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#### **CLOSURE REPORT**

#### SOUND BATTERY PROPERTY 2310 EAST 11<sup>th</sup> STREET TACOMA, WASHINGTON VOLUNTARY CLEANUP PROGRAM NO. SW1208

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# **TABLE OF CONTENTS**

ACRO	ONYMS	S AND ABBREVIATIONSiii
1.0	INTR	ODUCTION1-1
2.0	ORGA	ANIZATION2-1
3.0	SITE	DESCRIPTION AND BACKGROUND
	3.1	SITE DESCRIPTION
	3.2	GEOLOGY AND HYDROGEOLOGY
	3.3	PREVIOUS INVESTIGATIONS AND CLEANUP ACTION
	3.4	CONFIRMED SOURCE AREAS
4.0	CLEA	NUP ACTION TECHNICAL ELEMENTS
	4.1	MEDIUM AND CONSTITUENT OF CONCERN
	4.2	NATURE AND EXTENT OF LEAD IN SOIL
	4.3	TERRESTRIAL ECOLOGICAL EVALUATION
	4.4	CLEANUP STANDARDS
	4.5	APPLICABLE OR RELEVANT AND APPROPRIATE
		REQUIREMENTS AND PERMITS
5.0	CLEA	NUP ACTION
	5.1	OBJECTIVE OF CLEANUP ACTION
	5.2	DESCRIPTION OF CLEANUP ACTION
	5.3	CLEANUP ACTION ELEMENTS
		5.3.1 Permitting and Site Preparation
		5.3.2 Building Demolition and Pavement Removal
		5.3.3 Excavation
		5.3.4 Backfilling
		5.3.5 Compliance Monitoring
6.0	CLEA	NUP ACTION RESULTS
	6.1	PERFORMANCE SOIL SAMPLING
	6.2	CONFIRMATION SOIL SAMPLING
		6.2.1 Second Addition Excavation Area (Area A)
		6.2.2 Abandoned Concrete-Filled Floor Drain Inlet and Outlet
		Excavation Areas (Area A, Sub-Areas TP1 and TP2)6-2
		6.2.3 First Addition Excavation Area (Area B)
		6.2.4 Outside Building Footprint Excavation Area (Area C) 6-2
	6.3	PROTECTION MONITORING
	6.4	SOIL TRANSPORT, STABILIZATION, AND DISPOSAL



7.0	CONCLUSIONS AND REQUEST FOR NO FURTHER ACTION DETERMINATION	7-1
8.0	REFERENCES	8-1
9.0	LIMITATIONS	9-1

#### **FIGURES**

- Figure 1 Vicinity Map
- Figure 2 Site Plan
- Figure 3 Remedial Investigation and Performance Soil Sample Analytical Results
- Figure 4 Final Limits of Excavations and Confirmation Soil Sample Locations

#### **TABLES**

- Table 1
   Summary of Remedial Investigation and Performance Soil Sample Analytical Results
- Table 2
   Excavation Confirmation Soil Sample Analytical Results
- Table 3
   Breathing Zone and Site Boundary Air Filter Sample Analytical Results

#### **APPENDICES**

- Appendix A Permitting and Authorizations
- Appendix B Laboratory Analytical Reports
- Appendix C Waste Disposal Documentation



# **ACRONYMS AND ABBREVIATIONS**

bgsbelow ground surfaceCAPCleanup Action Plan, Sound Battery Property, 2310 East 11th Street, Tacoma, Washington dated July 24, 2014, prepared by Farallon Consulting, L.L.C. (Farallon)CFRCode of Federal RegulationsCOCconstituent of concernEcologyWashington State Department of EcologyEnCoEnCo Environmental CorporationFarallonFarallon Consulting, L.L.C.FFSFocused Feasibility Studymg/kgmilligrams per kilogramμg/lmicrograms per liter
Tacoma, Washington dated July 24, 2014, prepared by Farallon Consulting, L.L.C. (Farallon)CFRCode of Federal RegulationsCOCconstituent of concernEcologyWashington State Department of EcologyEnCoEnCo Environmental CorporationFarallonFarallon Consulting, L.L.C.FFSFocused Feasibility Studymg/kgmilligrams per kilogram
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FFSFocused Feasibility Studymg/kgmilligrams per kilogram
mg/kg milligrams per kilogram
μg/l micrograms per liter
MTCA Washington State Model Toxics Control Act Cleanup Regulation
NFA No Further Action
PQL practical quantitation limit
RCW Revised Code of Washington
RI Remedial Investigation
Saybr Saybr Contractors, Inc.
Site areas of the property at 2310 East 11 <sup>th</sup> Street in Tacoma, Washington, and adjacent areas, where concentrations of lead exceeding the cleanup levels defined in the Washington State Model Toxics Control Act Cleanup Regulation have come to be located
Sound Battery Sound Battery Company
TEE Terrestrial Ecological Evaluation
VCP Voluntary Cleanup Program
WAC Washington Administrative Code
XRF x-ray fluorescence



## **1.0 INTRODUCTION**

Farallon Consulting, L.L.C. (Farallon) has prepared this Closure Report for the Sound Battery Company (Sound Battery) to document the permanent cleanup action completed for the area that includes the property at 2310 East 11<sup>th</sup> Street in Tacoma, Washington and adjacent areas (herein referred to as the Site) (Figure 1). The Site is defined as the areas where concentrations of lead exceeding the cleanup levels defined in the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), as established in Chapter 173-340 of the Washington Administrative Code (WAC 173-340), have come to be located. The cleanup action has met the requirements under MTCA for a No Further Action (NFA) determination. Farallon requests that the Washington State Department of Ecology (Ecology) issue an NFA determination for the Site.

The cleanup action was conducted as an independent remedial action under the Ecology Voluntary Cleanup Program (VCP) in accordance with the requirements of MTCA, and meets the substantive requirements of an Ecology-conducted or -supervised remedial action for the Site. The Site is enrolled in the VCP program and has been assigned VCP Site Identification No. SW1208.

Soil with concentrations of lead exceeding MTCA Method A cleanup levels was excavated from the area surrounding the building footprint in 2002 under terms of Agreed Order No. DE 01TCPSR-3130 entered into by Sound Battery and Ecology, and Enforcement Order No. DE97TC-S137. According to the Cleanup Site Details report obtained from the Ecology (2015) Toxics Cleanup Program website, the Site was removed from the Hazardous Sites List, and the Site status was updated to "NFA" on May 21, 2003.

Lead was detected at concentrations exceeding MTCA Method A cleanup levels for industrial land in soil and in one of two reconnaissance groundwater samples collected from localized areas beneath and near-adjacent to the building footprint in 2011 (EnCo Environmental Corporation [EnCo] 2011). According to the Ecology (2015) Cleanup Site Details report, Ecology re-opened the Site on February 21, 2012, and the Site was enrolled in the VCP.

The Remedial Investigation (RI)/Focused Feasibility Study (FFS) Report prepared by Farallon (2013) and the Cleanup Action Plan prepared by Farallon (2014) (CAP) detailed the selected cleanup alternative. The RI/FFS Report and the CAP were submitted to Ecology under the VCP in 2014 for review.

The cleanup action described in this Closure Report was completed in February 2015 and included permitted demolition of the building and removal of sections of the floor slab, and excavation and off-Site disposal of approximately 277 tons of soil with concentrations of lead exceeding the MTCA Method A cleanup level for industrial land use. The laboratory analytical results for confirmation soil samples collected from the bottom and sidewalls of the final cleanup action excavation limits and from locations sampled prior to the final cleanup action confirm that soil with concentrations of lead exceeding the MTCA Method A cleanup level for industrial land use has been excavated and removed from the Site. Remedial activities completed at the Site,



including excavation of contaminated soil, provide a permanent cleanup action that meets the threshold requirements of WAC 173-340-360, including protection of human health and the environment and compliance with cleanup standards and applicable state and federal laws; and provided for compliance monitoring.



### 2.0 ORGANIZATION

This Closure Report has been organized as follows:

- Section 3 includes a description the Site, a summary of local geology and hydrogeology, a summary of previous environmental investigations and a prior cleanup action, and a summary of confirmed source areas.
- Section 4 identifies the cleanup action technical elements, including the medium and constituent of concern; the nature and extent of affected soil; the basis for exclusion from a terrestrial ecological evaluation (TEE); the cleanup standards, which include the cleanup level and point of compliance; and the applicable or relevant and appropriate requirements (ARARs) and permits.
- Section 5 describes the cleanup action, including the objective, technical approach, and cleanup action field activities.
- Section 6 provides a summary of the results from the cleanup action compliance monitoring, and describes the transport and off-Site disposal of contaminated soil.
- Section 7 provides Farallon's conclusions and a request for an NFA determination for the Site.
- Section 8 provides a list of the documents used in preparing this Closure Report.
- Section 9 provides Farallon's standard limitations.



### **3.0 SITE DESCRIPTION AND BACKGROUND**

The following sections include a description of the Site and local geology and hydrogeology, a summary of previous environmental investigations and a prior cleanup action, and a description of confirmed source areas.

#### **3.1** SITE DESCRIPTION

The Site is zoned as part of the Port Maritime and Industrial District defined in the Tacoma Municipal Code and is located in the industrial Port of Tacoma area of the former Commencement Bay tide flats of the City of Tacoma on Puget Sound (Figure 1). The tide flats area was filled beginning in the early 1900s, and currently is used for a range of industrial and commercial purposes. The topography at the Site and near-vicinity is flat, with a slope down of less than 1 percent toward the northwest, and an approximate elevation of 7 feet above mean sea level.

The Site was developed with a combined one- and two-story masonry building containing approximately 6,125 square feet of interior space, with a roofed exterior area at the southeastern end of the building that contained approximately 1,225 square feet, and paved and graveled parking areas. Sound Battery reportedly occupied the building in 1947 for the manufacture of batteries. The building was expanded in two additions as indicated on Figure 2.

Approximately 1,000 square feet of exterior asphalt pavement surrounded the building, for a total of approximately 7,000 square feet of impervious surface. The area behind and southeast of the building and portions of both side yards were unpaved. The building was demolished as part of the 2015 cleanup action to enable sufficient access to excavate contaminated soil. The former building and paved and unpaved areas are shown on Figure 2.

#### **3.2** GEOLOGY AND HYDROGEOLOGY

Land forms within this region compose a system of glacially and fluvially sculpted features. The last glacial event occurred approximately 10,000 to 14,000 years ago, when the terminus of the Vashon Stade began to retreat from as far south as the Olympia area, leaving behind a range of glacial and alluvial recessional outwash features. The mapped soil consists of recent sand, silt, and gravel deposited in stream channels, on flood plains, and on terraces.

Soil observed in borings advanced at the Site by Farallon (2013) consisted of sand with varying silt and gravel content to approximately 10 feet below ground surface (bgs), underlain by sand and silt to the maximum depth investigated of approximately 14 feet bgs. Groundwater was encountered between approximately 6.5 and 7 feet bgs. The groundwater flow direction has been estimated based on measured groundwater elevations in four monitoring wells to be toward the northwest and Commencement Bay (Farallon 2013).



#### **3.3 PREVIOUS INVESTIGATIONS AND CLEANUP ACTION**

Several soil and groundwater investigations were conducted at the Site between 1991 and 2011 to evaluate environmental conditions and characterize the nature and extent of lead in soil and groundwater outside and inside the building footprint. A soil cleanup action was conducted outside the building in 2002. Environmental investigations and prior cleanup work are summarized below.

A cleanup action was conducted by GeoSystems Analysis, Inc. (2002) in 2002 that included excavation of 880 tons of soil containing lead at concentrations exceeding the 250 milligrams per kilogram (mg/kg) MTCA Method A cleanup level for unrestricted land use from around the building and from adjacent areas of the surrounding three land parcels, at a minimum depth of 1.5 feet bgs to a depth of 5.5 feet bgs in some areas (Figure 2). The excavated soil was treated on the Site with a chemical-stabilizing agent and disposed of at the Resource Conservation and Recovery Act-permitted Subtitle D Pierce County Recycling, Composting, and Disposal Landfill operated by Land Recovery, Inc. The excavation topography. Dissolved or total lead was not detected at concentrations exceeding the laboratory reporting limit of 1 microgram per liter ( $\mu g/l$ ) in any of the groundwater samples collected from the four monitoring wells during post-excavation groundwater monitoring (GeoSystems Analysis, Inc. 2002).

According to the Cleanup Site Details report, the Site was removed from the Hazardous Sites List in 2003, and the Site status was updated to "NFA" (Ecology 2015).

