\data0\7316370001\ArcGIS\ArcMap_Documents\SiteLocation.mxd User: cstatham




**EXPLANATION**

Approximate location of soil sample by Langan Treadwell Rollo

Site boundary

0 40 Feet

Approximate scale

Reference: Base map from a drawing tiltled "Topographic Survey of the Lands of 3093 Broadway," by BKF, dated 06/27/16

**3093 BROADWAY**
Oakland, California

**SITE PLAN**

LANGAN TREADWELL ROLLO

Date 07/19/16 | Project No. 731637001 | Figure 2

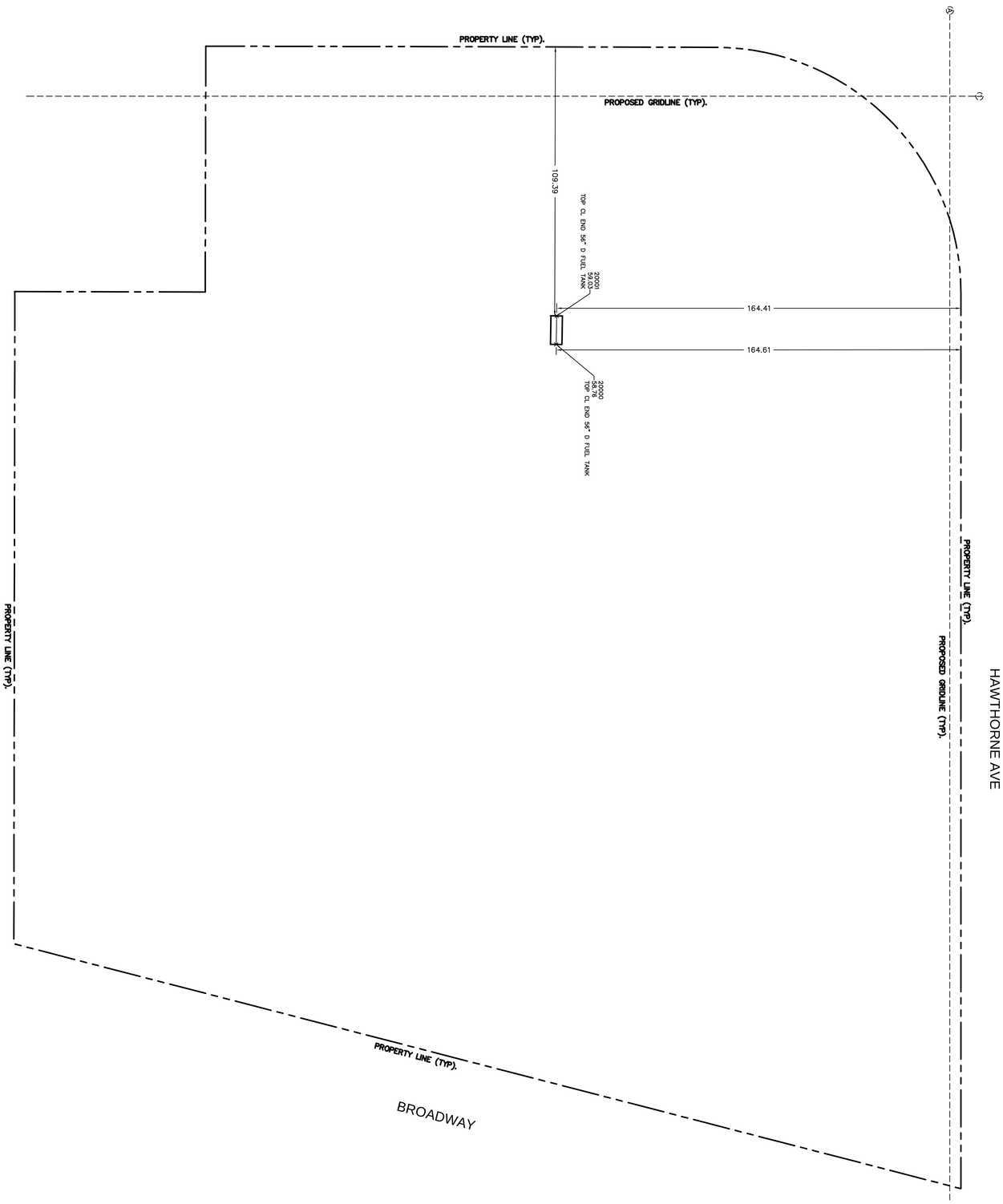
\\langan.com\data\SFO\data0\731637001\Cadd Data - 731637001\2D-DesignFiles\Environmental\731637001-N-SP0160.dwg 7/19/16

# APPENDIX A
# SURVEYOR'S REPORT

DRAWING NAME: J:\Surv\14\20091\Dgn\2016-06-14_Underground Tank.dwg
PLOT TIME: 06-27-16
PLOTTED BY: eet

1" = 20'

WEBSTER STREET




THIS SURVEY WAS PERFORMED BY ME, OR UNDER MY DIRECTION, AND COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS.

DUSTIN SOLT, P.L.S 9261

LICENSED LAND SURVEYOR
DUSTIN SOLT
No. 9261
STATE OF CALIFORNIA

06/27/2016
DATE

| Date: 6/27/2016 | No. | Revisions |
|---|---|---|
| Scale: N/A | | |
| Design: | | |
| Drawn: DES | | |
| Approved: | | |
| Job No: 20140091 | | |

Drawing Number: TOPO
1 OF 1

# TOPOGRAPHIC SURVEY
# OF THE LANDS OF
## 3093 BROADWAY

CITY OF OAKLAND — COUNTY OF ALAMEDA — STATE OF CALIFORNIA

BkF ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

# APPENDIX B
# PERMITS, NOTIFICATIONS, AND INSPECTION RECORDS

**Oakland Fire Department, Fire Prevention Bureau**
**250 Frank H. Ogawa Plaza, Ste. 3341**
**Oakland, CA 94612-2032**

**(510) 238-3851**
**TTY (510) 238-6884**

# Operational Fire Permit

**Post Permit in Conspicuous Location**

**Occupancy Mailing Address**
Pacific States
11555 Dublin Boulevard
Dublin, CA 94568

Effective 7/7/2016 Expires 7/9/2016
Inspection Ref # 2016-60523
Permit Ref # FP16SKIS-00021

**Facility Address**
3093 Broadway OAKLAND CA 94605

This operational **Underground Tank Removal Permit** permit is here by granted and is effective 7/7/2016 and expires on 7/9/2016.
The holder of this permit agrees to maintain the building/business compliant with City, State, and Federal standards associated with the business operations. Failure to do so will result in the termination of this fire permit. At the time this permit was issued, the facility was in compliance with the City of Oakland Fire Code.
Below is a list of specific permit conditions:
The work plan and health and safety plan will be followed as provided

Sheryl Skillern Haz-Mat Inspector

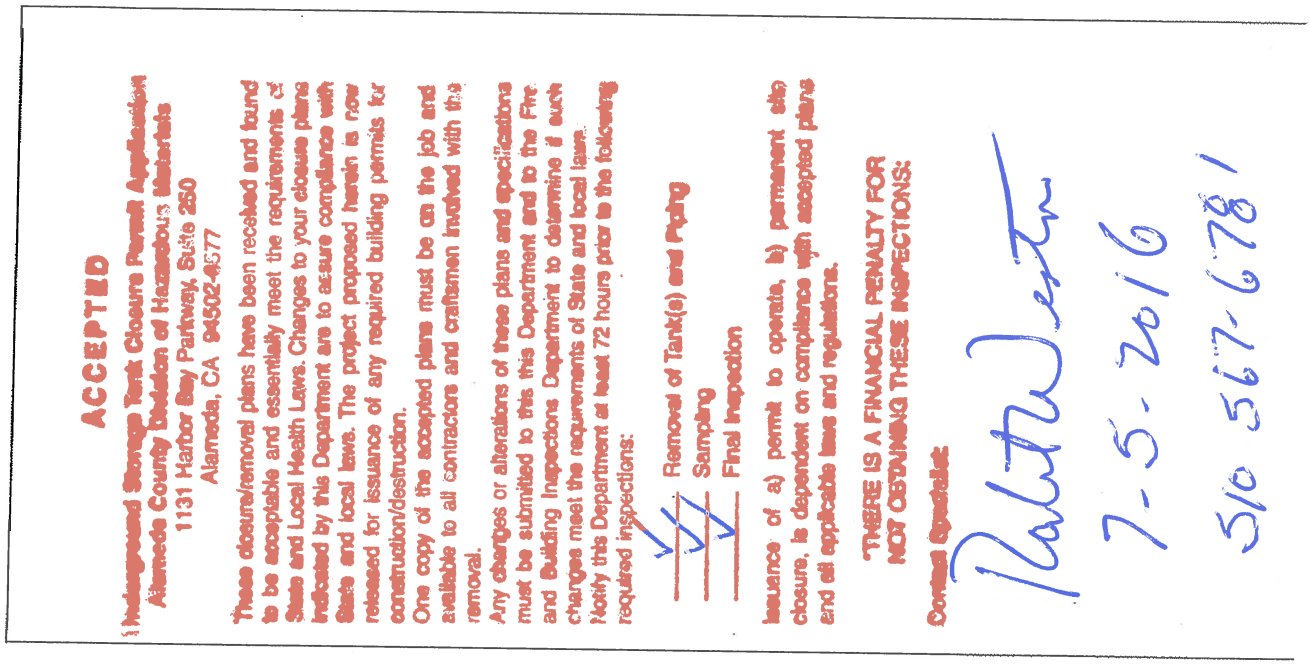
Miguel Trujillo
Fire Marshal

Oakland Fire Prevention Bureau Office of the Fire Marshal

CITY OF OAKLAND

Date Issued
7/7/2016

ALAMEDA COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
PHONE (510) 567-6700




Please see the Minimum Verification
Analyses for unknown tank contents
The highligthed analytes are required.

## UNDERGROUND STORAGE TANK CLOSURE PLAN

*** * * Complete closure plan according to instructions * * ***

1. Name of Business 3093 Broadway Holdings, LLC.

   Business Owner or Contact Person **(PRINT)** Stephen Siri

2. Site Address 3093 Broadway

   City, State Oakland, California Zip 94611 Phone 925-766-5522

3. Mailing Address 44 Montgomery Street, Suite 4050

   City, State San Francisco, California Zip 94104 Phone 925-766-5522

4. Property Owner 3093 Broadway Holdings, LLC.

   Business Name (if applicable) Same

   Address 44 Montgomery Street, Suite 4050

   City, State San Francisco, California Zip 94104 Phone 925-766-5522

5. Generator name under which tank will be manifested

   3093 Broadway Holdings, LLC.

   EPA I.D. No. under which tank(s) will be manifested CAC002856681 _ _ _ _ _ _

6. Contractor Pacific States Environmental Contractors, Inc.

   Address 11555 Dublin Boulevard

   City, State Dublin, California Zip 945468 Phone 925-803-4333

   License Type A, HAZ ID# 1014770

7. Consultant (if applicable) _____

   Address _____

   City, State _____ Zip _____ Phone _____

8. Main Contact Person for Investigation (if applicable)

   Name Kris Gretsinger Title Project Manager

   Company Pacific States Environmental Contractors, Inc.