Lead was detected at concentrations exceeding the 1,000 mg/kg MTCA Method A cleanup level for industrial land use in soil samples collected (EnCo 2011). Dissolved lead was detected at a concentration exceeding the 15  $\mu$ g/l MTCA Method A cleanup level in one of two reconnaissance groundwater samples collected from beneath the building but not in groundwater samples collected from beneath the building but not in groundwater samples collected from beneath the building but not in groundwater samples collected from the four monitoring wells (EnCo 2011). The results from the EnCo (2011) investigation are summarized in the CAP. According to the Cleanup Site Details report, a Site Discovery/Release Report was received in 2012, and Ecology (2015) re-opened the Site on February 21, 2012 and received a VCP application for the Site on February 24, 2012.

An RI/FFS Report was prepared in accordance with WAC 173-340-350 to collect, develop, and evaluate sufficient subsurface information to select a cleanup action under WAC 173-340-360 through 173-340-390 (Farallon 2013). The analytical results from the RI are summarized in Table 1 and shown on Figure 3.

Lead was detected at concentrations exceeding the MTCA Method A cleanup level for industrial land use in soil samples collected beneath the building to a depth of 6.5 feet bgs, the approximate depth of groundwater. Arsenic, cadmium, chromium, copper, mercury, or zinc were not detected at concentrations exceeding MTCA cleanup levels in soil samples collected.



Groundwater was measured at depths ranging from approximately 6.5 to 7 feet bgs in the seven drilling locations where groundwater was encountered (Farallon 2013). Dissolved lead was detected at concentrations slightly exceeding the MTCA Method A cleanup level in one of two reconnaissance groundwater samples collected by EnCo (2011) from monitoring wells temporarily installed near the outlet end of the abandoned concrete-filled floor drain. Total lead was detected at concentrations exceeding the MTCA Method A cleanup level in both reconnaissance groundwater samples collected by EnCo.

Lead has not been detected at a concentration exceeding the MTCA Method A cleanup level in groundwater samples collected from the four monitoring wells since 1997 (Farallon 2013). Neither total nor dissolved lead was detected at a concentration exceeding the laboratory practical quantification limits (PQLs) in any other groundwater sample collected from the four monitoring wells during the groundwater monitoring event conducted in August 2012 (Farallon 2013).

The RI included analysis of the groundwater samples collected from the four monitoring wells for dissolved concentrations of arsenic, cadmium, chromium, copper, mercury, and zinc. Dissolved arsenic was the only metal detected at a concentration exceeding the laboratory PQL, and was detected only in up-gradient monitoring well MW-2 at a concentration less than the MTCA Method A cleanup level.

The nature and extent of lead in soil and groundwater was delineated by the RI to support evaluation and selection of a cleanup action in the FFS. Technically feasible cleanup alternatives were identified, developed, and evaluated during the FFS to enable selection of a preferred cleanup action in accordance with WAC 173-340-360. Based on the results from the EnCo (2011) investigation and the RI, Farallon (2013) estimated that approximately 350 tons of soil with concentrations of lead exceeding the MTCA Method A cleanup level for industrial land use remained in two areas beneath the building and two small areas outside the northeastern wall of the building.

Technically feasible cleanup alternatives for Site cleanup evaluated in the FFS included: 1) excavation, off-Site stabilization, and off-Site disposal; 2) excavation, on-Site stabilization, and off-Site disposal; and 3) institutional and engineering controls. Cleanup Alternatives 1 and 2 included demolition of the building and appropriate disposal of demolition debris.

All three of the cleanup alternatives were evaluated as part of the FFS in accordance with the requirements of WAC 173-340-350 and the criteria defined in WAC 173-340-360. The FFS included an evaluation of cleanup alternatives to satisfy the following threshold requirements, as specified in WAC 173-340-360(2)(a):

- Protection of human health and the environment;
- Compliance with cleanup standards;
- Compliance with applicable state and federal laws; and



• Provision for compliance monitoring.

The cleanup alternatives were evaluated for other requirements, defined in WAC 173-340-360(2)(b), which included:

- Use of permanent solutions to the maximum extent practicable, including protectiveness, permanence, effectiveness over the long term, management of short-term risks, technical and administrative implementability, consideration of public concerns, and cost; and
- Provision for a reasonable restoration time frame.

Based on the results from the FFS, Cleanup Alternative 2—Excavation, On-Site Stabilization, and Off-Site Disposal was selected as the preferred cleanup alternative for the Site. The FFS evaluation showed that Cleanup Alternative 1—Excavation, Off-Site Stabilization, and Off-Site Disposal provided the same degree of environmental benefit as Cleanup Alternative 2, and was a cost-effective and permanent technically feasible cleanup alternative. The FFS selected Cleanup Alternative 2 as the preferred cleanup alternative based on its cost, which was estimated to be less than the cost for implementing Cleanup Alternative 1. However, following completion of the RI/FFS Report, a less-expensive off-Site Stabilization option was identified. Therefore, Cleanup Alternative 1—Excavation, Off-Site Stabilization, and Off-Site Disposal became the selected cleanup alternative for the Site.

#### **3.4 CONFIRMED SOURCE AREAS**

Lead at concentrations exceeding cleanup levels in shallow soil likely is the result of releases from routine business operations, including battery manufacturing and battery and component storage. The area where concentrations of lead exceeding cleanup levels were detected in deeper soil appeared to be related to a release(s) from the abandoned concrete-filled floor drain beneath the southeast-central portion of the building (Figure 2).



# 4.0 CLEANUP ACTION TECHNICAL ELEMENTS

The technical elements of the cleanup action provided in the CAP are presented in this section, including identification of the medium and constituent of concern (COC), the nature and extent of affected soil, determination of need for a TEE, cleanup standards, and ARARs and permits.

#### 4.1 MEDIUM AND CONSTITUENT OF CONCERN

Lead is the COC and soil is the medium of concern for the Site.

Groundwater is not a medium of concern. Total and/or dissolved lead were detected at concentrations exceeding MTCA Method A cleanup levels in turbid reconnaissance groundwater samples collected during the EnCo (2011) investigation. Total or dissolved lead have not been detected at concentrations exceeding laboratory PQLs in groundwater samples collected from monitoring wells MW-1 through MW-4 by Farallon (2013), with one exception. Total lead was detected at a concentration exceeding the laboratory reporting limit and less than the MTCA Method A cleanup level in one groundwater sample collected from monitoring well MW-1. These results are consistent with those from prior investigations, which showed that lead was not detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from monitoring wells MW-1 through MW-4 (Farallon 2013).

#### 4.2 NATURE AND EXTENT OF LEAD IN SOIL

According to the analytical results for soil samples collected by EnCo (2011) and Farallon (2013), lead was detected at concentrations exceeding the MTCA Method A cleanup level for industrial land use in soil shallower than about 2 feet bgs in three areas described in the RI/FFS Report, shown on Figure 4:

- Remediation Area A—beneath the second addition to the building and covered exterior;
- Remediation Area B—near the center of the first addition to the building; and
- Remediation Area C—outside the northeastern wall of the building.

Lead was detected at concentrations exceeding the MTCA Method A cleanup level for industrial land use in soil approximately 6.5 to 8.5 feet bgs at the approximate depth to groundwater in the areas proximate to the inlet and outlet to the abandoned concrete-filled floor drain.

#### 4.3 TERRESTRIAL ECOLOGICAL EVALUATION

A TEE is required by WAC 173-340-7490 where a hazardous substance has been released to soil. The regulation requires that one of the following actions be taken:

- Documenting a TEE exclusion using the criteria presented in WAC 173-340-7491;
- Conducting a simplified TEE in accordance with WAC 173-340-7492; or



• Conducting a Site-specific TEE in accordance with WAC 173-340-7493.

Based on the criteria for TEE exclusion in WAC 173-340-7491(1)(c)(i), the Site is excluded from a TEE because fewer than 1.5 acres of contiguous undeveloped land are on the Site or within 500 feet of any area of the Site. Therefore, no further consideration of ecological impacts is required under MTCA. The TEE exclusion documentation was provided in the CAP.

#### 4.4 CLEANUP STANDARDS

As defined in WAC 173-340-700, cleanup standards include establishing the cleanup level and the point of compliance for lead in soil at which the cleanup levels will be attained. The cleanup standards for the Site have been established in accordance with WAC 173-340-700 through 173-340-760 to be protective of human health and the environment, and to comply with the ARARs identified for the Site.

The cleanup level is the concentration of lead that protects human health and the environment under specific exposure scenarios. The Site meets the definition of an industrial property under WAC 173-340-200, as the Site and vicinity are zoned by the City of Tacoma as industrial (Port Maritime and Industrial District). Therefore, the 1,000 mg/kg MTCA Method A soil cleanup level for industrial land use, protective of a general industrial land use human direct contact exposure pathway, is the cleanup level for lead in soil.

The point of compliance defines the point where cleanup levels must be attained. Once the cleanup levels have been attained at the defined point of compliance, the Site is no longer considered to be a threat to human health or the environment. Per WAC 173-340-740(6)(b), the point of compliance for the Site is soil throughout the Site.

# 4.5 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS AND PERMITS

WAC 173-340-710 requires that cleanup actions comply with applicable local, state, and federal laws, defined by MTCA to include ARARs.

The following ARARs are considered applicable requirements that encompass the cleanup action framework, including applicable and relevant regulatory guidelines, cleanup standards, waste disposal criteria, and documentation standards:

- The Washington State Model Toxics Control Act, Chapter 70.105D of the Revised Code of Washington (RCW 70.105D);
- MTCA (WAC 173-340);
- Water Quality Standards for Groundwaters of the State of Washington (WAC 173-200);
- The Hazardous Waste Management Act (RCW 70.105);



- Washington State Solid Waste Management Laws and Regulations (RCW 70.95; WAC 173-304 and 173-351);
- Dangerous Waste Regulations (WAC 173-303);
- Accreditation of Environmental Laboratories (WAC 173-50);
- The Occupational Safety and Health Act (Part 1910 of Title 29 of the Code of Federal Regulations [29 CFR 1910] and WAC 296-62);
- The State Environmental Policy Act Checklist (RCW 43.21);
- Maximum Containment Levels, National Primary Drinking Water Regulations (WAC 246-290-310; 46 CFR 141);
- Safety Standards for Construction Work (WAC 296-155);
- Minimum Standards for Construction and Maintenance of Wells (WAC 173-160);
- National Primary and Secondary Air Quality Standards (40 CFR 50);
- Washington State General Requirements for Air Pollution Sources (WAC 173-400); and
- Local permits required by the City of Tacoma.



# 5.0 CLEANUP ACTION

This section presents the objective of the cleanup action and describes the cleanup action completed at the Site.

#### 5.1 OBJECTIVE OF CLEANUP ACTION

The objective of the cleanup action was to remove soil with concentrations of lead exceeding MTCA Method A soil cleanup level for industrial land use in an efficient and cost-effective manner to the maximum extent practicable and in accordance with the ARARs to meet the requirements for a Site-specific NFA determination from Ecology. The cleanup action targeted areas that were not addressed by the 2002 cleanup action.

#### 5.2 DESCRIPTION OF CLEANUP ACTION

Excavation, off-Site stabilization, and disposal of soil at a Subtitle D waste disposal facility was the selected cleanup approach to achieve a Site-specific NFA determination. This cleanup action was selected based on the FFS evaluation performed by Farallon (2013), and satisfies the threshold and other requirements, as specified in WAC 173-340-360(2)(a) and (b).

The sequence of work implemented for the selected cleanup action included:

- Obtaining necessary permits and approvals;
- Implementing erosion-control best management practices and security measures;
- Further characterizing building materials contained in the building, and mitigating and disposing of identified hazardous building materials;
- Demolishing the building and removing the concrete floor slab and asphaltic pavement in the excavation areas and disposing of demolition debris off the Site at appropriate disposal facilities;
- Excavating soil with concentrations of lead exceeding the cleanup level from Areas A, B, and C (Figure 4), transporting the soil off the Site to a permitted facility for stabilization to reduce the mobility of lead, and disposing of stabilized soil at a Subtitle D landfill; and
- Backfilling the excavation areas with clean imported fill.

#### **5.3 CLEANUP ACTION ELEMENTS**

This section describes the elements that were completed for the cleanup action. The cleanup action was described and presented in the CAP in a series of engineering drawings that contained notes and specifications for project preparation, erosion control, demolition, and excavation and backfilling.