   Phone 510-381-8199

9. Number of underground tanks being closed with this plan 1

   Length of piping being removed under this plan N/A

   Total number underground tanks at this facility (**confirmed with owner or operator) 4

10. State Registered Hazardous Waste Transporters/Facilities (See Instructions).

    a) Product/Residual Sludge/Rinsate Transporter

       Name _____ EPA I.D. No. _____

       Hauler License No. _____ License Exp. Date _____

       Address _____

       City, State _____ Zip _____

    b) Product/Residual Sludge/Rinsate Disposal Site

       Name _____ EPA I.D. No. _____

       Address _____

       City, State _____ Zip _____

c) Tank and Piping Transporter

Name Environmental Logistics EPA I.D. No. CAR000217513

Hauler License No. 137235 License Exp. Date 12/31/16

d) Tank and Piping Disposal Site

Name Ecology Control Industries EPA I.D. No. CAD009466392

Address 255 Parr Blvd

City, State Richmond, CA Zip 94801

11. Sample Collector

Name Blake Bergesen

Company Pacific States Environmental Contractors, Inc.

Address 11555 Dublin Boulevard

City, State Dublin, California Zip 94568 Phone 925-803-4333

12. Laboratory

Name Dimple Sharma

Company Test America

Address 1220 Quarry Lane

City, State Pleasanton, California Zip 94566

State Certification No. 2496

13. Have tank(s) or piping leaked in the past? Yes [ ] No [ ] Unknown [ X ]

If yes, describe:

14. Describe method(s) to be used for rendering tank(s) inert:

TBD

**Before tank(s) are pumped out and inerted, all associated piping must be flushed back into the tank(s). All accessible piping must then be removed. Inaccessible piping must be permanently plugged using grout.**

The Bay Area Air Quality Management District, (415) 771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verity tank inertness. **It is the contractor's responsibility to have a functional combustible gas indicator on-site to verity that the tank(s) is inerted.**

15. Tank History and Sampling Information ***(See Instructions)***

| Tank | | Material to be sampled (tank contents, soil, groundwater) | Location and Depth of Sample(s) |
|---|---|---|---|
| Capacity (gallons) | Use History include date last used (estimated) | | |
| Approximately 1,100 gallons | Unknown | Tank Contents (Water)<br><br>Soil | In Tank, Residual of contents<br><br>1 - Beneath Tank 1' depth |

**One soil sample must be collected for every 20 linear feet of underground piping that is removed. A groundwater sample must be collected if any groundwater is present in the excavation.**

| Excavated/Stockpiled Soil | |
|---|---|
| Stockpiled Soil Volume (estimated)<br><br>N/A | Sampling Plan<br><br>N/A |

**Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.**

Will the excavated soil be returned to the excavation immediately after tank removal?

[ ] yes [ X ] no [ ] unknown

If yes, explain reasoning _____

_____

If unknown at this point in time, please be aware that **excavated soil may not be returned to the excavation without <u>prior</u> approval from this office. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling activities.**

# MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND STORAGE TANK SITES


## Alameda County Department of Environmental Health

### Certified Unified Program Agency (CUPA) and Local Oversight Program (LOP)

1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700 http://www.acgov.org/aceh/


This document describes required laboratory analyses for soil and groundwater samples collected for underground storage tank (UST) sites. These requirements replace those previously described in the Unidocs guidance document entitled, "Recommended Minimum Verification Analyses for Underground Storage Tank Leaks" (UN-078). Analytes may be added or deleted during site characterization and remediation with approval from ACDEH.

| Material Stored | Analytes | Analytical Method | |
|---|---|---|---|
| | | Soil | Groundwater |
| **Gasoline Leaded or Unleaded** | TPH as gasoline C5-C12 | EPA 8260B/C | EPA 8260B/C |
| | BTEX, MTBE, TBA, naphthalene, EDB, EDC , and ethanol[2] | EPA 8260B/C | EPA 8260B/C |
| | Lead[3] | EPA 6010 | No analysis[4] |
| **Unknown Fuel** | Same analytes as for gasoline | As above | As above |
| | TPH as diesel C12-C22 | EPA 8015 | EPA 8015 |
| **Diesel, Jet Fuel, Kerosene, or Fuel Oil** | TPH specific to fuel (e.g. TPH as kerosene) | EPA 8015 | EPA 8015 |
| | BTEX, MTBE, and naphthalene | EPA 8260B/C | EPA 8260B/C |
| **Chlorinated Solvents** | Volatile Organic Compounds (full scan including BTEX, naphthalene, and chlorinated hydrocarbons) | EPA 8260B/C full scan | EPA 8260B/C full scan |
| | TPH as Stoddard Solvent C7-C12 | EPA 8015 | EPA 8015 |
| **Waste Oil, Used Oil, Unknown Oil, or Bunker Fuel** | TPH as gasoline C5-C12 | EPA 8260B/C | EPA 8260B/C |
| | TPH as diesel C12-C22 | EPA 8015 | EPA 8015 |
| | TPH as motor oil C23-C32[5] | EPA 8015 | No analysis[4] |
| | Volatile Organic Compounds (full scan including BTEX, MTBE, TBA, naphthalene, and chlorinated hydrocarbons) | EPA 8260B/C full scan | EPA 8260B/C full scan |
| | Metals: Cd, Cr, Pb, Ni, Zn | EPA 6010 | No analysis[4] |
| | PCBs | EPA 8082A | EPA 8082A |
| | Semi Volatile Organic Compounds (including PAHs[6], pentachlorophenol, and creosote) | EPA 8270 | EPA 8270 |

Notes:

1. Silica gel cleanup is not to be performed for any of the above analyses.
2. Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Methyl tertiary Butyl Ether (MTBE), Tert Butyl Alcohol (TBA), lead scavengers Ethylene Dibromide (EDB) and Ethylene Dichloride (EDC), and ethanol. Additional fuel oxygenates Tert amyl ether (TAME), di-isopropyl ether (DIPE), and Ethyl t-butyl ether (ETBE) may be added as optional analytes.
3. Organic lead may be added as an optional analyte at fuel leak sites where lead is an analyte.
4. No groundwater sample for metals or TPH as motor oil is required unless requested by ACEH.
5. For USTs that potentially contained oils that are not petroleum-based, analysis for hexane extractable materials using EPA Method 9071B for soil and EPA Method 1664 for water is required.
6. Polycyclic aromatic hydrocarbon (PAH) analysis must include naphthalene, acenaphthene, acenaphthylene, anthracene, chrysene, fluorine, fluoranthene, phenanthrene, pyrene, benzo(b)fluoranthene, benzo(a)pyrene, benzo(k)fluoranthene, benzo(a)anthracene, indeno(1,2,3-c,d)pyrene, dibenz(a,b)anthracene, and benzo(g,h,i)perylene.

16. Chemical methods and associated detection limits to be used for analyzing sample(s):

**The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits shall be followed.**

See Table 2, Recommended Minimum Verification Analyses for Underground Tank Leaks.

| Contaminant Sought | EPA or Other Sample Preparation Method Number | EPA or Other Analysis Method Number | Method Detection Limit |
|---|---|---|---|
| Gasoline, Jet, Diesel, Fuel Oil | | EPA 8260B, 8015B | |
| Heavy Fuel Oils | | EPA 8260B | |
| Waste Motor Oils | | EPA 8270 SIM,EPA 6010 | |

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Worker's Compensation Certificate copy

    Name of Insurer XL Insurance America, Inc.

19. Submit Plot Plan ***(See Instructions)***

20. Enclose Deposit (See Instructions)

21. **Report all leaks or contamination to this office within 5 days of discovery.** The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (URL) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The closure report must contain all information listed in item 22 of the instructions.**

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one-B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner).

I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan has been approved.

I understand that any changes in design, materials, or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

**Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.**

CONTRACTOR INFORMATION

Name of Business Pacific States Environmental Contractors, Inc.

Name of Individual Kris Gretsinger

Signature _____ Date 6/16/16

[ X ] PROPERTY OWNER OR [ ] MOST RECENT TANK OPERATOR (Check one)

Name of Business 3093 Broadway Holdings, LLC.

Name of Individual STEPHEN SIRI

Signature _____ Date 6/16/16

UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK

# OPERATING PERMIT APPLICATION – FACILITY INFORMATION

(One form per facility)

TYPE OF ACTION (Check one item only) 400.
☐ 1. NEW PERMIT ☐ 5. CHANGE OF INFORMATION ☒ 7. PERMANENT FACILITY CLOSURE
☐ 3. RENEWAL PERMIT ☐ 6. TEMPORARY FACILITY CLOSURE ☐ 9. TRANSFER PERMIT

## I. FACILITY INFORMATION

TOTAL NUMBER OF USTs AT FACILITY 404.: 4
FACILITY ID # (Agency Use Only) 1.:

BUSINESS NAME (Same as Facility Name or DBA – Doing Business As) 3.: 3093 Broadway Holdings, LLC.

BUSINESS SITE ADDRESS 103.: 3093 Broadway
CITY 104.: Oakland

FACILITY TYPE 403.: ☐ 1. MOTOR VEHICLE FUELING ☐ 2. FUEL DISTRIBUTION ☐ 3. FARM ☐ 4. PROCESSOR ☒ 6. OTHER

Is the facility located on Indian Reservation or Trust lands? 405. ☐ 1. Yes ☒ 2. No

## II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME 407.: 3093 Broadway Holdings, LLC
PHONE 408.: (925) 766-5522

MAILING ADDRESS 409.: 44 Montgomery Street, Suite 4050

CITY 410.: San Francisco
STATE 411.: CA
ZIP CODE 412.: 94104

## III. TANK OPERATOR INFORMATION

TANK OPERATOR NAME 428-1.: Same as Facility Owner
PHONE 428-2.: ( )

MAILING ADDRESS 428-3.:

CITY 428-4.:
STATE 428-5.:
ZIP CODE 428-6.:

## IV. TANK OWNER INFORMATION

TANK OWNER NAME 414.: Same as Facility Owner
PHONE 415.: ( )

MAILING ADDRESS 416.:

CITY 417.:
STATE 418.:
ZIP CODE 419.:

OWNER TYPE: 420.
☐ 4. LOCAL AGENCY/DISTRICT ☐ 5. COUNTY AGENCY ☐ 6. STATE AGENCY
☐ 7. FEDERAL AGENCY ☒ 8. NON-GOVERNMENT

## V. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- 421.: Call the State Board of Equalization, Fuel Tax Division, if there are questions.