#### 5.3.1 Permitting and Site Preparation

The permits required by the City of Tacoma for clearing, grading, and building demolition were obtained by Farallon, remediation contractor Saybr Contractors Inc. of Tacoma, Washington (Saybr), and/or Saybr's demolition subcontractor Rhine Demolition, L.L.C. of Tacoma, Washington in advance of soil excavation. Copies of the Site grading/excavation permit, the demolition permit, and the Puget Sound Clean Air Agency notification of planned demolition are provided in Appendix A. Appendix A includes a City of Tacoma Inspection Report Card documenting compliance with City of Tacoma permitting requirements and City of Tacoma as-built information pertaining to the abandonment of the side sewer formerly servicing the Site.

The boundaries of the property at 2310 East 11<sup>th</sup> Street were surveyed and staked by a Washington-State licensed Land Surveyor. Underground utilities were located and marked by an underground utility locating contractor. Erosion control, security, and traffic control measures were implemented to meet Pierce County and City of Tacoma requirements.

#### 5.3.2 Building Demolition and Pavement Removal

The building and other aboveground structures were demolished in February 2015 to enable excavation of lead-contaminated soil beneath the building. Following building demolition, Farallon manually surveyed and marked the boundaries of the proposed excavation areas on the ground surface. The excavation areas were referenced horizontally to benchmarks that were preserved during the demolition phase.

Concrete floor slab materials and/or asphalt pavement was removed from the targeted excavation areas with a backhoe excavator. Disposal of hazardous building materials, including asbestos-containing materials and lead-based paint, was required as part of the building demolition. Certain categories of demolition debris and pavement were segregated to allow for recycling and disposal in compliance with project permits.

#### 5.3.3 Excavation

Following building demolition and removal of concrete and asphalt flooring and pavement in excavation areas, soil excavations were conducted using backhoe excavators in discrete areas A, B, and C identified in the CAP (Figure 4). Soil excavation activities were conducted on February 17, 18, 24, and 27, 2015. Farallon established a horizontal coordinate grid system at each excavation area to reference and document the excavation boundaries and the performance and confirmation soil sampling as described in the CAP. The horizontal and vertical limits of the actual excavation areas corresponded with the dimensions anticipated and described in the CAP, with minor exceptions. Figure 4 depicts the limits of the actual excavations conducted for the cleanup action and the coordinate grid system used to reference excavation and sample locations.

Groundwater was encountered at a depth of approximately 7.5 feet bgs in the area of the inlet of the abandoned concrete-filled floor drain. As planned based on confirmation sample analytical results, the excavation was terminated at the depth of groundwater at this location. Groundwater dewatering was not required during the cleanup action.



Excavated soil was temporarily stockpiled on a concrete-paved area of the Site and covered with plastic sheeting prior to being transported off the Site for disposal. Excavation areas were backfilled after receipt of analytical results for the confirmation samples confirming that cleanup standards had been achieved.

#### 5.3.4 Backfilling

Site restoration consisted of backfilling the excavations with clean imported backfill materials consisting of:

- Self-compacting pea gravel in the deep excavations at both ends of the abandoned concrete-filled floor drain in Area A;
- A well-graded granular soil material suitable for standard construction use above the water table in Areas A, B, and C, compacted in lifts to meet acceptable compaction; and
- A final layer of crushed surfacing top course, compacted.

Following backfilling and stabilization of the excavation areas, requirements for erosion-control best management practices and security measures were lifted by the City of Tacoma Building Inspector.

#### 5.3.5 Compliance Monitoring

Compliance monitoring was performed in accordance with WAC 173-340-140 and Appendix E of the CAP, and included the following:

- Performance monitoring during the cleanup action to evaluate whether the cleanup action had attained cleanup standards;
- Confirmation monitoring after the cleanup action excavations were completed to confirm that cleanup standards had been attained; and
- Protection monitoring to ensure that human health and the environment were protected during the construction phase of the cleanup action.

#### 5.3.5.1 Performance Monitoring

Farallon conducted cleanup action performance monitoring by screening discrete soil samples collected from the excavation sidewall and floor using a hand-held x-ray florescence (XRF) analyzer, a portable monitoring device capable of quantifying lead concentrations in soil samples. XRF performance monitoring results were used to guide the excavation and assess whether lead remained in soil at concentrations exceeding the cleanup level as the excavations progressed.

Soil with lead detected at concentrations exceeding the cleanup level identified by the XRF screening and in discrete soil samples submitted for analytical testing was excavated and disposed of. Confirmation soil samples were collected from the limits of the



excavations once XRF screening results indicated that the cleanup standards had been met.

#### 5.3.5.2 Confirmation Monitoring

Confirmation soil samples were collected after performance monitoring results indicated that the cleanup level had been attained at the limits of the excavations. Confirmation monitoring consisted of collecting discrete in-situ soil samples from the base and sidewalls at the final limits of the completed excavation areas and submitting for laboratory analysis.

If lead was detected at concentrations exceeding the cleanup level in the confirmation monitoring soil samples, additional excavation was conducted in the respective area(s), and the area(s) were re-sampled.

Once laboratory analytical results for the confirmation soil samples confirmed that lead concentrations in in-place soil were less than the cleanup level, the excavations were backfilled with imported material.

#### 5.3.5.3 **Protection Monitoring and Health and Safety**

In compliance with requirements established in WAC 173-340-820, the Occupational Safety and Health Act of 1970, and the Washington Industrial Safety and Health Act (RCW 49.17), Site-specific Health and Safety Plans that included protection measures and monitoring (e.g., wetting soil for dust control, periodic observations for visible dust) to minimize potential short-term exposure during cleanup activities were prepared to protect field personnel during cleanup activities.

Workers performing excavation of potentially contaminated soil and entering the exclusion zone were 40-hour health and safety-trained as hazardous waste operators in accordance with 29 CFR 1910.120. Level C personal protective equipment was used by all workers within the exclusion zone during periods of active excavation.

Samples of airborne particulates were collected from the worker breathing zone and from the downwind Site boundary on two occasions during the cleanup action to evaluate and document potential worker and off-Site human receptor exposure to airborne lead. Samples of airborne particulates were collected on filters that trapped particulate matter from air pumped at a predetermined flow rate during the work day. Particulate matter captured on the filters was tested for total lead by an analytical laboratory.



# 6.0 CLEANUP ACTION RESULTS

Results from the cleanup action are presented below. Cleanup action objectives were achieved by attaining the cleanup level for lead in soil at the point of compliance for the Site.

#### 6.1 **PERFORMANCE SOIL SAMPLING**

Cleanup action performance monitoring entailed a combination of XRF screening in the field and collection of discrete soil samples submitted for laboratory analytical testing for total lead using U.S. Environmental Protection Agency (EPA) Method 6010C to assess the progress and completeness of excavation. Figure 3 depicts the locations of the discrete performance soil samples. Analytical results from the discrete performance soil sampling are summarized in Table 1. Figure 3 and Table 1 also show results from soil sampling conducted during the RI; Figure 3 includes results from RI groundwater sampling.

#### 6.2 CONFIRMATION SOIL SAMPLING

Confirmation soil samples consisted of discrete samples collected from excavation sidewalls and bottoms and tested at an analytical laboratory using EPA Method 6010C. If lead was detected at a concentration exceeding the cleanup level in the confirmation soil samples, the excavation was widened and/or deepened to remove additional soil represented by those analytical results. This process thereby reclassified those "failed" confirmation soil samples as performance samples. After the additional wider and/or deeper excavation was conducted, additional confirmation soil samples were collected and analyzed. A total of six "failed" confirmation soil samples are listed in Table 1 as performance samples. Soil represented by these six samples was excavated during the cleanup action.

A total of 31 confirmation soil samples were collected and submitted to the analytical laboratory. By definition, analytical results for the confirmation soil samples represent soil that remains in-place following the cleanup action. Figure 4 depicts the locations of the confirmation soil samples. Confirmation soil sample analytical results are summarized in Table 2. Concentrations of lead detected in all of the confirmation soil sample were less than the soil cleanup level.

Copies of the laboratory analytical reports for the confirmation soil samples are provided in Appendix B. Analytical results for confirmation samples collected in the individual excavation areas are discussed below.

#### 6.2.1 Second Addition Excavation Area (Area A)

A total of 17 confirmation soil samples were collected from excavation sidewall and bottom soil within Area A (Figure 4). Area A was divided into six approximately 20- by 20-foot grid cells and four smaller grid cells. Two of the smaller cells encompass the inlet and outlet areas of the abandoned concrete-filled drain, discussed in the following section. Confirmation samples from the excavation grid cell bottom and sidewalls were submitted to an analytical laboratory for



analysis for total lead. Lead was detected at concentrations up to 470 mg/kg in confirmation soil samples collected in Area A. The highest concentration of total lead of 470 mg/kg was detected in a soil sample collected from the southeastern sidewall of the excavation in grid area AA1. The completed depths of excavation in Area A ranged from 1 foot bgs in grid areas AA1 and AA2 to 3 feet bgs in grid area A1.

# 6.2.2 Abandoned Concrete-Filled Floor Drain Inlet and Outlet Excavation Areas (Area A, Sub-Areas TP1 and TP2)

Two confirmation soil samples representing in-place excavation sidewall and bottom soil were collected from the area of the inlet to the abandoned concrete-filled floor drain and analyzed (Area A, Sub-Area TP1, Figure 4). Two confirmation soil samples representing in-place excavation sidewall and bottom soil also were collected from the area of the outlet of the abandoned concrete-filled floor drain and analyzed (Area A, Sub-Area TP2, Figure 4).

Lead was detected at concentrations up to 9.9 mg/kg in confirmation soil samples collected from the area of the inlet of the abandoned concrete-filled floor drain and at concentrations ranging from 28 to 400 mg/kg in confirmation soil samples collected from the area of the outlet of the abandoned concrete-filled floor drain, less than cleanup levels. The former inlet and outlet areas were excavated to depths of 7.5 and 2 feet bgs, respectively.

#### 6.2.3 First Addition Excavation Area (Area B)

Five confirmation soil samples representing in-place excavation sidewall and bottom soil were collected from within Area B (Figure 4). Lead was detected at concentrations ranging from 39 to 610 mg/kg in confirmation soil samples collected from Area B, less than the cleanup level. The highest total lead concentration of 610 mg/kg was detected in the sample collected from the southeastern sidewall of the excavation at a depth of about 0.75 foot bgs. Excavation in Area B was conducted to a depth of 1.5 feet bgs.

#### 6.2.4 Outside Building Footprint Excavation Area (Area C)

Five confirmation soil samples representing in-place excavation sidewall and bottom soil were collected from within Area C (Figure 4). Lead was detected at concentrations up to 710 mg/kg in confirmation soil samples collected from Area C, less than the cleanup level. The highest total lead concentration of 710 mg/kg was detected in the sample collected from the southeastern sidewall of the excavation at a depth of about 0.5 foot bgs. Excavation in Area C was conducted to a depth of 1.5 feet bgs.

#### 6.3 **PROTECTION MONITORING**

Table 3 provides a summary of the airborne particulate sample analytical results. Lead was not detected at or exceeding the analytical method reporting limit on any of the four particulate filters tested. Results from testing of the particulate filter samples indicate that regulatory standards for worker protection were not exceeded during the cleanup action.



#### 6.4 SOIL TRANSPORT, STABILIZATION, AND DISPOSAL

After excavation, soil was temporarily stockpiled on the Site and covered. Based on the results from soil sample analyses, waste profiling, and trial batch stabilizations, soil from the cleanup action was accepted for stabilization and subsequent disposal at the Waste Management Chemical Waste Management Subtitle D landfill in Arlington, Oregon.

A total of nine truckloads of excavated soil was transported off the Site on February 18, 24, and 27 and March 3, 2015. A total of 277 tons of soil was transported, stabilized, and disposed of. Copies of the waste transportation manifests showing receipt by the Waste Management Chemical Waste Management facility are provided in Appendix C.



# 7.0 CONCLUSIONS AND REQUEST FOR NO FURTHER ACTION DETERMINATION

This Closure Report documents the cleanup action completed at the Site to remove lead-contaminated soil related to historical releases during former battery manufacturing operations on the property at 2310 East 11<sup>th</sup> Street in Tacoma, Washington. The cleanup action was conducted as an independent remedial action under VCP Site Identification No. SW1208 and in accordance with MTCA requirements.

The results from the RI conducted by Farallon and others and results from performance soil sampling conducted during the cleanup action confirmed that lead at concentrations exceeding the cleanup level was present in soil in discrete areas generally below the building's footprint and adjoining the area excavated during the 2002 cleanup action conducted outside the building.

The cleanup action included demolition and removal of the building; and excavation, off-Site stabilization, and disposal of approximately 277 tons of lead-contaminated soil at the Waste Management Chemical Waste Management Subtitle D landfill in Arlington, Oregon.