## VI. PERMIT HOLDER INFORMATION

Issue permit and send legal notifications and mailings to: 423.
☒ 1. FACILITY OWNER ☐ 4. TANK OPERATOR
☐ 3. TANK OWNER ☐ 5. FACILITY OPERATOR

SUPERVISOR OF DIVISION, SECTION, OR OFFICE (Required for Public Agencies Only) 406.:

## VII. APPLICANT SIGNATURE

**CERTIFICATION: I certify that the information provided herein is true, accurate, and in full compliance with legal requirements.**

APPLICANT SIGNATURE:
DATE 424.: 6/16/16
PHONE 425.: (925) 766-5522

APPLICANT NAME (print) 426.: STEPHEN SIRI
APPLICANT TITLE 427: PRINCIPAL

# UPCF UST Operating Permit Application – Facility Information Page Instructions
## (Formerly SWRCB UST Permit Application Form A and UPCF Form hwfwrc-a)

Complete this form for all new permits, permit changes, or facility information changes. This form must be submitted within 30 days of permit or facility information changes, unless your local agency requires approval prior to making the changes. For changes, submit only that form that contains the change.

Submit one UST Operating Permit Application – Facility Information form per facility, regardless of the number of USTs located at the facility. If not already on file with the local agency, the tank owner must submit with this form, a current UST Operating Permit Application – Tank Information form for each UST; a UST Monitoring Plan and a UST Response Plan pursuant to 23 CCR §2632, 2634 and 2641; and, for USTs containing petroleum, a Certification of Financial Responsibility pursuant to 23 CCR §2807.

The following documents, at a minimum, are also required, if applicable (check with your local agency to see if they require submittal or if there are other forms/information needed):

- ❑ Written agreement between UST Owner and UST Operator per Health and Safety Code §25284(a)(3);
- ❑ Letter from the Chief Financial Officer (if using State Cleanup Fund, financial test of self-insurance, guarantee, local government financial test, or Local Government Fund as a financial responsibility mechanism).

Please number all pages of your submittal. (Note: Numbering of these instructions matches the data element numbers on the form.)

400. TYPE OF ACTION – Check the reason this form is being submitted. CHECK ONE ITEM ONLY.
404. TOTAL NUMBER OF USTs AT SITE – Indicate the number of tanks that will remain on the site after the requested action.
1. FACILITY ID NUMBER – This space is for agency use only.
3. BUSINESS NAME – Enter the complete Business Name. (Same as FACILITY NAME or DBA (Doing Business As)).
103. BUSINESS SITE ADDRESS – Enter the street address of the facility, including building number, if applicable. This address must be the physical location of the facility. Post office box numbers are not acceptable.
104. CITY – Enter the city or unincorporated area in which the facility is located.
403. FACILITY TYPE – Indicate the type of facility.
405. INDIAN RESERVATION OR TRUST LANDS – Check whether the facility is located on an Indian reservation or other trust lands.
407. PROPERTY OWNER NAME –
408. PROPERTY OWNER PHONE –
409. PROPERTY OWNER MAILING ADDRESS –
410. PROPERTY OWNER CITY –
411. PROPERTY OWNER STATE –
412. PROPERTY OWNER ZIP CODE –

Complete items 407 - 412 for the property owner. Include the area code and any extension number.

428-1. TANK OPERATOR NAME –
428-2. TANK OPERATOR PHONE –
428-3. TANK OPERATOR MAILING ADDRESS –
428-4. TANK OPERATOR CITY –
428-5. TANK OPERATOR STATE –
428-6. TANK OPERATOR ZIP CODE –

Complete items 428-1 to 428-6 for the UST operator. Include the area code and any extension number.

414. TANK OWNER NAME –
415. TANK OWNER PHONE –
416. TANK OWNER MAILING ADDRESS –
417. TANK OWNER CITY –
418. TANK OWNER STATE –
419. TANK OWNER ZIP CODE –

Complete items 414 - 419 for the UST owner. Include the area code and any extension number.

420. TANK OWNER TYPE – Check the type of tank ownership.
421. BOE NUMBER – Enter your State Board of Equalization (BOE) UST storage fee account number. This fee applies to regulated USTs storing petroleum products and is required before your permit application will be processed. If you do not have an account number with the BOE, or if you have any questions regarding the fee or exemptions, contact the BOE at (916) 322-9669 or by mail at: Board of Equalization, Fuel Taxes Division, PO Box 942879, Sacramento, CA 94279-0030.
423. PERMIT HOLDER INFORMATION – Indicate the party to whom the UST operating permit is to be issued and legal notifications and mailings should be sent.
406. SUPERVISOR OF DIVISION SECTION OR OFFICE SUPERVISOR – If the facility owner is a public agency, enter the name of the supervisor of the division section or office that operates the UST. This person must have access to the UST records.

APPLICANT SIGNATURE – The application form must be signed, in the space provided, by:

- The UST owner or operator, facility owner or operator, or a duly authorized representative of the owner; or
- If the UST(s) is/are owned by a corporation, partnership, or public agency:
  1.) A principal executive officer at the level of vice-president or by an authorized representative responsible for the overall operation of the facility where the UST(s) is/are located; or
  2.) A general partner or proprietor; or
  3.) A principal executive officer, ranking elected official, or authorized representative of a public agency.

424. DATE – Enter the date the form was signed.
425. PHONE – Enter the phone number of the applicant (i.e., person signing the form). Include the area code and any extension number.
426. APPLICANT NAME – Print or type the full name of the person signing the form.
427. APPLICANT TITLE – Enter the title of the person signing the form.

# UNIFIED PROGRAM CONSOLIDATED FORM
## UNDERGROUND STORAGE TANK
## OPERATING PERMIT APPLICATION – TANK INFORMATION (One form per UST)

TYPE OF ACTION *(Check one item only. For a UST closure or removal, complete only this section and Sections I, II, III, IV, and IX below)* 430.
☐ 1. NEW PERMIT ☐ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION
☐ 6. TEMPORARY UST CLOSURE ☐ 7. UST PERMANENT CLOSURE ON SITE ☒ 8. UST REMOVAL

DATE UST PERMANENTLY CLOSED: 430a. | DATE EXISTING UST DISCOVERED: 6/9/2016 430b.

## I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* 1.

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
3093 Broadway Holdings, LLC

BUSINESS SITE ADDRESS 103.
3093 Broadway

CITY 104.
Oakland

## II. TANK DESCRIPTION

TANK ID # 432.
4

TANK MANUFACTURER 433.
Unknown

TANK CONFIGURATION: THIS TANK IS 434.
☒ 1. A STAND-ALONE TANK
☐ 2. ONE IN A COMPARTMENTED UNIT
Complete one page for each compartment in the unit.

DATE UST SYSTEM INSTALLED 435.
Unknown

TANK CAPACITY IN GALLONS 436.
1,100

NUMBER OF COMPARTMENTS IN THE UNIT 437.
0

## III. TANK USE AND CONTENTS

TANK USE 439.
☐ 1a. MOTOR VEHICLE FUELING ☐ 1b. MARINA FUELING ☐ 1c. AVIATION FUELING
☐ 3. CHEMICAL PRODUCT STORAGE ☐ 4. HAZARDOUS WASTE (Includes Used Oil) ☐ 5. EMERGENCY GENERATOR FUEL [HSC §25281.5(c)]
☐ 6. OTHER GENERATOR FUEL ☒ 95. UNKNOWN ☐ 99. OTHER (Specify): 439a.

CONTENTS 440.
PETROLEUM: ☐ 1a. REGULAR UNLEADED ☐ 1c. MIDGRADE UNLEADED ☐ 1b. PREMIUM UNLEADED
☐ 3. DIESEL ☐ 5. JET FUEL ☐ 6. AVIATION GAS
☐ 8. PETROLEUM BLEND FUEL ☐ 9. OTHER PETROLEUM (Specify): 440a.
NON-PETROLEUM: ☐ 7. USED OIL ☐ 10. ETHANOL
☐ 11. OTHER NON-PETROLEUM (Specify): 440b.

## IV. TANK CONSTRUCTION

TYPE OF TANK ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 95. UNKNOWN 443.

PRIMARY CONTAINMENT 444.
☒ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. INTERNAL BLADDER
☐ 7. STEEL + INTERNAL LINING ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 444a.

SECONDARY CONTAINMENT 445.
☐ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. EXTERIOR MEMBRANE LINER ☐ 7. JACKETED
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 445a.

OVERFILL PREVENTION 452.
☐ 1. AUDIBLE & VISUAL ALARMS ☐ 2. BALL FLOAT ☐ 3. FILL TUBE SHUT-OFF VALVE
☐ 4. TANK MEETS REQUIREMENTS FOR EXEMPTION FROM OVERFILL PREVENTION EQUIPMENT

## V. PRODUCT / WASTE PIPING CONSTRUCTION

PIPING CONSTRUCTION ☐ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☒ 99. OTHER 460.

SYSTEM TYPE ☐ 1. PRESSURE ☐ 2. GRAVITY ☐ 3. CONVENTIONAL SUCTION ☐ 4. SAFE SUCTION [23 CCR §2636(a)(3)] 458.

PRIMARY CONTAINMENT 464.
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464a.

SECONDARY CONTAINMENT 464b.
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464c.

PIPING/TURBINE CONTAINMENT SUMP TYPE ☐ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☒ 90. NONE 464d.

## VI. VENT, VAPOR RECOVERY (VR) AND RISER / FILL PIPE PIPING CONSTRUCTION

| | | | | | | |
|---|---|---|---|---|---|---|
| VENT PRIMARY CONTAINMENT | ☐ 1. STEEL | ☐ 4. FIBERGLASS | ☐ 10. RIGID PLASTIC | ☒ 90. NONE | ☐ 99. OTHER (Specify): | 464e. 464e1. |
| VENT SECONDARY CONTAINMENT | ☐ 1. STEEL | ☐ 4. FIBERGLASS | ☐ 10. RIGID PLASTIC | ☒ 90. NONE | ☐ 99. OTHER (Specify): | 464f. 464f1. |
| VR PRIMARY CONTAINMENT | ☐ 1. STEEL | ☐ 4. FIBERGLASS | ☐ 10. RIGID PLASTIC | ☒ 90. NONE | ☐ 99. OTHER (Specify): | 464g. 464g1. |
| VR SECONDARY CONTAINMENT | ☐ 1. STEEL | ☐ 4. FIBERGLASS | ☐ 10. RIGID PLASTIC | ☒ 90. NONE | ☐ 99. OTHER (Specify): | 464h. 464h1. |
| VENT PIPING TRANSITION SUMP TYPE | ☐ 1. SINGLE WALL | ☐ 2. DOUBLE WALL | ☒ 90. NONE | | | 464i. |
| RISER PRIMARY CONTAINMENT | ☐ 1. STEEL | ☐ 4. FIBERGLASS | ☐ 10. RIGID PLASTIC | ☒ 90. NONE | ☐ 99. OTHER (Specify): | 464j. 464j1. |
| RISER SECONDARY CONTAINMENT | ☐ 1. STEEL | ☐ 4. FIBERGLASS | ☐ 10. RIGID PLASTIC | ☒ 90. NONE | ☐ 99. OTHER (Specify): | 464k. 464k1. |
| FILL COMPONENTS INSTALLED | ☐ 1. SPILL BUCKET | ☐ 3. STRIKER PLATE/BOTTOM PROTECTOR | ☐ 4. CONTAINMENT SUMP | | | 451a-c. |

## VII. UNDER DISPENSER CONTAINMENT (UDC)

CONSTRUCTION TYPE ☐ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 3. NO DISPENSERS ☒ 90. NONE 469a.