Laboratory analytical results for confirmation soil samples collected from the final excavation limits confirmed that lead-contaminated soil exceeding the MTCA Method A cleanup level for industrial soil has been excavated and removed, achieving cleanup standards for the Site.

The cleanup action completed at the Site meets the threshold and other requirements defined in WAC 173-340-360(2) for a cleanup action, including protection of human health and the environment, compliance with applicable cleanup standards and state and federal laws, provision for compliance monitoring, and provision of a permanent and final cleanup solution. Based on the results from the completed cleanup action, issuance of an NFA determination for the Site is requested from Ecology.



#### **8.0 REFERENCES**

- EnCo Environmental Corporation (EnCo). 2011. Near Surface Soil & Groundwater Quality Investigation With Hazardous Building Materials Survey (Final Version), Sound Battery, 2310 East 11<sup>th</sup> Street, Tacoma, Washington 98421. Prepared for Marvin Dykman, Puyallup, Washington. September 7.
- Farallon Consulting, L.L.C. (Farallon). 2013. Remedial Investigation and Focused Feasibility Study Report, Sound Battery, 2310 East 11<sup>th</sup> Street, Tacoma, Washington. Prepared for Clark Davis, Davis Law Office, PLLC, Gig Harbor, Washington. November 19.
  - ———. 2014. Cleanup Action Plan, Sound Battery Property, 2310 East 11<sup>th</sup> Street, Tacoma, Washington. Prepared for Marvin Dykman c/o Clark Davis, Davis Law Office, PLLC, Gig Harbor, Washington. July 24.
- GeoSystems Analysis, Inc. 2002. *Final Cleanup Action Report*. Prepared for Sound Battery, Tacoma, Washington. July 22.
- Washington State Department of Ecology (Ecology). 2013. Allied Battery Co Inc Tacoma Site, Integrated Site Information System Site Summary Reporting for Cleanup Site Details. <<u>https://fortress.wa.gov/ecy/tcpwebreporting/TCPSubReport</u> <u>Viewer.aspx?report=/TCPReports/ISIS Web Reporting 2010/PublicReports/CleanupSite</u> <u>Details\_p&subRptsiteID=3646</u>>. (June 27, 2013.)
  - 2015. Washington State Model Toxics Control Act Cleanup Regulation Cleanup Levels and Risk Calculations Database.
     <<u>https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx</u>.> (June 15, 2015.)



### 9.0 LIMITATIONS

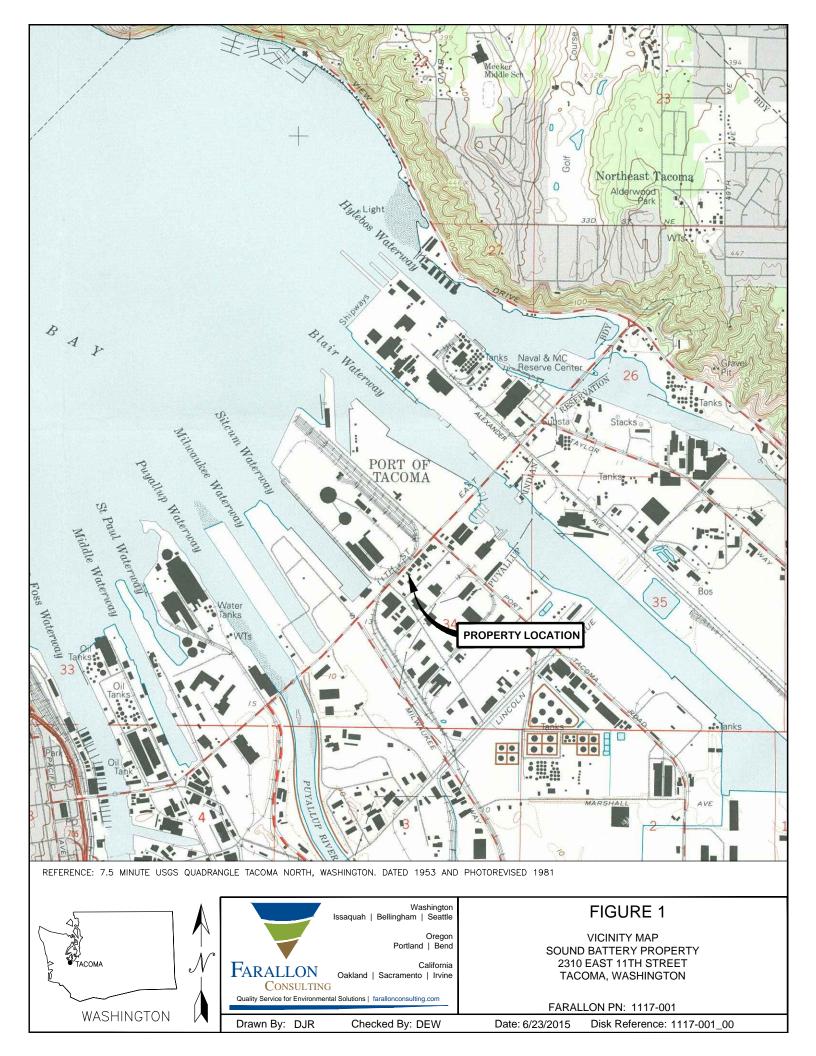
The conclusions and recommendations contained in this report are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location, and are subject to the following limitations.

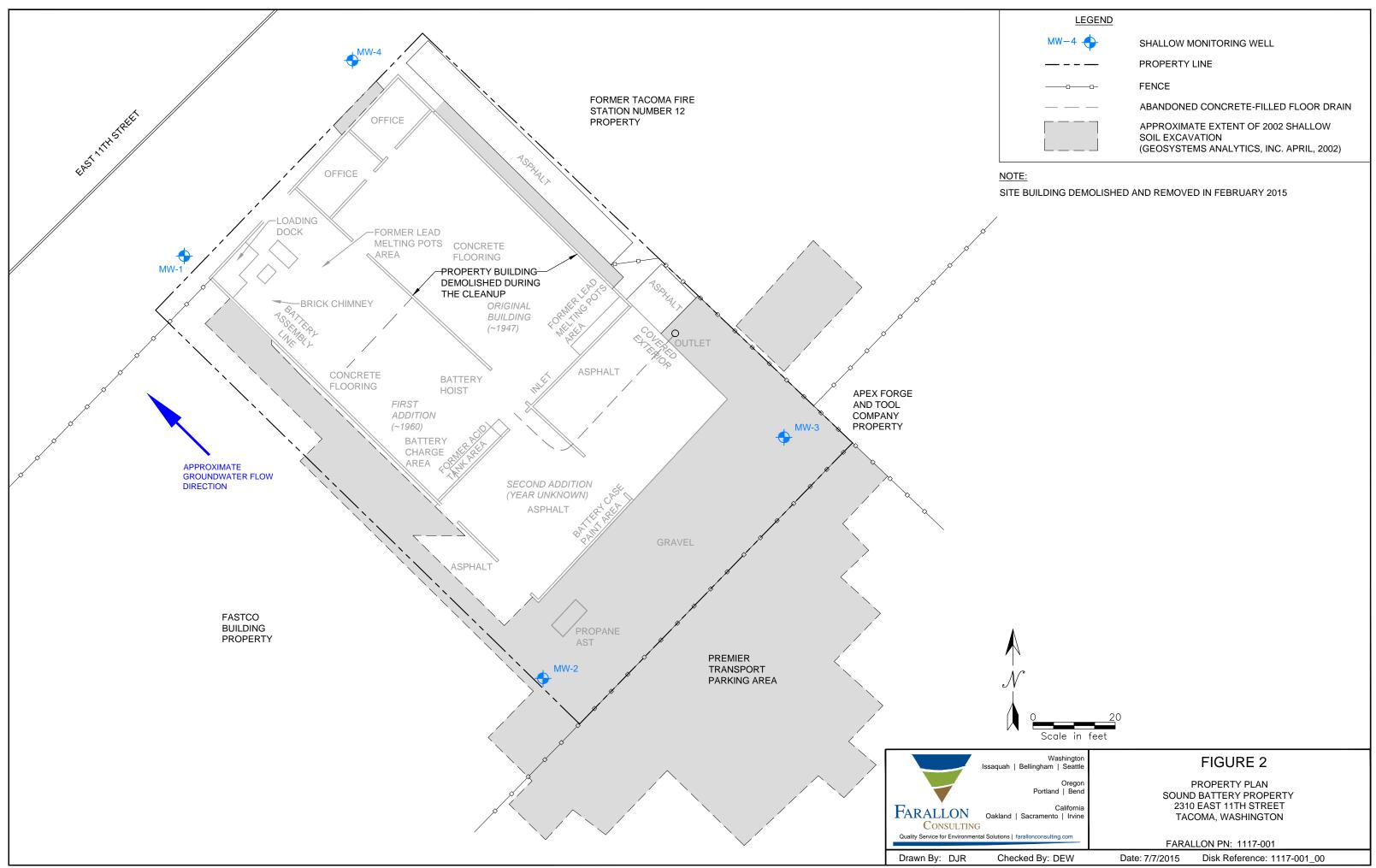
Certain information used by Farallon in this report has been obtained, reviewed, and/or evaluated from various sources believed to be reliable. Although Farallon's conclusions, opinions, and recommendations are based in part on such information, Farallon's services did not include verification of its accuracy or authenticity. Should such information prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

# FIGURES

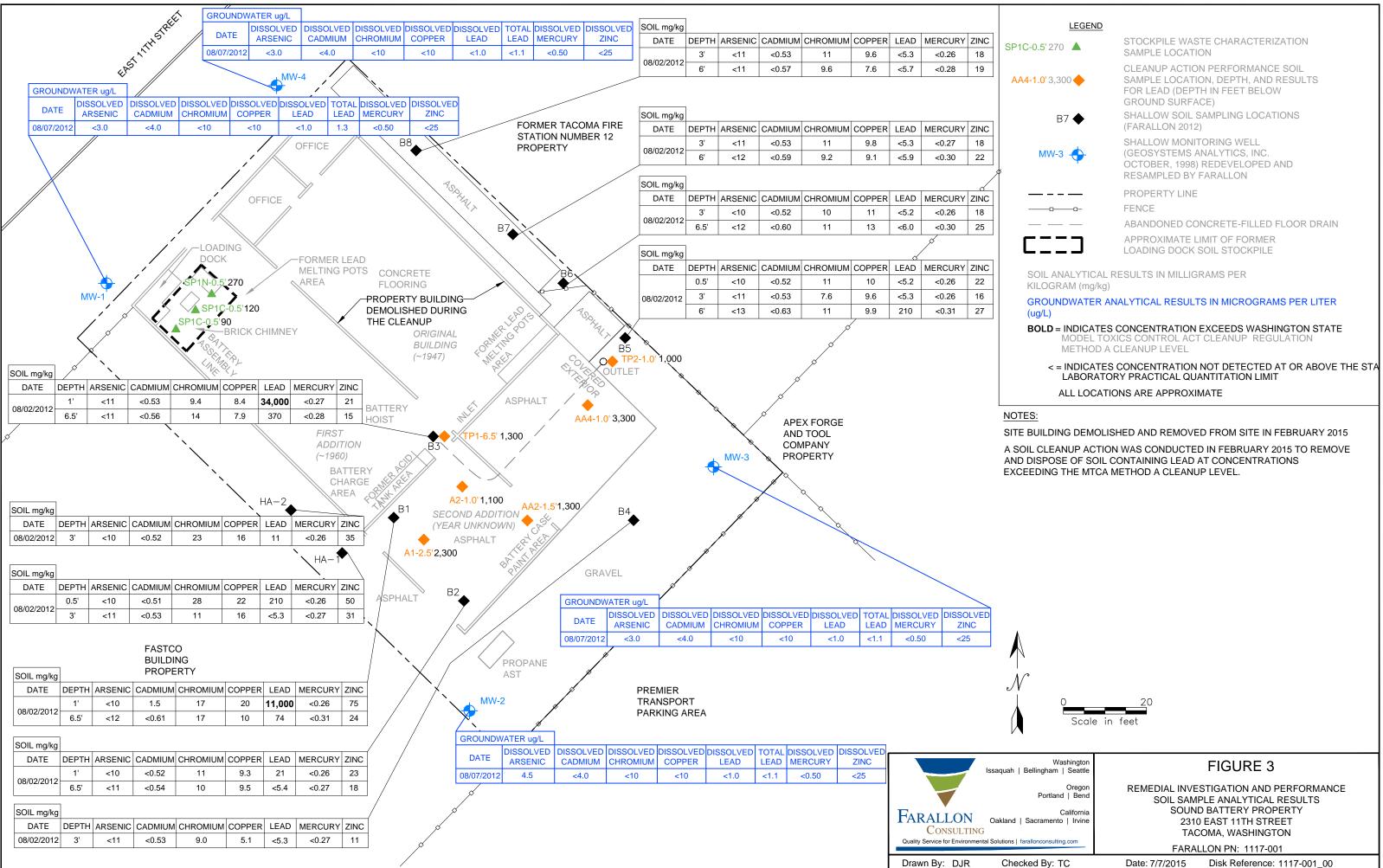
CLOSURE REPORT Sound Battery Property 2310 East 11<sup>th</sup> Street Tacoma, Washington