CONSTRUCTION MATERIAL ☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 99. OTHER (Specify) 469b. 469c.

## VIII. CORROSION PROTECTION

STEEL COMPONENT PROTECTION ☐ 2. SACRIFICIAL ANODE(S) ☐ 4. IMPRESSED CURRENT ☐ 6. ISOLATION 448.

## IX. APPLICANT SIGNATURE

**CERTIFICATION: I certify that this UST system is compatible with the hazardous substance stored and that the information provided herein is true, accurate, and in full compliance with legal requirements.**

APPLICANT SIGNATURE Stephen Siri DATE 6/16/16 470.

APPLICANT NAME (print) STEPHEN SIRI 471. APPLICANT TITLE PRINCIPAL 472.

# UPCF UST Operating Permit Application – Tank Information Instructions
## (Formerly SWRCB Permit Application Form B and UPCF Form hwfwrc-b)

Complete a separate Tank Information form for each UST for all new permits, permit changes, and any UST system information changes. This form must be submitted within 30 days of permit or UST system information changes, unless your local agency requires approval prior to making changes. For tanks that are part of a compartmentalized unit, each compartment is considered a separate tank and requires completion of a separate Tank Information form. For a UST closure or removal, complete only TYPE OF ACTION and Sections I, II, III, IV, and IX. (Note: Numbering of these instructions matches the UPCF data element numbers on the form.)

430. TYPE OF ACTION – Check the appropriate box to indicate why this form is being submitted.
430a. DATE UST PERMANENTLY CLOSED – For reporting closure only: enter the date the UST was removed or closed on site.
430b. DATE EXISTING UST DISCOVERED – Enter the date this UST was discovered. Leave blank if installation date is known.
1. FACILITY ID NUMBER – This space is for agency use only.
3. BUSINESS NAME – Enter the complete facility name.
103. BUSINESS SITE ADDRESS – Enter the street address of the facility, including building number, if applicable. This address must be the physical location of the facility. Post office box numbers are not acceptable.
104. BUSINESS SITE CITY – Enter the city or unincorporated area in which the facility is located.
432. TANK ID # – Enter a unique number used to identify the tank. This number may be assigned by the UST owner/operator or the Unified Program Agency.
433. TANK MANUFACTURER – Enter the name of the company that manufactured the tank.
434. NUMBER OF TANK UNITS. Check the appropriate box to indicate if the tank is a stand-alone tank or one of two or more compartments in a tank system. A separate UST Operating Permit Application – Tank Information form must be submitted for each compartment.
435. DATE UST SYSTEM INSTALLED – Enter the date the local agency signed-off on installation of the UST system. This is the date of initial tank system installation, and does not include upgrades or retrofits which may have been performed later. If this is for a new installation, leave blank.
436. TANK CAPACITY IN GALLONS: Enter the tank capacity. For compartmentalized tanks, enter data for the compartment covered by this tank form only.
437. NUMBER OF TANK COMPARTMENTS: If the tank is a compartment, enter the total number of compartments in the UST.
439. TANK USE – Check the type of tank usage.
439a. If you checked "OTHER" specify the type of tank usage in the space provided.
440. TANK CONTENTS – Check the specific petroleum or non-petroleum substance stored.
440a. If you checked "OTHER PETROLEUM" specify the common name of the substance in the space provided [i.e., the name used in the facility's Hazardous Materials Business Plan (HMBP) inventory].
440b. If you checked "OTHER" under Non-petroleum, specify the common name of substance in the space provided (i.e., the name used in the HMBP inventory).
443. TYPE OF TANK – Check the box that identifies the type of tank.
444. TANK PRIMARY CONTAINMENT – Check the construction material of the primary containment (i.e., inner tank wall nearest the hazardous substance stored). If the tank material is not listed, check "Other" and specify the material in the space provided.
444a. If you checked "OTHER" specify the type of primary containment in the space provided.
445. TANK SECONDARY CONTAINMENT – Check the construction material of the secondary containment that provides containment external to, and separate from, the primary containment described above. If the tank is a single-wall tank, check "None." If the material is not listed, check "OTHER" and specify the material in the space provided (e.g., HDPE).
445a. If you checked "OTHER" specify the type of secondary containment in the space provided.
452 OVERFILL PREVENTION – Check the box(es) to describe the type(s) of overfill protection equipment installed.
458. PIPING SYSTEM TYPE – Check the type of product/waste piping installed in this tank system. "SAFE SUCTION" refers to piping systems meeting all requirements of 23 CCR §2636(a)(3) (also known as "European Suction" systems) (i.e., sloped suction piping systems with no valves or pumps below grade and only one check valve, located below and as close as practical to the suction pump). Title 23, California Code of Regulations is available online at **www.calregs.com**.
464. PIPING PRIMARY CONTAINMENT – Check the material(s) used to construct the primary (i.e., inner) underground product/waste piping.
464a. If you checked "OTHER" specify the type of primary containment in the space provided.
464b. PIPING SECONDARY CONTAINMENT – Check the material(s) used to construct the secondary containment system(s) (i.e., secondary piping, trench) provided for the product/waste piping. For single-wall piping systems, check "NONE."
464c. If you checked "OTHER" specify the type of secondary containment in the space provided.
464d. PIPING/TURBINE CONTAINMENT SUMP TYPE – Indicate the type of piping/turbine containment sump(s). Check "NONE" if not present.
464e-e1. VENT PRIMARY CONTAINMENT – Check the material(s) used to construct the primary (i.e., inner) vent piping. (Note: Address venting of the tank primary containment only.) Specify OTHER type of containment in the space provided.
464f-f1. VENT SECONDARY CONTAINMENT – Check the material(s) used to construct the secondary containment system(s) (e.g., secondary piping,) provided for the vent piping. For single-wall piping systems, check "None." (Note: Address venting of the tank primary containment only.) Specify OTHER type of containment in the space provided.
464g-g1. VR PRIMARY CONTAINMENT – Check the material(s) used to construct the primary (i.e., inner) vapor recovery piping. For tanks without vapor recovery piping (e.g., Diesel tanks), check "None." Specify OTHER type of containment in the space provided.
464h-h1. VR SECONDARY CONTAINMENT – Check the material(s) used to construct the secondary containment system(s) (e.g., secondary piping) provided for the vapor recovery piping. For single-wall piping systems, check "None." Specify OTHER type of containment in the space provided.
464i. VENT PIPING TRANSITION SUMP TYPE – Indicate type of transition sump(s). Check "NONE" if not present.
464j-j1. RISER PRIMARY CONTAINMENT – Check the material(s) used to construct the primary (i.e., inner) piping for all risers (not drop tubes) other than annular space risers (i.e., risers for filling or gauging of the primary tank). Specify OTHER type of containment in the space provided.
464k-k1. RISER SECONDARY CONTAINMENT – Check the material(s) used to construct secondary containment system(s) (i.e., secondary piping, sumps) provided for the riser piping. For risers without secondary containment, check "None." Specify OTHER type of containment in the space provided.
451a-c. FILL COMPONENTS INSTALLED – Check the appropriate boxes to show that spill containment, tank bottom protection, and fill containment sumps (if applicable) are installed.
469a. UDC CONSTRUCTION TYPE – Check the box to describe the type of dispenser containment system(s) (i.e., dispenser sumps or pans). If the system has no dispensers (e.g., standby generator tank system), check "No Dispensers." If the system has a dispenser, but no UDC, check "NONE."
469b. UDC CONSTRUCTION MATERIAL – Check the box to describe the materials used to construct the UDC.
469c. If you checked "OTHER" specify the type of UDC construction material in the space provided.
448. STEEL COMPONENT PROTECTION – All systems contain some steel components. Check the appropriate box(es) to describe all corrosion protection methods used. "Isolation" means electrical isolation from soil, backfill, and groundwater. Examples include fiberglass cladding, non-metallic secondary containment systems which isolate steel components from the sub-surface environment, and insulating bushings.

APPLICANT SIGNATURE – The same person who signs the UST Operating Permit Application – Facility Form shall sign in the space provided. This signature certifies that the signer believes that all information submitted is true and accurate, and that the UST system is compatible with the substance stored.

470. DATE – Enter the date the form was signed.
471. APPLICANT NAME – Print or type the name of the person signing the form.
472. APPLICANT TITLE – Enter the title of the person signing the form.

ALAMEDA COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
PHONE (510) 567-6700

## UNDERGROUND STORAGE TANK CLOSURE PLAN

*** * * Complete closure plan according to instructions * * ***

1. Name of Business 3093 Broadway Holdings, LLC.

   Business Owner or Contact Person **(PRINT)** Stephen Siri

2. Site Address 3093 Broadway

   City, State Oakland, California Zip 94611 Phone 925-766-5522

3. Mailing Address 44 Montgomery Street, Suite 4050

   City, State San Francisco, California Zip 94104 Phone 925-766-5522

4. Property Owner 3093 Broadway Holdings, LLC.

   Business Name (if applicable) Same

   Address 44 Montgomery Street, Suite 4050

   City, State San Francisco, California Zip 94104 Phone 925-766-5522

5. Generator name under which tank will be manifested

   3093 Broadway Holdings, LLC.

   EPA I.D. No. under which tank(s) will be manifested CAC002856681 _ _ _ _ _ _

6. Contractor Pacific States Environmental Contractors, Inc.

   Address 11555 Dublin Boulevard

   City, State Dublin, California Zip 945468 Phone 925-803-4333

   License Type A, HAZ ID# 1014770

7. Consultant (if applicable) _____

   Address _____

   City, State _____ Zip _____ Phone _____

8. Main Contact Person for Investigation (if applicable)

   Name _____ Title _____

   Company _____

   Phone _____

9. Number of underground tanks being closed with this plan 1

   Length of piping being removed under this plan N/A

   Total number underground tanks at this facility (**confirmed with owner or operator) 4

10. State Registered Hazardous Waste Transporters/Facilities (See Instructions).

    a) Product/Residual Sludge/Rinsate Transporter

       Name _____ EPA I.D. No. _____

       Hauler License No. _____ License Exp. Date _____

       Address _____

       City, State _____ Zip _____

    b) Product/Residual Sludge/Rinsate Disposal Site

       Name _____ EPA I.D. No. _____

       Address _____

       City, State _____ Zip _____

c) Tank and Piping Transporter

Name Environmental Logistics EPA I.D. No. CAR000217513

Hauler License No. 137235 License Exp. Date 12/31/16

d) Tank and Piping Disposal Site

Name Ecology Control Industries EPA I.D. No. _____

Address _____

City, State _____ Zip _____

11. Sample Collector

Name Blake Bergesen

Company Pacific States Environmental Contractors, Inc.