Farallon PN: 1117-001

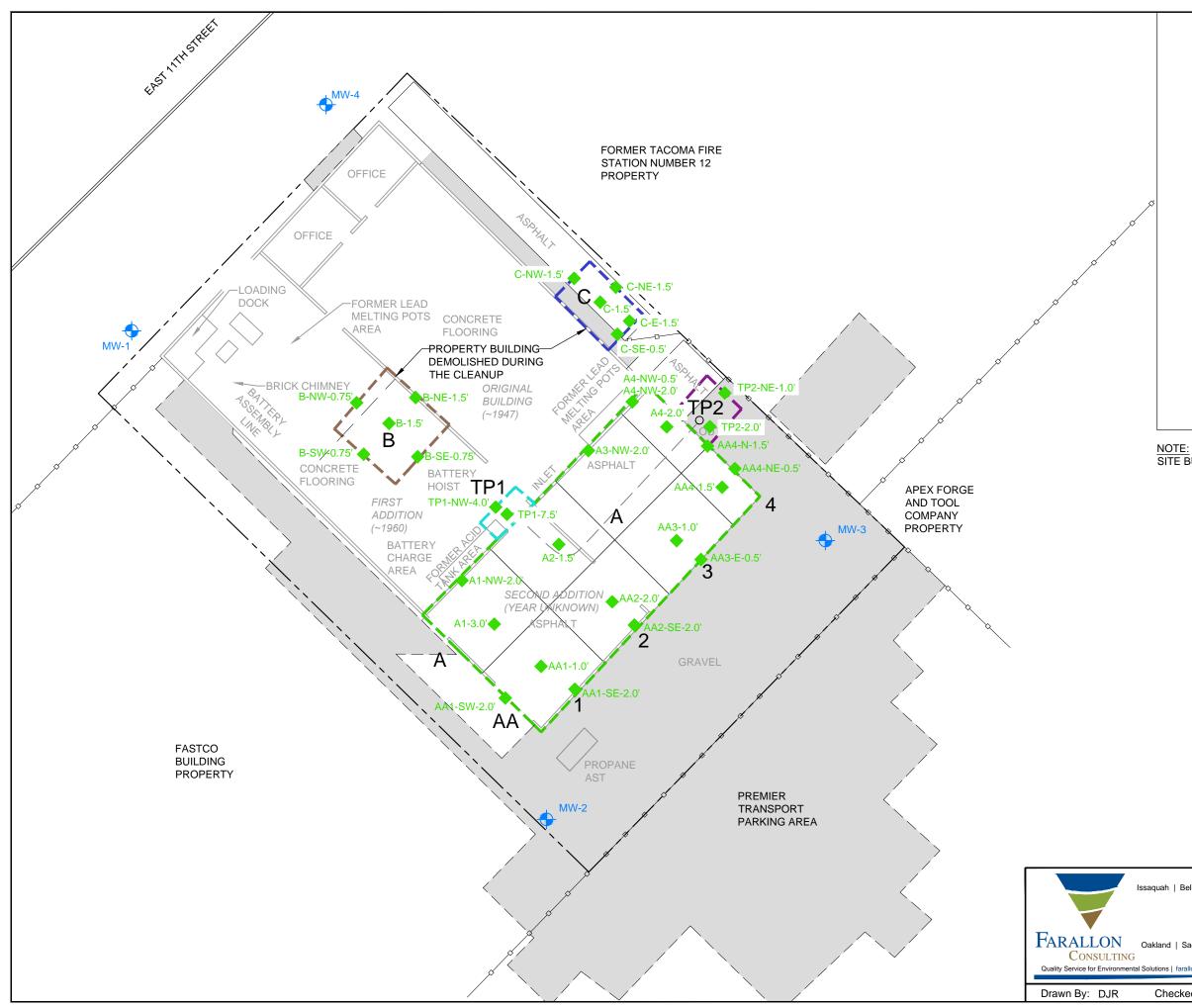




LEGEND	
MW-4 🔶	SHALLOW MONITORING WELL
<u> </u>	PROPERTY LINE
0	FENCE
	ABANDONED CONCRETE-FILLED FLOOR DRAIN
	APPROXIMATE EXTENT OF 2002 SHALLOW SOIL EXCAVATION (GEOSYSTEMS ANALYTICS, INC. APRIL, 2002)

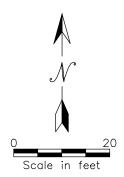


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0 Scale	20 in feet	
Washington   Bellingham   Seattle		FIGURE 3
Oregon Portland   Bend California   Sacramento   Irvine	SOIL SAM SOUN 2310	STIGATION AND PERFORMANCE PLE ANALYTICAL RESULTS D BATTERY PROPERTY ) EAST 11TH STREET
farallonconsulting.com		COMA, WASHINGTON LLON PN: 1117-001
cked By: TC	Date: 7/7/2015	Disk Reference: 1117-001_00



LEGEN	D
	PROPERTY LINE
	FENCE
	ABANDONED CONCRETE-FILLED FLOOR DRAIN
AA4-1'	CONFORMATION SOIL SAMPLING LOCATION
MW-3 🔶	SHALLOW MONITORING WELL
	FORMER FIRST ADDITION AREA APPROXIMATE LATERAL LIMIT OF SOIL EXCAVATION
C220	FORMER SECOND ADDITION AREA APPROXIMATE LATERAL LIMIT OF SOIL EXCAVATION
C220	FORMER DRAIN LINE INLET AREA LATERAL LIMIT OF SOIL EXCAVATION
CIID	FORMER DRAIN LINE OUTLET AREA LATERAL LIMIT OF SOIL EXCAVATION
C220	BEYOND BUILDING FOOTPRINT AREA LIMIT OF SOIL EXCAVATION
	APPROXIMATE EXTENT OF 2002 SHALLOW SOIL EXCAVATION (GEOSYSTEMS ANALYTICS, INC. APRIL, 2002)
A 1	SAMPLING GRID
' ALL	LOCATIONS ARE APPROXIMATE

SITE BUILDING DEMOLISHED AND REMOVED FROM SITE IN FEBRUARY 2015



Washington Bellingham   Seattle	FIGURE 4
Oregon Portland   Bend California   Sacramento   Irvine	FINAL LIMITS OF EXCAVATIONS AND CONFIRMATION SOIL SAMPLE LOCATIONS SOUND BATERY PROPERTY 2310 EAST 11TH STREET TACOMA, WASHINGTON
farallonconsulting.com	FARALLON PN: 1117-001
cked By: TC	Date: 7/7/2015 Disk Reference: 1117-001_00

# TABLES

CLOSURE REPORT Sound Battery Property 2310 East 11<sup>th</sup> Street Tacoma, Washington

Farallon PN: 1117-001

# Table 1 Summary of Remedial Investigation and Performance Soil Sample Analytical Results Sound Battery Property 2310 East 11th Street Tacoma, Washington Farallon PN: 1117-001

			Sample			Analytical Resu	ılts (milligrams	per kilogram, e	except as noted) <sup>6</sup>		
Sample Location	Sample Identification	Sample Date	Depth (feet below ground surface)	Arsenic	Cadmium	Chromium	Copper	Lead	TCLP Lead (milligrams per liter)	Mercury	Zinc
				Remedia	Investigation S	oil Samples					
B-1	B1-1.0	8/2/2012	1	< 10	1.5	17	20	11,000	470	< 0.26	75
D-1	B1-6.5	8/2/2012	6.5	< 12	< 0.61	17	10	74	2.9	< 0.31	24
D 2	B2-1.0	8/2/2012	1	< 10	< 0.52	11	9.3	21	-	< 0.26	23
B-2	B2-6.5	8/2/2012	6.5	< 11	< 0.54	10	9.5	< 5.4	< 0.20	< 0.27	18
D 2	B3-1.0	8/2/2012	1	< 11	< 0.53	9.4	8.4	34,000	230	< 0.27	21
B-3	B3-6.5	8/2/2012	6.5	< 11	< 0.56	14	7.9	370	< 0.20	< 0.28	15
B-4	B4-3.0	8/2/2012	3	< 11	< 0.53	9.0	5.1	< 5.3	-	< 0.27	11
	B5-0.5	8/2/2012	0.5	< 10	< 0.52	11	10	< 5.2	-	< 0.26	22
B-5	B5-3.0	8/2/2012	3	< 11	< 0.53	7.6	9.6	< 5.3	-	< 0.26	16
	B5-6.0	8/2/2012	6	< 13	< 0.63	11	9.9	210	-	< 0.31	27
ĥ	B6-3.0	8/2/2012	3	< 10	< 0.52	10	11	< 5.2	-	< 0.26	18
B-6	B6-6.5	8/2/2012	6.5	< 12	< 0.60	11	13	< 6.0	-	< 0.30	25
B-7	B7-3.0	8/2/2012	3	< 11	< 0.53	11	9.8	< 5.3	-	< 0.27	18
B-/	B7-6.0	8/2/2012	6	< 12	< 0.59	9.2	9.1	< 5.9	-	< 0.30	22
D O	B8-3.0	8/2/2012	3	< 11	< 0.53	11	9.6	< 5.3	-	< 0.26	18
B-8	B8-6.0	8/2/2012	6	< 11	< 0.57	9.6	7.6	< 5.7	-	< 0.28	19
TTA 1	HA-1-0.5	8/2/2012	0.5	< 10	< 0.51	28	22	210	-	< 0.26	50
HA-1	HA-1-3.0	8/2/2012	3	< 11	< 0.53	11	16	< 5.3	-	< 0.27	31
HA-2	HA-2-3.0	8/2/2012	3	< 10	< 0.52	23	16	11	-	< 0.26	35
			•	Cleanup Ac	tion Performance	e Soil Samples		-			
A1	A1-2.5-022415	2/24/2015	2.5	-	-	-	-	2,300	-	-	-
A2	A2-1.0-021815	2/18/2015	1	-	-	-	-	1,100	-	-	-
AA2	AA2-1.5-021815	2/18/2015	1.5	-	-	-	-	1,300	-	-	-
AA4	AA4-1.0-021815	2/18/2015	1	-	-	-	-	3,300	-	-	-
TP1	TP1-6.5-022415	2/24/2015	6.5	-	-	-	-	1,300	-	-	-
TP2	TP2-N-1.0-021815	2/18/2015	1	-	-	-	-	1,000	-	-	-
MTCA Metho	d A Cleanup Levels fo	r Soil <sup>1</sup>		20	2	2000 <sup>2</sup>	3,200 <sup>3</sup>	1,000	5 <sup>4</sup>	2	24,000 <sup>5</sup>

NOTES:

Results in **bold** denote results exceeding applicable screening levels.

Results in italics denote samples that represent soil that has been excavated and disposed of off the Site.

< denotes analyte not detected at or exceeding the reporting limit listed.

- denotes analyte not tested for.

<sup>1</sup>Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Industrial Land Uses, Table

745-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013.

<sup>2</sup> Value provided is for Chromium III. The MTCA Method A soil cleanup level for Chromium VI is 19 milligrams per kilogram.

<sup>3</sup>No MTCA Method A soil cleanup level available. The most stringent cleanup level available in CLARC is 3,200 micrograms per kilogram using MTCA Method B cleanup level for soil (standard formula value for direct contact-ingestion).

<sup>4</sup> MTCA Method A soil cleanup level not applicable. Value indicated is the maximum concentration of contaminants for the toxicity characteristic triggering Dangerous Waste Classification No. D008 for lead per Washington State Dangerous Waste Regulation Section 090(8) of Chapter 173-303 of the Washington Administrative Code, as revised January 2005.

<sup>5</sup>No MTCA Method A soil cleanup level available. The most stringent cleanup level available in CLARC is 24,000 micrograms per kilogram using MTCA Method B cleanup level for soil (standard formula value for direct contact-ingestion).

<sup>6</sup>Analyzed by U.S. Environmental Protection Agency Methods 6010B,C/7471A except for TCLP lead, which was analyzed using U.S. Environmental Protection Agency Method 1311/6010B.

CLARC = Washington State Department of Ecology Cleanup Levels and Risk Calculations Database (https://fortress.wa.gov/ecy/clar/CLARCHome.aspx) queried &/24/2012. TCLP = Toxicity Characteristic Leaching Procedure, Test Method 1311 in U.S. Environmental Protection Agency Publication SW-846.

# Table 2Excavation Confirmation Soil Sample Analytical ResultsSound Battery Property2310 East 11th StreetTacoma, WashingtonFarallon PN: 1117-001

						Analytical Results
Excavation					Sample Depth	
Grid	Sample	Sample		Sample	(feet below	Total Lead
Area	Location	-	Sample Identification	Date	ground surface)	$(mg/kg)^2$
			econd Addition Excava	tion Area (Area	A)	
A1	A1	Bottom	A1-3.0-022715	2/27/2015	3	<5.2
AI	A1-NW	NW Sidewall	A1-NW-2.0-021815	2/18/2015	2	390
A2	A2	Bottom	A2-1.5-022415	2/24/2015	1.5	92
A3	A3-NW	NW Sidewall	A3-NW-2.0-021815	2/18/2015	2	18
	A4-NW	NW Sidewall	A4-NW-0.5-021815	2/18/2015	0.5	5.5
A4	A4-19 W	NW Sidewall	A4-NW-2.0-021815	2/18/2015	2	23
	A4	Bottom	A4-2.0-021815	2/18/2015	2	230
	AA1	Bottom	AA1-1.0-021815	2/18/2015	1	200
AA1	AA1-SE	SE Sidewall	AA1-SE-2.0-021815	2/18/2015	2	470
	AA1-SW	SW Sidewall	AA1-SW-2.0-021815	2/18/2015	2	240
AA2	AA2	Bottom	AA2-2.0-022415	2/24/2015	2	45
AA2	AA2-SE	SE Sidewall	AA2-SE-2.0-021815	2/18/2015	2	380
AA3	AA3	Bottom	AA3-1.0-021815	2/18/2015	1	310
AAJ	AA3-E	E Sidewall	AA3-E-0.5-021815	2/18/2015	0.5	440
	AA4	Bottom	AA4-1.5-022415	2/24/2015	1.5	40
AA4	AA4-N	N Sidewall	AA4-N-1.5-022415	2/24/2015	1.5	110
	AA4-NE	NE Sidewall	AA4-NE-0.5-021815	2/18/2015	0.5	340
			d Outlet Excavation Ar			
TP1	TP1-NW	NW Sidewall	TP1-NW-4.0-022415	2/24/2015	4	9.9
11.1	TP1	Bottom	TP1-7.5-022715	2/27/2015	7.5	<6.8
TP2	TP2-NE	NE Sidewall	TP2-NE-1.0-022415	2/24/2015	1	28
112	TP2	Bottom	TP2-2.0-021815	2/18/2015	2	400
			<b>First Addition Excavat</b>		· · · · · · · · · · · · · · · · · · ·	-
	В	Bottom	B-1.5-021815	2/18/2015	1.5	39
	B-NW	NW Sidewall	B-NW-0.75-021815	2/18/2015	0.75	320
В	B-NE	NE Sidewall	B-NE-1.5-021815	2/18/2015	1.5	77
	B-SE	SE Sidewall	B-SE-0.75-021815	2/18/2015	0.75	610
	B-SW	SW Sidewall	B-SW-0.75-021815	2/18/2015	0.75	240
		-	uilding Footprint Excav			
	C-E	E Sidewall	C-E-1.5-022415	2/24/2015	1.5	93
	C-NE	NE Sidewall	C-NE-1.5-022415	2/24/2015	1.5	300
С	C-NW	NW Sidewall	C-NW-1.5-022415	2/24/2015	1.5	< 5.4
	С	Bottom	C-1.5-022415	2/24/2015	1.5	19
	C-SE	SE Sidewall	C-SE-0.5-021815	2/24/2015	0.5	710
MTCA Method	l A Cleanup Lo	evel for Soil <sup>1</sup>				1,000

NOTES:

Results in **bold** denote sample results exceeding applicable screening level.

< denotes analyte not detected at or exceeding the reporting limit listed.

<sup>1</sup> Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Industrial Land Uses, Table 745-1 of Section 900 of Chapter 173-

340 of the Washington Administrative Code, as revised 2013.

<sup>2</sup>Analyzed by U.S. Environmental Protection Agency Methods 6010B/7471A.

E = east

mg/kg = milligrams per kilogram N = north NE = northeast NW = northwest SE = southeast SW = southwest

# Table 3 Breathing Zone and Property Boundary Air Filter Sample Analytical Results Sound Battery Property 2310 East 11th Street Tacoma, Washington Farallon PN: 1117-001

Sample Location	Sample Identification	Sample Date Breathin	Air Sample Volume (cubic meters) ng Zone	Analytical Results Lead (µg/filter)	Calculated Air-Lead Concentration (µg/m <sup>1</sup> )
VariableBreathing	BZ-021715	2/17/2015	0.232	<10	<43.10
Zone of Work Area	BZ-021815	2/18/2015	0.672	<10	<14.88
		Downwind Prop	perty Boundary		
De la lE se L'es	SOUTH FENCE-021715	2/17/2015	0.232	<10	<43.10
Downwind Fence Line	SOUTH FENCE-021815	2/18/2015	0.670	<10	<14.92
NIOSH Recommended	Exposure Limit Over a Po	eriod of 8 Hours <sup>2</sup>			50
OSHA Permissable Ex	posure Limit Over a Perio	d of 8 Hours <sup>2</sup>			50
EPA Regional Screenin	ng Levels for Residential A	ir <sup>3</sup>			0.15

NOTES:

Results in **bold** denote sample results exceeding applicable screening levels. < denotes analyte not detected at or exceeding the reporting limit listed.

<sup>1</sup> Analyzed by U.S. Environmental Protection Agency Method 6010C.

<sup>2</sup> Centers for Disease Control and Prevention Website

http://www.cdc.gov/niosh/topics/lead/limits.html (May 14, 2015)

<sup>3</sup> U.S. Environmental Protection Agency (Region 3) Regional Screening Level for Residential Air (Total Carcinogenic Risk = 1E-06; Total Noncarcinogenic Hazard Quotient = 1.0) (January 2015).

EPA = U.S. Environmental Protection Agency

 $\mu$ g/filter = micrograms per filter analyzed

 $\mu g/m^3 = micrograms$  per cubic meter

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

# APPENDIX A PERMITTING AND AUTHORIZATIONS

CLOSURE REPORT Sound Battery Property 2310 East 11<sup>th</sup> Street Tacoma, Washington

Farallon PN: 1117-001



#### CITY OF TACOMA Planning and Development Services

747 Market St Tacoma, WA 98402 Inspections: (253) 573-2587

### **BUILDING PERMIT**

PERMIT NO:	40000223991	ISSUED:	07/02/2014	EXPIRES:	12/29/2014
SITE ADDRESS:	/ 2310 E 11TH ST / TACOMA	WA 98421-3303			
PARCEL NO:	PA2275200770				
SUBDIVISION:			LOT & BLO	OCK:	

#### FULL LEGAL DESCRIPTION ON FILE

24 Hour Inspection Line - Call (253) 573-BLUS (2587)

OWNER DYKMAN MARVIN & ( 2310 E 11TH ST TACOMA WA 98421-			CONTRACTOR/SOLD TO PARTY           BP 0400678388         Lic No:           MARVIN W DYKMAN         Exp date:           9223 169TH ST E         PUYALLUP WA 98375           Phone 253-446-0322         Phone 253-446-0322			
PROJECT DESCRIPTIO BLD2014 2310 E 11TI Grade & fill 250 cy for		Battery				
City Contact:	Patricia C	IBC Constr T	ype UBC Constr Type			
Type of Permit: Number of Units: Est value: Type of Work: SWPPP:	Building Commercial 1 \$360,000.00 Grading & Clearing	VВ				
Grading:	250.00					
BUILDING AREA (Sq Number of Floors: Total Floor Area:		).00	Garage/Carport: Storage Bldgs:	0.00		
Attached Garage: Basement:	C	).00 ).00	Other Access Bldg: Miscellaneous:			
Decks: Other Area:		).00 ).00	Tot Acc Bldg Area:	0.00		
Building Info Sprinklers Other Fire Supp. Fire Alarm Zone	Zoning PMI		Building Use UBC IBC	AREA (sq ft) Bidg Type		

CONDITIONS OF APPROVAL

#### PERMIT MUST BE KEPT ON SITE DURING CONSTRUCTION

All plumbing, heating and electrical work will be performed by either the home owner or by a contractor licensed to do same. Separate permits are required for other work, including but not limited to, sanitary and storm sewer, sidewalk, curb and gutter, driveways, parking lot paving, street improvements, plumbing, mechanical, fire protection and signs.

\* Many Wy Signature of Owner/Contractor

THIS PERMIT SHALL BECOME NULL AND VOID IF ANY OF THE ABOVE INFORMATION IS FOUND TO BE INCORRECT

#### GENERAL:

PERMISSION IS HEREBY GIVEN TO DO THE DESCRIBED WORK, AS NOTED ON THE REVERSE SIDE, ACCORDING TO THE CONDITIONS HEREON AND ACCORDING TO THE APPROVED PLANS AND SPECIFICATIONS PERTAINING THERETO, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE CITY OF TACOMA.,

YOUR ATTENTION IS CALLED TO THE FACT THAT IT SHALL BE THE DUTY OF THE PERMITEE (General Contractor) to assure that all necessary inspections are called for and approved by the City Inspectors.

YOUR ATTENTION IS CALLED to the fact that in addition to the called for inspections specified by the applicable codes, the Building Official may make or require any other inspections of any construction work necessary to ascertain compliance with the provisions of City Codes and other laws which are enforced by the City of Tacoma.

YOUR ATTENTION IS CALLED to the fact that in addition to regularly scheduled inspections during construction there shall be a final inspection and approval on all buildings or structures when completed and ready for occupancy. All required off-site improvements (curbs, sidewalks, storm sewers, etc.) must be completed at time a final inspection and prior to occupancy of building. Construction of off-site improvements requires scheduled inspections during construction in addition to the final inspection.

#### SPECIAL PERMITS

The holder of Special Permits agrees to the following stipulations:

- 1. To complete the work encompassed by the Special Permit in accordance with the current edition of the WSDOT/APWA Standard Specifications as amended by the City of Tacoma General Special Provisions and in accordance with any special provisions or conditions set forth before final acceptance as required by the provisions of the Street Obstruction Bond.
- 2. To indemnify and hold the City of Tacoma harmless from any and all damages done to any person or property which may arise from the construction encompassed by the Special Permit.
- To submit for review and approval to the Traffic Engineer a traffic control plan developed in accordance with the "Manual on Uniform 3. Traffic Control Devices" (MUTCD). The traffic control plan shall show pedestrian access through the work zone.
- 4. To protect the public by placing adequate barricades, signs, cones, lights or other traffic control devices in accordance with the approved traffic control plan. It is understood that traffic lane closures and or sidewalk closures are limited to that which is specifically permitted herein. No other closures will be allowed without prior written approval of the City Engineer.
- 5. To provide and maintain protected pedestrian and ADA compliant disability access on walkways at all times.
- The City of Tacoma does not guarantee sewer location or depth information. It shall be the permittee's responsibility to verify sewer and 6. sewer stub locations and depths.
- To restore Rights-of-Way in accordance with the City's Rights-of-Way Restoration Policy and City of Tacoma Standard Plans 7.
- Trench backfill within all improved streets or streets proposed for improvement shall be full depth bank run gravel or approved equal by the Construction Division
- All cuts in arterial streets shall be patched and maintained with Hot Mix Asphalt until permanent repairs are completed. All cuts in 9. residential streets or alleys shall be patched and maintained with cold mix asphalt until permanent repairs are made. Permanent repairs shall be per current City of Tacoma Standard Plans. Streets and alleys shall be permanently repaired within 30 days.
- 10. To be responsible for the preservation of any utilities within the construction area. CALL TOLL FREE BEFORE YOU DIG -1-800-424-5555 (Utilities Underground Location Center)
- 11. 24 Hour notice is required prior to any inspection. Construction Division 253-591-5760, Traffic Signal/Streetlight 253-591-5287.
- 12. The Special Permit Expiration date is 30 days from the issue date unless otherwise noted.