Address 11555 Dublin Boulevard

City, State Dublin, California Zip 94568 Phone 925-803-4333

12. Laboratory

Name Dimple Sharma

Company Test America

Address 1220 Quarry Lane

City, State Pleasanton, California Zip 94566

State Certification No. 2496

13. Have tank(s) or piping leaked in the past? Yes [ ] No [ ] Unknown [ X ]

If yes, describe: _____

14. Describe method(s) to be used for rendering tank(s) inert:

TBD

**Before tank(s) are pumped out and inerted, all associated piping must be flushed back into the tank(s). All accessible piping must then be removed. Inaccessible piping must be permanently plugged using grout.**

The Bay Area Air Quality Management District, (415) 771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verity tank inertness. **It is the contractor's responsibility to have a functional combustible gas indicator on-site to verity that the tank(s) is inerted.**

15. Tank History and Sampling Information ***(See Instructions)***

| Tank | | Material to be sampled (tank contents, soil, groundwater) | Location and Depth of Sample(s) |
|---|---|---|---|
| Capacity (gallons) | Use History include date last used (estimated) | | |
| Approximately 1,100 gallons | Unknown | Tank Contents (Water)<br><br>Soil | In Tank, Residual of contents<br><br>1 - Beneath Tank 1' depth |

**One soil sample must be collected for every 20 linear feet of underground piping that is removed. A groundwater sample must be collected if any groundwater is present in the excavation.**

| Excavated/Stockpiled Soil | |
|---|---|
| Stockpiled Soil Volume (estimated)<br><br>N/A | Sampling Plan<br><br>N/A |

**Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.**

Will the excavated soil be returned to the excavation immediately after tank removal?

[ ] yes [ X ] no [ ] unknown

If yes, explain reasoning _____

_____

If unknown at this point in time, please be aware that **excavated soil may not be returned to the excavation without <u>prior</u> approval from this office. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling activities.**

16. Chemical methods and associated detection limits to be used for analyzing sample(s):

**The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits shall be followed.**

See Table 2, Recommended Minimum Verification Analyses for Underground Tank Leaks.

| Contaminant Sought | EPA or Other Sample Preparation Method Number | EPA or Other Analysis Method Number | Method Detection Limit |
|---|---|---|---|
| Gasoline, Jet, Diesel, Fuel Oil | | EPA 8260B, 8015B | |
| Heavy Fuel Oils | | EPA 8260B | |
| Waste Motor Oils | | EPA 8270 SIM,EPA 6010 | |

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Worker's Compensation Certificate copy

    Name of Insurer XL Insurance America, Inc.

19. Submit Plot Plan ***(See Instructions)***

20. Enclose Deposit (See Instructions)

21. **Report all leaks or contamination to this office within 5 days of discovery**. The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (URL) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The closure report must contain all information listed in item 22 of the instructions.**

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one-B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner).

I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan has been approved.

I understand that any changes in design, materials, or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

**Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.**

CONTRACTOR INFORMATION

Name of Business Pacific States Environmental Contractors, Inc.

Name of Individual Kris Gretsinger

Signature _____ Date _____

[ X ] PROPERTY OWNER OR [ ] MOST RECENT TANK OPERATOR (Check one)

Name of Business 3093 Broadway Holdings, LLC.

Name of Individual STEPHEN SIRI

Signature _____ Date 6/16/16

# APPENDIX C
# HAZARDOUS WASTE MANIFEST AND DISPOSAL RECORDS

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

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator ID Number: C A C 0 0 2 8 5 6 6 8 1

2. Page 1 of: 1

3. Emergency Response Phone: 800-424-9300

4. Manifest Tracking Number: 016021009 JJK

5. Generator's Name and Mailing Address
3093 Broadway Holdings, LLC
44 Montgomery St STE 4050
San Francisco CA 94104
Generator's Phone: 925 766-5522

Generator's Site Address (if different than mailing address)
3093 Broadway Holdings, LLC
3093 Broadway Ave
Oakland CA 94611

6. Transporter 1 Company Name: Environmental Logistics, Inc.
U.S. EPA ID Number: C A R 0 0 0 2 1 7 5 1 3

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ecology Control Industries
255 Parr Blvd.
Richmond CA 94801
Facility's Phone: 310 354-9999
U.S. EPA ID Number: C A D 0 0 9 4 6 6 3 9 2

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
|---|---|---|---|---|---|---|
| | 1. Non-RCRA Hazardous Waste Solid (Empty Tank) | 01 | CM | 20 | Y | 512 |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |

14. Special Handling Instructions and Additional Information
1)Empty Tank - _____ WO#305717N
SCT5017
TANK # 34753
Bill #4032

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEPHEN SIRI
Signature
Month: 07 Day: 8 Year: 16

**INT'L**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter signature (for exports only): Date leaving U.S.:

**TRANSPORTER**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Arturo Sopon
Signature
Month: 07 Day: 08 Year: 16

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

**DESIGNATED FACILITY**

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

| 1. | 2. | 3. | 4. |
|---|---|---|---|
| H129 | | | |

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: BILL MAASKE
Signature
Month: 7 Day: 12 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

**DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

# APPENDIX D
# ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY RECORDS

McCampbell Analytical, Inc.

*"When Quality Counts"*

# Analytical Report

**WorkOrder:** 1607292

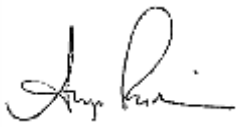
**Report Created for:** Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

**Project Contact:** Robert Schultz
**Project P.O.:**
**Project Name:** 731637001; 3093 Broadway

**Project Received:** 07/08/2016

Analytical Report reviewed & approved for release on 07/11/2016 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
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# Glossary of Terms & Qualifier Definitions

**Client:** Treadwell & Rollo
**Project:** 731637001; 3093 Broadway
**WorkOrder:** 1607292

## Glossary Abbreviation

| | |
|---|---|
| %D | Serial Dilution Percent Difference |
| 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 (Serial Dilution) |
| DUP | Duplicate |
| e | spike reference value above calibration level |
| 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 |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |

## Quality Control Qualifiers

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

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

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8082 |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/kg |

## Polychlorinated Biphenyls (PCBs) Aroclors

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| UST-2 | 1607292-001A | Soil | 07/08/2016 13:15 | GC22 | 123440 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Aroclor1016 | ND | 0.050 | 1 | 07/09/2016 06:54 |
| Aroclor1221 | ND | 0.050 | 1 | 07/09/2016 06:54 |
| Aroclor1232 | ND | 0.050 | 1 | 07/09/2016 06:54 |
| Aroclor1242 | ND | 0.050 | 1 | 07/09/2016 06:54 |
| Aroclor1248 | ND | 0.050 | 1 | 07/09/2016 06:54 |
| Aroclor1254 | ND | 0.050 | 1 | 07/09/2016 06:54 |
| Aroclor1260 | ND | 0.050 | 1 | 07/09/2016 06:54 |
| PCBs, total | ND | 0.050 | 1 | 07/09/2016 06:54 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Decachlorobiphenyl | 97 | 70-130 | 07/09/2016 06:54 |

Analyst(s): CK

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8260B |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/kg |

## Volatile Organics by P&T and GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| UST-2 | 1607292-001A | Soil | 07/08/2016 13:15 | GC16 | 123437 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Acetone | ND | 0.10 | 1 | 07/08/2016 23:38 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Benzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Bromobenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Bromochloromethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Bromodichloromethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Bromoform | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Bromomethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 07/08/2016 23:38 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 07/08/2016 23:38 |
| n-Butyl benzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Carbon Disulfide | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Chlorobenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Chloroethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Chloroform | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Chloromethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Dibromochloromethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 07/08/2016 23:38 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 07/08/2016 23:38 |
| Dibromomethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 07/08/2016 23:38 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 07/08/2016 23:38 |

*(Cont.)*

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

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8260B |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/kg |

## Volatile Organics by P&T and GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| UST-2 | 1607292-001A | Soil | 07/08/2016 13:15 | GC16 | 123437 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Ethylbenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Freon 113 | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Hexachloroethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 2-Hexanone | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Isopropylbenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Methylene chloride | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Naphthalene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| n-Propyl benzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Styrene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Tetrachloroethene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Toluene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Trichloroethene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Vinyl Chloride | ND | 0.0050 | 1 | 07/08/2016 23:38 |
| Xylenes, Total | ND | 0.0050 | 1 | 07/08/2016 23:38 |

*(Cont.)*

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8260B |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/kg |

## Volatile Organics by P&T and GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| UST-2 | 1607292-001A | Soil | 07/08/2016 13:15 | GC16 | 123437 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Surrogates | REC (%) | Limits | | |
| Dibromofluoromethane | 98 | 70-130 | | 07/08/2016 23:38 |
| Toluene-d8 | 113 | 70-130 | | 07/08/2016 23:38 |
| 4-BFB | 91 | 70-130 | | 07/08/2016 23:38 |
| Benzene-d6 | 98 | 60-140 | | 07/08/2016 23:38 |
| Ethylbenzene-d10 | 113 | 60-140 | | 07/08/2016 23:38 |
| 1,2-DCB-d4 | 82 | 60-140 | | 07/08/2016 23:38 |

Analyst(s): KF

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW5030B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8260B |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/kg |

## TPH(g) by Purge & Trap and GC/MS

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **UST-2** | **1607292-001A** | **Soil** | **07/08/2016 13:15** | **GC16** | **123437** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH(g) | ND | 0.25 | 1 | 07/08/2016 23:38 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Dibromofluoromethane | 99 | 70-130 | 07/08/2016 23:38 |
| Benzene-D6 | 88 | 60-140 | 07/08/2016 23:38 |

Analyst(s): KF

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8270C |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/Kg |

## Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| UST-2 | 1607292-001A | Soil | 07/08/2016 13:15 | GC21 | 123441 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Acenaphthene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Acenaphthylene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Acetochlor | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Anthracene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Benzidine | ND | 1.3 | 1 | 07/08/2016 22:11 |
| Benzo (a) anthracene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Benzo (a) pyrene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Benzo (b) fluoranthene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Benzo (g,h,i) perylene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Benzo (k) fluoranthene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Benzyl Alcohol | ND | 1.3 | 1 | 07/08/2016 22:11 |
| 1,1-Biphenyl | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Bis (2-chloroethoxy) Methane | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Bis (2-chloroethyl) Ether | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Bis (2-chloroisopropyl) Ether | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Bis (2-ethylhexyl) Adipate | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Bis (2-ethylhexyl) Phthalate | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 4-Bromophenyl Phenyl Ether | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Butylbenzyl Phthalate | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 4-Chloroaniline | ND | 0.50 | 1 | 07/08/2016 22:11 |
| 4-Chloro-3-methylphenol | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2-Chloronaphthalene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2-Chlorophenol | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 4-Chlorophenyl Phenyl Ether | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Chrysene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Dibenzo (a,h) anthracene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Dibenzofuran | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Di-n-butyl Phthalate | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 1,2-Dichlorobenzene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 1,3-Dichlorobenzene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 1,4-Dichlorobenzene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 3,3-Dichlorobenzidine | ND | 0.50 | 1 | 07/08/2016 22:11 |
| 2,4-Dichlorophenol | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Diethyl Phthalate | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2,4-Dimethylphenol | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Dimethyl Phthalate | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 4,6-Dinitro-2-methylphenol | ND | 1.3 | 1 | 07/08/2016 22:11 |