#### **OVERTIME PARKING PERMITS**

- 1. An Overtime Parking Permit is valid only in time zone parking areas within 1 city block of the permit address. All loading zones and special zones are excluded.
- 2. The Overtime Parking Permit must be displayed on the vehicle dashboard on the curbside. The permit must be visible at all times.

#### SPECIAL MOTOR VEHICLE PERMIT

Liability of Permittee: The Special Motor Vehicle Permit is granted with the specific understanding that the permittee shall be responsible and liable for all accidents, damage or injury to any person or property resulting from the operation of the piece of equipment encompassed by the permit upon the public streets of the City of Tacoma. The permittee shall hold blameless and harmless and shall indemnify the City of Tacoma, its officers, agents, and employees against any and all claims, demands, loss, injury, damage, actions and costs of actions whatsoever which they may sustain by reason of the acts, conducts or operations of the permittee encompassed by the Special Motor Vehicle Permit. The permittee shall defend and pay expenses of defending any action and suit which may be commenced by any third person alleging any injury to person or property arising out of the activities encompassed by the Special Motor Vehicle Permit.

EAH
Tacoma

# **BUILDING PERMIT**

PERMIT NO: SITE ADDRESS: PARCEL NO: SUBDIVISION:	40000224918 / 2310 E 11TH ST / T PA2275200770	ACOMA WA	ISSUED: 98421-3303	<b>01/23/201</b>	5 E	XPIRES:	07/22/2015	
FULL LEGAL DESCRIPTIO	ON ON FILE		24 H	our Inspection Line	e - Call (253)	573-BLUS (2	2587)	
OWNER DYKMAN MARVIN & G 2310 E 11TH ST TACOMA WA 98421-3	303		BP RHI 112 TAC	NTRACTOR/SOLD 0400871064 NE DEMOLITION L 24 112TH ST E COMA WA 98445 ne 253-537-5852	LC 5-3798		RHINEDL893BE 01/03/2015	
PROJECT DESCRIPTION BLD2014 2310 E 11TH Demolish Sound Battery	ST							
City Contact: Type of Permit: Number of Units: Est value: Type of Work: SWPPP: Grading:	Patricia C Building Commercial 1 \$109,000.00 Demolition 0.00	IBC Cons V B	tr Type U	BC Constr Type				
BUILDING AREA (Sq fr Number of Floors: Total Floor Area: Attached Garage: Basement: Decks: Other Area:	4,865 0 0 0	.00 .00 .00 .00	S O N	arage/Carport: torage Bldgs: ther Access Bldg: liscellaneous: ot Acc Bldg Area:		0.00 0.00 0.00 0.00 0.00	)   	
Building Info Sprinklers Other Fire Supp. Fire Alarm Zone	Zoning PMI			BC S1	AREA (sq ft 4865.00	) Bidg N/A	Гуре	
CONDITIONS OF APPROV	/AL							

## PERMIT MUST BE KEPT ON SITE DURING CONSTRUCTION

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Х Signature of Owner/Contractor

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# **Inspection Record Card**

City of Tacoma

Planning and Development Services Department

# **INSPECTION PHONE NUMBERS**

<u>NOTICE</u> Post this card and the approved plans conspicuously on the construction site for inspections	Building         Structure, Plumbing & Mechanical         Fire/Sprinkler         Electrical         Site         Right-of-Way and Storm & Sanitary Conveyance         Sanitary OWS/Grease Trap         Stormwater Quality Device/Source Control         Land Use	253-591-5030 253-591-5754 253-502-8277 253-591-5030 253-502-2153 253-502-2162	To check the results of the building and/or site inspections, call the City of Tacoma Permit Services System at 253-591-5030
	Zoning/Landscaping Final	253-591-5577	

DATE ISSUED Tanuary 23	AOIS TO Rhi	ne Demolition	LLC	OwnerContractor
TYPE OF WORK Demolish	Sound Bo	Herry		

# ADDRESS 2310 E 114 ST

Request All That Apply	Inspection Schedule	Date	BY
	Initial Erosion Control (BMP) for clearing and grading		
	Building Footing		
	Building Foundation Walls		
	Plumbing/Mechanical Groundwork		
	Slab (base and insulation)		
	Floor Framing (prior to decking)		
Required Before The	Shear Wall Nailing (before siding)		
<b>Building Framing</b>	Plumbing Rough-In		
Inspection	Mechanical Rough-In (HVAC & exhaust)		
	Gas Piping		
	Electrical Rough-In		
	Water Line Installation		
	Rough-in/Set Storm & Sanitary Device		
	Rough-in/Set Storm & Sanitary Conveyance		
	Erosion Control Maintenance (BMP)		
	Building Framing and Caulking		
	Insulation		
	Drywall		
	Suspended Ceiling (see back of card)		
Required Before The	Plumbing Final		······································
Building Final	Mechanical Final		
Inspection	Electrical Final		
	Storm and Sanitary Device Final		*
	Storm and Sanitary Conveyance Final		······································
	Sidewalk, Curb & Gutter, Driveway		
	Final Erosion Control & Site Stabilization (BMP)		
	Building Final (see back of card)		
WARNING: I	t is unlawful to occupy the premises until all applicable final in SUPPLEMENTAL INSPECTIONS ON THE BACK	rspections have been	n made.

Supplemental Erosion Control Inspections		Commercial Building Inspections That May Apply		
	By / Date		By / Date	
Initial Inspection:		Electrical for Ceiling Cover		
Maintenance Inspection:		Mechanical for Ceiling Cover		
Maintenance Inspection:		Fire/Sprinkler for Ceiling Cover		
Maintenance Inspection:		Building for Ceiling Cover		
Maintenance Inspection:		Fire/Sprinkler FINAL		
Maintenance Inspection:		Water/Backflow FINAL (253-502-8215)		
		Zoning/Landscaping FINAL		
		Boiler <b>FINAL</b> (253-596-3902)		

.

3

Comments\_\_\_\_\_

PERMITS:

Building #	400002249K	Contractor	······
Plumbing #		Contractor	
Heating #	·····	Contractor	 6
Electrical #		Contractor	
Sanitary Sewer #		Contractor	
Sidewalk #		Contractor	



# Notification Case #: 201500236

This page must be printed. A printout of the notification, all amendments to the notification, and the asbestos survey shall be available for inspection at all times at the asbestos project or demolition site (Reg III, 4.03(a)(6)).

Fee Amount Paid	\$65.00		
Credit Card Transaction	# VXJFCC0CF092		
Transaction Date	01/21/15		
Owner's Name	Mr. Marvin Dykman c/o Saybr through Farralon	Phone	(253) 531-2144
Project Street Address	2310 East 11th Street		
City	Tacoma	Zip	98421
Contact Person	Deanna Peters	Phone	(253) 537-5852
Mailing Address 1124	112th St. E.		
Тасо	ma, WA 98445		

This project incl	his project includes a demolition.					
Demolition Start	Demolition Start Date 02/16/15 Completion Date 06/30/15					
Demolition will be completed by a demolition contractor						
Demo Contractor	Rhine Demolition LLC	Contractor Job #	4026			
Contact	Deanna Peters	Phone	(253) 537-5852			
Mailing Address	1124 112th Street E					
	Tacoma, WA 98445					

(1) I certify that the information I have provided is to the best of my knowledge true and accurate.

(2) I understand that I must file an Amendment to this Notification if:

- The type of project has changed. The project types are asbestos and demolition.
- The quantity of friable asbestos to be removed meets a larger project category.
- The project's start or completion date has changed.

(3) I understand one Notification must be filed for each structure. The only exception is for a single-family residence that includes multiple ancillary structures, such as a detached garage or other outbuildings having the same street address. If there is no street address, I have used a building number.

(4) I understand the fees for this Notification are nonrefundable.

# **Create Another Notification**

View History

Log Out

If you have questions, contact us at asbestos@pscleanair.org or 206.689.4058.



# **Inspection Record Card**

City of Tacoma

Planning and Development Services Department

INSPECTION PHONE NUMBERS

### Building

	2 4114118	
	Structure, Plumbing & Mechanical	253-591-5030
	Fire/Sprinkler	253-591-5754
	Electrical	253-502-8277
	Site	
	Right-of-Way and Storm & Sanitary Conveyance	253-591-5030
	Sanitary OWS/Grease Trap	253-502-2153
	Stormwater Quality Device/Source Control	253-502-2162
	Land Use	
	Zoning/Landscaping Final	253-591-5577
5	2015 TO Rhine Demolition	LLC

To check the results of the building and/or site inspections, call the City of Tacoma Permit Services System at 253-591-5030

\_\_\_Owner(Contractor

DATE ISSUED Canacy	23	AOIS TO	Rhine	J
TYPE OF WORK Demolis				

# ADDRESS 2310 E 114 ST

	Initial Erosion Control (BMP) for clearing and grading Building Footing Building Foundation Walls Plumbing/Mechanical Groundwork Slab (base and insulation)		
	Building Foundation Walls Plumbing/Mechanical Groundwork		
	Plumbing/Mechanical Groundwork		
	Slab (base and insulation)		
8			
	Floor Framing (prior to decking)		
Required Before The	Shear Wall Nailing (before siding)		
Building Framing	Plumbing Rough-In		
Inspection	Mechanical Rough-In (HVAC & exhaust)		
	Gas Piping		
	Electrical Rough-In		
	Water Line Installation		
3	Rough-in/Set Storm & Sanitary Device		
-	Rough-in/Set Storm & Sanitary Conveyance		
-	Erosion Control Maintenance (BMP)	2/11/15	MHZ/JC
-	Building Framing and Caulking		
	Insulation		
	Drywall		
	Suspended Ceiling (see back of card)		
Required Before The	Plumbing Final		
Building Final	Mechanical Final		
Inspection	Electrical Final		8
	Storm and Sanitary Device Final		
	Storm and Sanitary Conveyance Final		
	Sidewalk, Curb & Gutter, Driveway		1
	Final Erosion Control & Site Stabilization (BMP)	3/4/15	MHZ
	Building Final (see back of card)	34.15.	
WARNING: It	t is unlawful to occupy the premises until all applicable fi SUPPLEMENTAL INSPECTIONS ON THE B	1.7	een made.

<u>Notice</u>

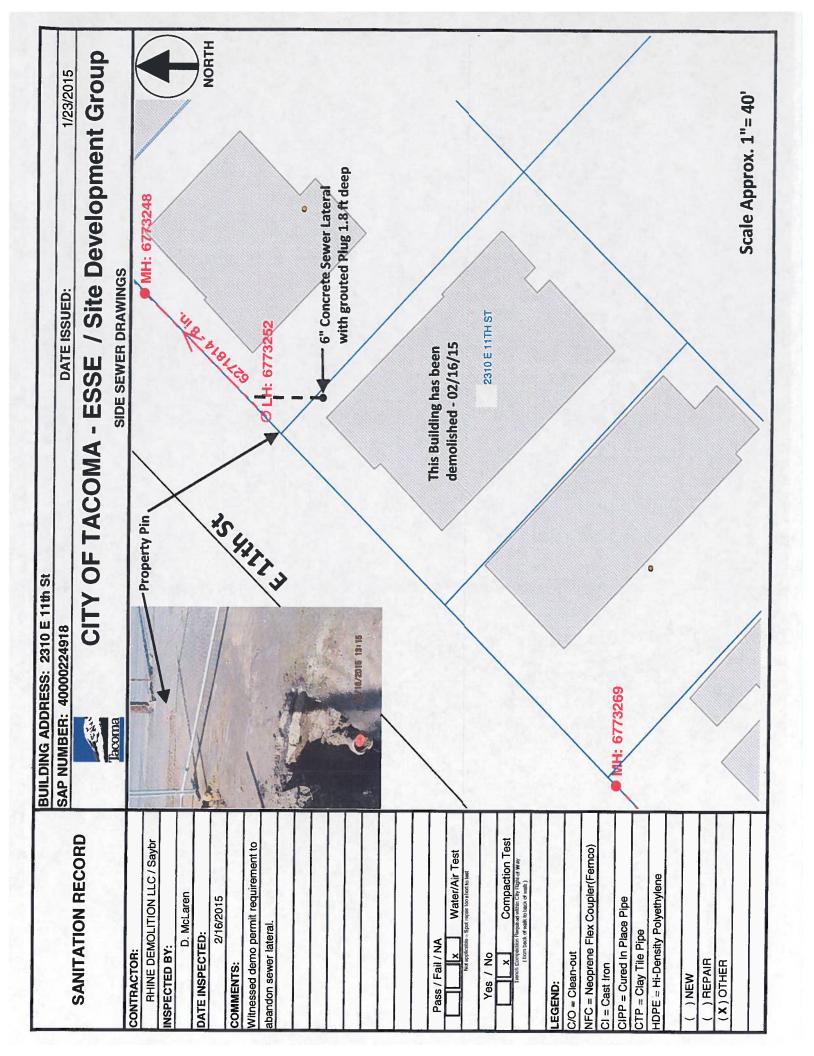
Post this card and the

approved plans

conspicuously on the

construction site for

inspections



# APPENDIX B LABORATORY ANALYTICAL REPORTS

CLOSURE REPORT Sound Battery Property 2310 East 11<sup>th</sup> Street Tacoma, Washington

Farallon PN: 1117-001



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

February 20, 2015

Tad Cline Farallon Consulting, LLC Queen Anne Square East Bldg. 200 West Mercer Street, Suite 302 Seattle, WA 98119

Re: Analytical Data for Project 1117-001 Laboratory Reference No. 1502-169

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on February 19, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

#### **Case Narrative**

Samples were collected on February 17 and 18, 2015 and received by the laboratory on February 18, 2015. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### Total Lead EPA 6010C Analysis

Sample SOUTHFENCE-021815 (02-169-24) was received with water inside the cartridge.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

## TOTAL LEAD – Air Cartridges EPA 6010C

Matrix:	Filter					
Units:	ug/Filter			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	02-169-01					
Client ID:	BZ-021715					
Lead	ND	10	6010C	2-19-15	2-19-15	
	22,422,22					
Lab ID: Client ID:	02-169-02 SOUTH FENCE-021715					
Lead	ND	10	6010C	2-19-15	2-19-15	
	00 400 00					
Lab ID: Client ID:	02-169-23 <b>BZ-021815</b>					
Lead	ND	10	6010C	2-19-15	2-19-15	
Lab ID:	02-169-24					
Client ID:	SOUTH FENCE-021815					
Lead	ND	10	6010C	2-19-15	2-19-15	

3

#### TOTAL LEAD EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted:	2-19-15		
Date Analyzed:	2-19-15		
Matrix:	Filter		
Units:	ug/Filter		
Lab ID:	MB0219WP1		
Analyte	Method	Result	PQL
·			
Lead	6010C	ND	10

#### TOTAL LEAD EPA 6010C SB/SBD QUALITY CONTROL

Date Extracted:	2-19-15
Date Analyzed:	2-19-15

Matrix:	Filter
Units:	ug/Filter

Lab ID: SB0219WP1

	Spike		Percent		Percent		
Analyte	Level	SB	Recovery	SBD	Recovery	RPD	Flags
Lead	500	550	110	544	109	1	

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

#### TOTAL LEAD EPA 6010C

Matrix:	Soil					
Units:	mg/kg (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: <b>Client ID:</b>	02-169-03 <b>AA4-1.0-021815</b>					
Lead	3300	27	6010C	2-20-15	2-20-15	
Lab ID: <b>Client ID:</b>	02-169-04 <b>TP2-2.0-021815</b>					
Lead	400	5.4	6010C	2-20-15	2-20-15	
Lab ID: <b>Client ID:</b>	02-169-05 <b>AA3-1.0-021815</b>					
Lead	310	5.3	6010C	2-20-15	2-20-15	
Lab ID: Client ID:	02-169-06 <b>AA4-NE-0.5-021815</b>					
Lead	340	5.3	6010C	2-20-15	2-20-15	
Lab ID: <b>Client ID:</b>	02-169-07 <b>TP2-N-1.0-021815</b>					
Lead	1000	5.3	6010C	2-20-15	2-20-15	
Lab ID: <b>Client ID:</b>	02-169-08 <b>A4-NW-0.5-021815</b>					
Lead	5.5	5.2	6010C	2-20-15	2-20-15	

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

Matrix: Units:	Soil					
Units.	mg/kg (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	02-169-09 <b>AA3-E-0.5-021815</b>					
Lead	440	5.5	6010C	2-20-15	2-20-15	
Lab ID: Client ID:	02-169-10 <b>AA1-1.0-021815</b>					
Lead	200	5.1	6010C	2-20-15	2-20-15	
Lab ID: Client ID:	02-169-11 <b>AA2-1.5-021815</b>					
Lead	1300	5.2	6010C	2-20-15	2-20-15	
Lab ID: Client ID:	02-169-12 <b>A2-1.0-021815</b>					
Lead	1100	5.2	6010C	2-20-15	2-20-15	
Lab ID: <b>Client ID:</b>	02-169-13 <b>B-1.5-021815</b>					
Lead	39	5.2	6010C	2-20-15	2-20-15	
Lab ID: <u>Client ID:</u> Lead	02-169-14 <b>B-NW-0.75-021815</b> <b>320</b>	5.2	6010C	2-20-15	2-20-15	
LCau	520	0.2	00100	2-20-10	2-20-10	

#### TOTAL LEAD EPA 6010C

Matrix:	Soil					
Units:	mg/kg (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
-						
Lab ID: Client ID:	02-169-15 <b>B-NE-1.5-021815</b>					
Lead	77	5.2	6010C	2-20-15	2-20-15	
Lab ID:	02-169-16					
Client ID:	B-SE-0.75-021815					
Lead	610	5.2	6010C	2-20-15	2-20-15	
Lab ID:	02-169-17					
Client ID:	B-SW-0.75-021815					
Lead	240	5.2	6010C	2-20-15	2-20-15	
Lab ID:	02-169-18					
Client ID:	C-SE-0.5-021815					
Lead	710	5.3	6010C	2-20-15	2-20-15	
Lab ID:	02-169-19					
Client ID:	A4-2.0-021815					
Lead	230	5.3	6010C	2-20-15	2-20-15	
Lab ID:	02-169-20					
Client ID:	AA2-SE-2.0-021815					
Lead	380	5.2	6010C	2-20-15	2-20-15	

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

Matrix:	Soil					
Units:	mg/kg (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	02-169-21					
Client ID:	AA1-SE-2.0-021815					
Lead	470	5.3	6010C	2-20-15	2-20-15	
Lab ID:	02-169-22					
Client ID:	A3-NW-2.0-021815					
Lead	18	5.6	6010C	2-20-15	2-20-15	
Lab ID:	02-169-25					
Client ID:	A4-NW-2.0-021815					
Lead	23	5.4	6010C	2-19-15	2-19-15	
Lab ID:	02-169-26					
Client ID:	AA1-SW-2.0-021815					
Lead	240	5.2	6010C	2-19-15	2-19-15	
Lab ID:	02-169-27					
Client ID:	A1-NW-2.0-021815					
Lead	390	5.1	6010C	2-19-15	2-19-15	

#### TOTAL LEAD EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted:	2-19-15		
Date Analyzed:	2-19-15		
Matrix:	Soil		
Units:	mg/kg (ppm)		
Lab ID:	MB0219SM2		
Analyte	Method	Result	PQL
Lead	6010C	ND	5.0
	00100		0.0

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

#### TOTAL LEAD EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted:	2-20-15		
Date Analyzed:	2-20-15		
Matrix:	Soil		
Units:	mg/kg (ppm)		
Lab ID:	MB0220SM1		
Analyte	Method	Result	PQL
Lead	6010C	ND	5.0
			-

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

#### TOTAL LEAD EPA 6010C DUPLICATE QUALITY CONTROL

Date Extracted:2-19-15Date Analyzed:2-19-15

Matrix:	Soil
Units:	mg/kg (ppm)

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	21.6	14.5	39	5.0	С

#### TOTAL LEAD EPA 6010C DUPLICATE QUALITY CONTROL

Date Extracted:2-20-15Date Analyzed:2-20-15

Matrix:	Soil
Units:	mg/kg (ppm)

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	372	401	8	5.0	

#### TOTAL LEAD EPA 6010C MS/MSD QUALITY CONTROL

Date Extracted:	2-19-15
Date Analyzed:	2-19-15

Matrix:	Soil
Units:	mg/kg (ppm)

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Lead	250	250	91	249	91	0	

#### TOTAL LEAD EPA 6010C MS/MSD QUALITY CONTROL

Date Extracted:	2-20-15
Date Analyzed:	2-20-15

Matrix:	Soil
Units:	mg/kg (ppm)

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Lead	250	616	98	652	112	6	

#### % MOISTURE

Date Analyzed: 2-19-15

Client ID	Lab ID	% Moisture
AA4-1.0-021815	02-169-03	7
TP2-2.0-021815	02-169-04	7
AA3-1.0-021815	02-169-05	5
AA4-NE-0.5-021815	02-169-06	5
TP2-N-1.0-021815	02-169-07	6
A4-NW-0.5-021815	02-169-08	4
AA3-E-0.5-021815	02-169-09	8
AA1-1.0-021815	02-169-10	3
AA2-1.5-021815	02-169-11	4
A2-1.0-021815	02-169-12	5
B-1.5-021815	02-169-13	3
B-NW-0.75-021815	02-169-14	4
B-NE-1.5-021815	02-169-15	5
B-SE-0.75-021815	02-169-16	4
B-SW-0.75-021815	02-169-17	3
C-SE-0.5-021815	02-169-18	6
A4-2.0-021815	02-169-19	6
AA2-SE-2.0-021815	02-169-20	4
AA1-SE-2.0-021815	02-169-21	5
A3-NW-2.0-021815	02-169-22	10
A4-NW-2.0-021815	02-169-25	7
AA1-SW-2.0-021815	02-169-26	4
A1-NW-2.0-021815	02-169-27	3

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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.



#### **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished		10 AA1-1.0-	9 AA3-E-	AH-NW	7 TP2-N-	6 AAH-NE	5 AA3-1.0-	4 + + 2-2.0	3 AA4-1.0-021815	2 SOUTHFENCE	1 BZ-02	Lab ID S	Ryan Ost	Tad (	Project Name	1117 -	Project Number		Analytical L 14648 NE	Enviro
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Reviewed/Date					8	tavallo	Company	1155	1042	1036	1035	1030	1028	1026	020	1442	INHO /	Time Sampled	(other)		Standard (7 Days) (TPH analysis 5 Days)			(Check One)	Turnaround Request (in working days)	Chai
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Chromatograms with final report							<b>Comments/Special Instructions</b>											PCBs I		ne Pest	cides 80	)81B			0	
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					2.19.15 7:	2/19/15 0750	Date Time				· · · · · · · · · · · · · · · · · · ·							NWTPI NWTPI NWTPI NWTPI	H-HCII H-Gx/E H-Gx H-Dx	BTEX					Laboratory Number:	of Custody
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February 25, 2015

Tad Cline Farallon Consulting, LLC Queen Anne Square East Bldg. 200 West Mercer Street, Suite 302 Seattle, WA 98119

Re: Analytical Data for Project 1117-001 Laboratory Reference No. 1502-210

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on February 24, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

#### **Case Narrative**

Samples were collected on February 24, 2015 and received by the laboratory on February 24, 2015. They were maintained at the laboratory at a temperature of  $2^{\circ}$ C to  $6^{\circ}$ C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### Total Lead EPA 6010C Analysis

The duplicate RPD for Lead is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Matrix:	Soil					
Units:	mg/kg (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	02-210-01 <b>C-E-1.5-022415</b>					
Lead	93	5.3	6010C	2-25-15	2-25-15	
Lab ID: Client ID:	02-210-02 <b>C-NE-1.5-022415</b>					
Lead	300	5.3	6010C	2-25-15	2-25-15	
Lab ID: <b>Client ID:</b>	02-210-03 <b>C-NW-1.5-022415</b>					
Lead	ND	5.4	6010C	2-25-15	2-25-15	
Lab ID: <b>Client ID:</b>	02-210-04 <b>C-1.5-022415</b>					
Lead	19	5.4	6010C	2-25-15	2-25-15	
Lab ID: Client ID:	02-210-05 <b>A2-1.5-022415</b>					
Lead	92	5.2	6010C	2-25-15	2-25-15	
Lab ID: Client ID:	02-210-06 <b>A1-2.5-022415</b>					
Lead	2300	5.2	6010C	2-25-15	2-25-15	

Matrix:	Soil					
Units:	mg/kg (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	00.040.07					
Client ID:	02-210-07 SP1-N-0.5-022415					
Lead	270	5.3	6010C	2-25-15	2-25-15	
Lab ID:	02-210-08					
Client ID:	SP1-C-0.5-022415					
Lead	120	5.3	6010C	2-25-15	2-25-15	
Lab ID:	02-210-09					
Client ID:	SP1-S-0