*(Cont.)*

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8270C |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/Kg |

## Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| UST-2 | 1607292-001A | Soil | 07/08/2016 13:15 | GC21 | 123441 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| 2,4-Dinitrophenol | ND | 6.3 | 1 | 07/08/2016 22:11 |
| 2,4-Dinitrotoluene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2,6-Dinitrotoluene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Di-n-octyl Phthalate | ND | 0.50 | 1 | 07/08/2016 22:11 |
| 1,2-Diphenylhydrazine | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Fluoranthene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Fluorene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Hexachlorobenzene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Hexachlorobutadiene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Hexachlorocyclopentadiene | ND | 1.3 | 1 | 07/08/2016 22:11 |
| Hexachloroethane | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Indeno (1,2,3-cd) pyrene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Isophorone | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2-Methylnaphthalene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2-Methylphenol (o-Cresol) | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Naphthalene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2-Nitroaniline | ND | 1.3 | 1 | 07/08/2016 22:11 |
| 3-Nitroaniline | ND | 1.3 | 1 | 07/08/2016 22:11 |
| 4-Nitroaniline | ND | 1.3 | 1 | 07/08/2016 22:11 |
| Nitrobenzene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2-Nitrophenol | ND | 1.3 | 1 | 07/08/2016 22:11 |
| 4-Nitrophenol | ND | 1.3 | 1 | 07/08/2016 22:11 |
| N-Nitrosodiphenylamine | ND | 0.25 | 1 | 07/08/2016 22:11 |
| N-Nitrosodi-n-propylamine | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Pentachlorophenol | ND | 1.3 | 1 | 07/08/2016 22:11 |
| Phenanthrene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Phenol | ND | 0.25 | 1 | 07/08/2016 22:11 |
| Pyrene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 1,2,4-Trichlorobenzene | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2,4,5-Trichlorophenol | ND | 0.25 | 1 | 07/08/2016 22:11 |
| 2,4,6-Trichlorophenol | ND | 0.25 | 1 | 07/08/2016 22:11 |

*(Cont.)*

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Angela Rydelius, Lab Manager

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8270C |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/Kg |

## Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| UST-2 | 1607292-001A | Soil | 07/08/2016 13:15 | GC21 | 123441 |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| **Surrogates** | **REC (%)** | **Limits** | | |
| 2-Fluorophenol | 102 | 30-130 | | 07/08/2016 22:11 |
| Phenol-d5 | 95 | 30-130 | | 07/08/2016 22:11 |
| Nitrobenzene-d5 | 84 | 30-130 | | 07/08/2016 22:11 |
| 2-Fluorobiphenyl | 80 | 30-130 | | 07/08/2016 22:11 |
| 2,4,6-Tribromophenol | 71 | 16-130 | | 07/08/2016 22:11 |
| 4-Terphenyl-d14 | 78 | 30-130 | | 07/08/2016 22:11 |

Analyst(s): REB

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW3050B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW6020 |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/Kg |

## LUFT 5 Metals

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **UST-2** | **1607292-001A** | **Soil** | **07/08/2016 13:15** | **ICP-MS1** | **123454** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| Cadmium | **0.28** | 0.25 | 1 | 07/11/2016 14:01 |
| Chromium | **59** | 0.50 | 1 | 07/11/2016 14:01 |
| Lead | **3.9** | 0.50 | 1 | 07/11/2016 14:01 |
| Nickel | **48** | 0.50 | 1 | 07/11/2016 14:01 |
| Zinc | **43** | 5.0 | 1 | 07/11/2016 14:01 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| Terbium | 96 | 70-130 | 07/11/2016 14:01 |

Analyst(s): DVH

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Received:** | 7/8/16 14:45 | **Extraction Method:** | SW3550B |
| **Date Prepared:** | 7/8/16 | **Analytical Method:** | SW8015B |
| **Project:** | 731637001; 3093 Broadway | **Unit:** | mg/Kg |

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

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|---|---|---|---|---|---|
| **UST-2** | **1607292-001A** | **Soil** | **07/08/2016 13:15** | **GC6B** | **123425** |

| Analytes | Result | RL | DF | Date Analyzed |
|---|---|---|---|---|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 07/08/2016 17:26 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 07/08/2016 17:26 |

| Surrogates | REC (%) | Limits | |
|---|---|---|---|
| C9 | 91 | 70-130 | 07/08/2016 17:26 |

Analyst(s): TK

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/8/16 | **BatchID:** | 123440 |
| **Date Analyzed:** | 7/9/16 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC22 | **Analytical Method:** | SW8082 |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123440<br>1607260-007AMS/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 | 0.157 | 0.050 | 0.15 | - | 105 | 70-130 |
| PCBs, total | ND | - | 0.050 | - | - | - | - |
| **Surrogate Recovery** | | | | | | | |
| Decachlorobiphenyl | 0.0506 | 0.0633 | | 0.050 | 101 | 127 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor1260 | 0.137 | 0.139 | 0.15 | ND | 91 | 93 | 70-130 | 1.22 | 20 |
| **Surrogate Recovery** | | | | | | | | | |
| Decachlorobiphenyl | 0.0520 | 0.0541 | 0.050 | | 104 | 108 | 70-130 | 3.81 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/7/16 | **BatchID:** | 123425 |
| **Date Analyzed:** | 7/8/16 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC11B, GC6A | **Analytical Method:** | SW8015B |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123425<br>1607254-002AMS/MSD |

## 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 | 44.7 | 1.0 | 40 | - | 112 | 70-130 |
| TPH-Motor Oil (C18-C36) | ND | - | 5.0 | - | - | - | - |
| **Surrogate Recovery** | | | | | | | |
| C9 | 24.6 | 23.9 | | 25 | 98 | 96 | 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) | 48.6 | 46.3 | 40 | 4.083 | 111 | 105 | 70-130 | 4.98 | 30 |
| **Surrogate Recovery** | | | | | | | | | |
| C9 | 24.5 | 24.6 | 25 | | 98 | 99 | 70-130 | 0.631 | 30 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/8/16 | **BatchID:** | 123437 |
| **Date Analyzed:** | 7/8/16 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC16 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123437<br>1607259-022AMS/MSD |

## QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| Acetone | ND | - | 0.10 | - | - | - | - |
| tert-Amyl methyl ether (TAME) | ND | 0.0465 | 0.0050 | 0.050 | - | 93 | 53-116 |
| Benzene | ND | 0.0533 | 0.0050 | 0.050 | - | 107 | 63-137 |
| Bromobenzene | ND | - | 0.0050 | - | - | - | - |
| Bromochloromethane | ND | - | 0.0050 | - | - | - | - |
| Bromodichloromethane | ND | - | 0.0050 | - | - | - | - |
| Bromoform | ND | - | 0.0050 | - | - | - | - |
| Bromomethane | ND | - | 0.0050 | - | - | - | - |
| 2-Butanone (MEK) | ND | - | 0.020 | - | - | - | - |
| t-Butyl alcohol (TBA) | ND | 0.194 | 0.050 | 0.20 | - | 97 | 41-135 |
| n-Butyl benzene | ND | - | 0.0050 | - | - | - | - |
| sec-Butyl benzene | ND | - | 0.0050 | - | - | - | - |
| tert-Butyl benzene | ND | - | 0.0050 | - | - | - | - |
| Carbon Disulfide | ND | - | 0.0050 | - | - | - | - |
| Carbon Tetrachloride | ND | - | 0.0050 | - | - | - | - |
| Chlorobenzene | ND | 0.0520 | 0.0050 | 0.050 | - | 104 | 77-121 |
| Chloroethane | ND | - | 0.0050 | - | - | - | - |
| Chloroform | ND | - | 0.0050 | - | - | - | - |
| Chloromethane | ND | - | 0.0050 | - | - | - | - |
| 2-Chlorotoluene | ND | - | 0.0050 | - | - | - | - |
| 4-Chlorotoluene | ND | - | 0.0050 | - | - | - | - |
| Dibromochloromethane | ND | - | 0.0050 | - | - | - | - |
| 1,2-Dibromo-3-chloropropane | ND | - | 0.0040 | - | - | - | - |
| 1,2-Dibromoethane (EDB) | ND | 0.0491 | 0.0040 | 0.050 | - | 98 | 67-119 |
| Dibromomethane | ND | - | 0.0050 | - | - | - | - |
| 1,2-Dichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,4-Dichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| Dichlorodifluoromethane | ND | - | 0.0050 | - | - | - | - |
| 1,1-Dichloroethane | ND | - | 0.0050 | - | - | - | - |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0509 | 0.0040 | 0.050 | - | 102 | 58-135 |
| 1,1-Dichloroethene | ND | 0.0516 | 0.0050 | 0.050 | - | 103 | 42-145 |
| cis-1,2-Dichloroethene | ND | - | 0.0050 | - | - | - | - |
| trans-1,2-Dichloroethene | ND | - | 0.0050 | - | - | - | - |
| 1,2-Dichloropropane | ND | - | 0.0050 | - | - | - | - |
| 1,3-Dichloropropane | ND | - | 0.0050 | - | - | - | - |
| 2,2-Dichloropropane | ND | - | 0.0050 | - | - | - | - |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/8/16 | **BatchID:** | 123437 |
| **Date Analyzed:** | 7/8/16 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC16 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123437<br>1607259-022AMS/MSD |

## QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | - | 0.0050 | - | - | - | - |
| cis-1,3-Dichloropropene | ND | - | 0.0050 | - | - | - | - |
| trans-1,3-Dichloropropene | ND | - | 0.0050 | - | - | - | - |
| Diisopropyl ether (DIPE) | ND | 0.0504 | 0.0050 | 0.050 | - | 101 | 52-129 |
| Ethylbenzene | ND | - | 0.0050 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0494 | 0.0050 | 0.050 | - | 99 | 53-125 |
| Freon 113 | ND | - | 0.0050 | - | - | - | - |
| Hexachlorobutadiene | ND | - | 0.0050 | - | - | - | - |
| Hexachloroethane | ND | - | 0.0050 | - | - | - | - |
| 2-Hexanone | ND | - | 0.0050 | - | - | - | - |
| Isopropylbenzene | ND | - | 0.0050 | - | - | - | - |
| 4-Isopropyl toluene | ND | - | 0.0050 | - | - | - | - |
| Methyl-t-butyl ether (MTBE) | ND | 0.0492 | 0.0050 | 0.050 | - | 98 | 58-122 |
| Methylene chloride | ND | - | 0.0050 | - | - | - | - |
| 4-Methyl-2-pentanone (MIBK) | ND | - | 0.0050 | - | - | - | - |
| Naphthalene | ND | - | 0.0050 | - | - | - | - |
| n-Propyl benzene | ND | - | 0.0050 | - | - | - | - |
| Styrene | ND | - | 0.0050 | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | ND | - | 0.0050 | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | ND | - | 0.0050 | - | - | - | - |
| Tetrachloroethene | ND | - | 0.0050 | - | - | - | - |
| Toluene | ND | 0.0579 | 0.0050 | 0.050 | - | 116 | 76-130 |
| 1,2,3-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,2,4-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,1,1-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| 1,1,2-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| Trichloroethene | ND | 0.0539 | 0.0050 | 0.050 | - | 108 | 72-132 |
| Trichlorofluoromethane | ND | - | 0.0050 | - | - | - | - |
| 1,2,3-Trichloropropane | ND | - | 0.0050 | - | - | - | - |
| 1,2,4-Trimethylbenzene | ND | - | 0.0050 | - | - | - | - |
| 1,3,5-Trimethylbenzene | ND | - | 0.0050 | - | - | - | - |
| Vinyl Chloride | ND | - | 0.0050 | - | - | - | - |
| Xylenes, Total | ND | - | 0.0050 | - | - | - | - |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/8/16 | **BatchID:** | 123437 |
| **Date Analyzed:** | 7/8/16 | **Extraction Method:** | SW5030B |
| **Instrument:** | GC16 | **Analytical Method:** | SW8260B |
| **Matrix:** | Soil | **Unit:** | mg/kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123437<br>1607259-022AMS/MSD |

## QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| **Surrogate Recovery** | | | | | | | |
| Dibromofluoromethane | 0.122 | 0.126 | | 0.12 | 98 | 101 | 70-130 |
| Toluene-d8 | 0.142 | 0.138 | | 0.12 | 114 | 110 | 70-130 |
| 4-BFB | 0.0116 | 0.0116 | | 0.012 | 93 | 93 | 70-130 |
| Benzene-d6 | 0.108 | 0.104 | | 0.10 | 108 | 104 | 60-140 |
| Ethylbenzene-d10 | 0.126 | 0.124 | | 0.10 | 126 | 124 | 60-140 |
| 1,2-DCB-d4 | 0.0885 | 0.0875 | | 0.10 | 88 | 87 | 60-140 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| tert-Amyl methyl ether (TAME) | 0.0294 | 0.0300 | 0.050 | ND | 59 | 60 | 53-116 | 1.99 | 20 |
| Benzene | 0.0424 | 0.0429 | 0.050 | ND | 85 | 86 | 63-137 | 1.23 | 20 |
| t-Butyl alcohol (TBA) | 0.132 | 0.133 | 0.20 | ND | 66 | 66 | 41-135 | 0 | 20 |
| Chlorobenzene | 0.0479 | 0.0482 | 0.050 | ND | 96 | 96 | 77-121 | 0 | 20 |
| 1,2-Dibromoethane (EDB) | 0.0411 | 0.0415 | 0.050 | ND | 82 | 83 | 67-119 | 0.986 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 0.0389 | 0.0399 | 0.050 | ND | 78 | 80 | 58-135 | 2.61 | 20 |
| 1,1-Dichloroethene | 0.0438 | 0.0438 | 0.050 | ND | 88 | 88 | 42-145 | 0 | 20 |
| Diisopropyl ether (DIPE) | 0.0195 | 0.0273 | 0.050 | ND | 39,F1 | 55 | 52-129 | 33.5,F1 | 20 |
| Ethyl tert-butyl ether (ETBE) | 0.0321 | 0.0332 | 0.050 | ND | 64 | 66 | 53-125 | 3.30 | 20 |
| Methyl-t-butyl ether (MTBE) | 0.0342 | 0.0349 | 0.050 | ND | 68 | 70 | 58-122 | 1.86 | 20 |
| Toluene | 0.0486 | 0.0490 | 0.050 | ND | 97 | 98 | 76-130 | 0.689 | 20 |
| Trichloroethene | 0.0442 | 0.0450 | 0.050 | ND | 88 | 90 | 72-132 | 1.69 | 20 |
| **Surrogate Recovery** | | | | | | | | | |
| Dibromofluoromethane | 0.111 | 0.112 | 0.12 | | 88 | 90 | 70-130 | 1.66 | 20 |
| Toluene-d8 | 0.128 | 0.127 | 0.12 | | 102 | 102 | 70-130 | 0 | 20 |
| 4-BFB | 0.0108 | 0.0108 | 0.012 | | 86 | 87 | 70-130 | 0.371 | 20 |
| Benzene-d6 | 0.0840 | 0.0850 | 0.10 | | 84 | 85 | 60-140 | 1.26 | 20 |
| Ethylbenzene-d10 | 0.108 | 0.107 | 0.10 | | 108 | 107 | 60-140 | 0.845 | 20 |
| 1,2-DCB-d4 | 0.0884 | 0.0878 | 0.10 | | 88 | 88 | 60-140 | 0 | 20 |

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/8/16 | **BatchID:** | 123441 |
| **Date Analyzed:** | 7/8/16 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC21 | **Analytical Method:** | SW8270C |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123441<br>1607066-001AMS/MSD |

## QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 3.82 | 0.25 | 5 | - | 76 | 46-118 |
| Acenaphthylene | ND | - | 0.25 | - | - | - | - |
| Acetochlor | ND | - | 0.25 | - | - | - | - |
| Anthracene | ND | - | 0.25 | - | - | - | - |
| Benzidine | ND | - | 1.3 | - | - | - | - |
| Benzo (a) anthracene | ND | - | 0.25 | - | - | - | - |
| Benzo (a) pyrene | ND | - | 0.25 | - | - | - | - |
| Benzo (b) fluoranthene | ND | - | 0.25 | - | - | - | - |
| Benzo (g,h,i) perylene | ND | - | 0.25 | - | - | - | - |
| Benzo (k) fluoranthene | ND | - | 0.25 | - | - | - | - |
| Benzyl Alcohol | ND | - | 1.3 | - | - | - | - |
| 1,1-Biphenyl | ND | - | 0.25 | - | - | - | - |
| Bis (2-chloroethoxy) Methane | ND | - | 0.25 | - | - | - | - |
| Bis (2-chloroethyl) Ether | ND | - | 0.25 | - | - | - | - |
| Bis (2-chloroisopropyl) Ether | ND | - | 0.25 | - | - | - | - |
| Bis (2-ethylhexyl) Adipate | ND | - | 0.25 | - | - | - | - |
| Bis (2-ethylhexyl) Phthalate | ND | - | 0.25 | - | - | - | - |
| 4-Bromophenyl Phenyl Ether | ND | - | 0.25 | - | - | - | - |
| Butylbenzyl Phthalate | ND | - | 0.25 | - | - | - | - |
| 4-Chloroaniline | ND | - | 0.50 | - | - | - | - |
| 4-Chloro-3-methylphenol | ND | 4.27 | 0.25 | 5 | - | 85 | 49-123 |
| 2-Chloronaphthalene | ND | - | 0.25 | - | - | - | - |
| 2-Chlorophenol | ND | 4.10 | 0.25 | 5 | - | 82 | 55-116 |
| 4-Chlorophenyl Phenyl Ether | ND | - | 0.25 | - | - | - | - |
| Chrysene | ND | - | 0.25 | - | - | - | - |
| Dibenzo (a,h) anthracene | ND | - | 0.25 | - | - | - | - |
| Dibenzofuran | ND | - | 0.25 | - | - | - | - |
| Di-n-butyl Phthalate | ND | - | 0.25 | - | - | - | - |
| 1,2-Dichlorobenzene | ND | - | 0.25 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | - | 0.25 | - | - | - | - |
| 1,4-Dichlorobenzene | ND | 3.58 | 0.25 | 5 | - | 72 | 50-102 |
| 3,3-Dichlorobenzidine | ND | - | 0.50 | - | - | - | - |
| 2,4-Dichlorophenol | ND | - | 0.25 | - | - | - | - |
| Diethyl Phthalate | ND | - | 0.25 | - | - | - | - |
| 2,4-Dimethylphenol | ND | - | 0.25 | - | - | - | - |
| Dimethyl Phthalate | ND | - | 0.25 | - | - | - | - |
| 4,6-Dinitro-2-methylphenol | ND | - | 1.3 | - | - | - | - |

*(Cont.)*

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/8/16 | **BatchID:** | 123441 |
| **Date Analyzed:** | 7/8/16 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC21 | **Analytical Method:** | SW8270C |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123441<br>1607066-001AMS/MSD |

## QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| 2,4-Dinitrophenol | ND | - | 6.3 | - | - | - | - |
| 2,4-Dinitrotoluene | ND | 4.23 | 0.25 | 5 | - | 85 | 47-117 |
| 2,6-Dinitrotoluene | ND | - | 0.25 | - | - | - | - |
| Di-n-octyl Phthalate | ND | - | 0.50 | - | - | - | - |
| 1,2-Diphenylhydrazine | ND | - | 0.25 | - | - | - | - |
| Fluoranthene | ND | - | 0.25 | - | - | - | - |
| Fluorene | ND | - | 0.25 | - | - | - | - |
| Hexachlorobenzene | ND | - | 0.25 | - | - | - | - |
| Hexachlorobutadiene | ND | - | 0.25 | - | - | - | - |
| Hexachlorocyclopentadiene | ND | - | 1.3 | - | - | - | - |
| Hexachloroethane | ND | - | 0.25 | - | - | - | - |
| Indeno (1,2,3-cd) pyrene | ND | - | 0.25 | - | - | - | - |
| Isophorone | ND | - | 0.25 | - | - | - | - |
| 2-Methylnaphthalene | ND | - | 0.25 | - | - | - | - |
| 2-Methylphenol (o-Cresol) | ND | - | 0.25 | - | - | - | - |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | - | 0.25 | - | - | - | - |
| Naphthalene | ND | - | 0.25 | - | - | - | - |
| 2-Nitroaniline | ND | - | 1.3 | - | - | - | - |
| 3-Nitroaniline | ND | - | 1.3 | - | - | - | - |
| 4-Nitroaniline | ND | - | 1.3 | - | - | - | - |
| Nitrobenzene | ND | - | 0.25 | - | - | - | - |
| 2-Nitrophenol | ND | - | 1.3 | - | - | - | - |
| 4-Nitrophenol | ND | 3.63 | 1.3 | 5 | - | 73 | 40-102 |
| N-Nitrosodiphenylamine | ND | - | 0.25 | - | - | - | - |
| N-Nitrosodi-n-propylamine | ND | 3.88 | 0.25 | 5 | - | 78 | 47-108 |
| Pentachlorophenol | ND | 4.36 | 1.3 | 5 | - | 87 | 39-134 |
| Phenanthrene | ND | - | 0.25 | - | - | - | - |
| Phenol | ND | 3.79 | 0.25 | 5 | - | 76 | 49-107 |
| Pyrene | ND | 4.42 | 0.25 | 5 | - | 89 | 55-124 |
| 1,2,4-Trichlorobenzene | ND | 4.11 | 0.25 | 5 | - | 82 | 51-121 |
| 2,4,5-Trichlorophenol | ND | - | 0.25 | - | - | - | - |
| 2,4,6-Trichlorophenol | ND | - | 0.25 | - | - | - | - |

*(Cont.)*

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QA/QC Officer

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# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/8/16 | **BatchID:** | 123441 |
| **Date Analyzed:** | 7/8/16 | **Extraction Method:** | SW3550B |
| **Instrument:** | GC21 | **Analytical Method:** | SW8270C |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123441<br>1607066-001AMS/MSD |

## QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| **Surrogate Recovery** | | | | | | | |
| 2-Fluorophenol | 5.10 | 4.71 | | 5 | 102 | 94 | 47-125 |
| Phenol-d5 | 4.81 | 4.38 | | 5 | 96 | 88 | 45-117 |
| Nitrobenzene-d5 | 4.26 | 4.26 | | 5 | 85 | 85 | 39-121 |
| 2-Fluorobiphenyl | 4.09 | 4.03 | | 5 | 82 | 81 | 35-120 |
| 2,4,6-Tribromophenol | 3.62 | 3.80 | | 5 | 72 | 76 | 32-111 |
| 4-Terphenyl-d14 | 4.53 | 4.08 | | 5 | 91 | 82 | 32-128 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | NR | NR | | ND<20 | NR | NR | - | NR | |
| 4-Chloro-3-methylphenol | NR | NR | | ND<20 | NR | NR | - | NR | |
| 2-Chlorophenol | NR | NR | | ND<20 | NR | NR | - | NR | |
| 1,4-Dichlorobenzene | NR | NR | | ND<20 | NR | NR | - | NR | |
| 2,4-Dinitrotoluene | NR | NR | | ND<20 | NR | NR | - | NR | |
| 4-Nitrophenol | NR | NR | | ND<100 | NR | NR | - | NR | |
| N-Nitrosodi-n-propylamine | NR | NR | | ND<20 | NR | NR | - | NR | |
| Pentachlorophenol | NR | NR | | ND<100 | NR | NR | - | NR | |
| Phenol | NR | NR | | ND<20 | NR | NR | - | NR | |
| Pyrene | NR | NR | | ND<20 | NR | NR | - | NR | |
| 1,2,4-Trichlorobenzene | NR | NR | | ND<20 | NR | NR | - | NR | |
| **Surrogate Recovery** | | | | | | | | | |
| 2-Fluorophenol | NR | NR | | | NR | NR | - | NR | |
| Phenol-d5 | NR | NR | | | NR | NR | - | NR | |
| Nitrobenzene-d5 | NR | NR | | | NR | NR | - | NR | |
| 2-Fluorobiphenyl | NR | NR | | | NR | NR | - | NR | |
| 2,4,6-Tribromophenol | NR | NR | | | NR | NR | - | NR | |
| 4-Terphenyl-d14 | NR | NR | | | NR | NR | - | NR | |

**CLIENT:** Treadwell & Rollo
**Work Order:** 1607292
**Project:** 731637001; 3093 Broadway

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 123437**

| SampleID **MB-123437** | TestCode: **8260GAS_s** | Units: **mg/kg** | Prep Date: **7/8/2016** |
|---|---|---|---|
| Batch ID: **123437** | TestNo: **SW8260B** | Run ID: **GC16_160711D** | Analysis Date: **7/8/2016** |

| Analyte | Result | PQL | SPKValue | SPKRefVal | %REC | Limits | RPDRefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH(g) | ND | 0.25 | | | | - | | | | |
| ***Surrogate Recovery*** | | | | | | | | | | |
| Dibromofluoromethane | 0.125 | | 0.125 | | 100 | 70 - 130 | | | | |
| Benzene-D6 | 0.0974 | | 0.1 | | 97 | 70 - 130 | | | | |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

**CLIENT:** Treadwell & Rollo
**Work Order:** 1607292
**Project:** 731637001; 3093 Broadway

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 123437**

| SampleID **LCS-123437** | TestCode: **8260GAS_s** | Units: **mg/kg** | Prep Date: **7/8/2016** |
|---|---|---|---|
| Batch ID: **123437** | TestNo: **SW8260B** | Run ID: **GC16_160711D** | Analysis Date: **7/8/2016** |

| Analyte | Result | PQL | SPKValue | SPKRefVal | %REC | Limits | RPDRefVal | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| VOC (C6-C12) | 2.89 | 0.25 | 3.2 | 0 | 90 | 74 - 142 | | | | |
| ***Surrogate Recovery*** | | | | | | | | | | |
| Dibromofluoromethane | 0.129 | | 0.125 | | 103 | 70 - 130 | | | | |
| Benzene-D6 | 0.0946 | | 0.1 | | 95 | 60 - 140 | | | | |

**Qualifiers:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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

# Quality Control Report

| | | | |
|---|---|---|---|
| **Client:** | Treadwell & Rollo | **WorkOrder:** | 1607292 |
| **Date Prepared:** | 7/8/16 | **BatchID:** | 123454 |
| **Date Analyzed:** | 7/11/16 | **Extraction Method:** | SW3050B |
| **Instrument:** | ICP-MS1 | **Analytical Method:** | SW6020 |
| **Matrix:** | Soil | **Unit:** | mg/Kg |
| **Project:** | 731637001; 3093 Broadway | **Sample ID:** | MB/LCS-123454<br>1607280-001AMS/MSD |

## QC Summary Report for Metals

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---|---|---|---|---|---|---|---|
| Cadmium | ND | 49.3 | 0.25 | 50 | - | 99 | 75-125 |
| Chromium | ND | 49.3 | 0.50 | 50 | - | 99 | 75-125 |
| Lead | ND | 50.3 | 0.50 | 50 | - | 101 | 75-125 |
| Nickel | ND | 50.4 | 0.50 | 50 | - | 101 | 75-125 |
| Zinc | ND | 511 | 5.0 | 500 | - | 102 | 75-125 |
| **Surrogate Recovery** | | | | | | | |
| Terbium | 494 | 486 | | 500 | 99 | 97 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 49.0 | 48.6 | 50 | ND | 98 | 97 | 75-125 | 0.697 | 20 |
| Chromium | 84.2 | 87.7 | 50 | 38.05 | 92 | 99 | 75-125 | 3.99 | 20 |
| Lead | 54.1 | 53.7 | 50 | 3.702 | 101 | 100 | 75-125 | 0.742 | 20 |
| Nickel | 81.0 | 81.3 | 50 | 34.21 | 94 | 94 | 75-125 | 0 | 20 |
| Zinc | 526 | 512 | 500 | 29.70 | 99 | 97 | 75-125 | 2.72 | 20 |
| **Surrogate Recovery** | | | | | | | | | |
| Terbium | 500 | 507 | 500 | | 100 | 101 | 70-130 | 1.43 | 20 |

| Analyte | DLT Result | DLTRef Val | %D | %D Limit |
|---|---|---|---|---|
| Cadmium | ND<1.2 | ND | - | - |
| Chromium | 40.3 | 38.05 | 5.91 | 20 |
| Lead | 3.68 | 3.702 | 0.594 | - |
| Nickel | 36.1 | 34.21 | 5.52 | 20 |
| Zinc | 41.5 | 29.70 | 39.7 | - |

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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



**WorkOrder: 1607292** **ClientCode: TWRF**

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

**Report to:**
Robert Schultz
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: rschultz@Langan.com, thoughton@langan.
cc/3rd Party: thoughton@langan.com;
PO:
ProjectNo: 731637001; 3093 Broadway

**Bill to:**
Accounts Payable
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
Langan_InvoiceCapture@concursolutio

**Requested TAT:** 1 day;

***Date Received:*** **07/08/2016**
***Date Logged:*** **07/08/2016**

| 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 |
| 1607292-001 | UST-2 | Soil | 7/8/2016 13:15 | ☐ | A | A | A | A | A | A | | | | | | |

**Test Legend:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 8082_PCB_S | 2 | 8260B_S | 3 | 8260GAS_S | 4 | 8270_S |
| 5 | LUFTMS_6020_TTLC_S | 6 | TPH(DMO)_S | 7 | | 8 | |
| 9 | | 10 | | 11 | | 12 | |

**Prepared by: Jena Alfaro**

The following SampID: 001A contains testgroup.

**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:** TREADWELL & ROLLO
**Project:** 731637001; 3093 Broadway
**Comments:**

**QC Level:** LEVEL 2
**Client Contact:** Robert Schultz
**Contact's Email:** rschultz@Langan.com, thoughton@langan.com

**Work Order:** 1607292
**Date Logged:** 7/8/2016

☐ 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1607292-001A | UST-2 | Soil | SW8015B (Diesel & Motor Oil) | 1 | Stainless Steel tube 2"x6" | ☐ | 7/8/2016 13:15 | 1 day | | ☐ | |
| | | | SW6020 (LUFT) | | | ☐ | | 1 day | | ☐ | |
| | | | SW8270C (SVOCs) | | | ☐ | | 1 day | | ☐ | |
| | | | TPH(g) & 8260 (Basic List) by P&T GCMS | | | ☐ | | 1 day | | ☐ | |
| | | | SW8082 (PCBs Only) | | | ☐ | | 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 1607292

008011

# Treadwell&Rollo

*Environmental and Geotechnical Consultant*

## CHAIN OF CUSTODY RECORD




- [x] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
- [ ] 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
- [ ] 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413
- [ ] 50 Airport Parkway, Suite 175, San Jose, CA 95110 Ph: 408.437.7708/Fax: 408.437.7709


Site Name: 3093 Broadway

Job Number: 731637001 THaughton@Langan.com

Project Manager\Contact: Robert Schultz rschultz@langan.com

Samplers: Tyler Haughton

Recorder (Signature Required): Tyler Haughton

**Turnaround Time:** Rush

| Field Sample Identification No. | Date | Time | Lab Sample No. | Matrix: Soil | Water | Air | Other | No. Containers & Preservative: HCL | $H_2SO_4$ | $HNO_3$ | Ice | Analysis Requested: TPHg EPA 8260B/C | TPHdmo-EPA 8015 | VOCs EPA 8260B/C full scan | Metals EPA 6010 | PCBs EPA 8082 | SVOCs EPA 8270 | Silica gel clean-up | Hold | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~UST-2~~ | | | | 1 | | | | | | | 1 | | | | | | | | | |
| ~~UST-2~~ | | | | 1 | | | | | | | 1 | | | | | | | | | |
| UST-2 | 7-8-16 | 1315 | | 1 | | | | | | | 1 | X | X | X | X | X | X | | | |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: (Signature) Tyler Haught | Date 7-8-16 | Time ~~1315~~ 1350 | Received by: (Signature) | Date 07/8/16 | Time 1350 |
| Relinquished by: (Signature) | Date 7/8/16 | Time 1445 | Received by: (Signature) | Date 7/8/16 | Time 1445 |
| Relinquished by: (Signature) | Date | Time | Received by Lab: (Signature) | Date | Time |

Sent to Laboratory (Name): McCampbell

Laboratory Comments/Notes: 11°. wet/ice

Method of Shipment: [x] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number:

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

# Sample Receipt Checklist

| | | | |
|---|---|---|---|
| Client Name: | **Treadwell & Rollo** | Date and Time Received: | **7/8/2016 14:45** |
| Project Name: | **731637001; 3093 Broadway** | Date Logged: | **7/8/2016** |
| WorkOrder №: | **1607292** Matrix: Soil | Received by: | Jena Alfaro |
| Carrier: | Courier | Logged by: | Jena Alfaro |

## 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: 11°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/BLU ) | | |

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 ☑ |

Comments: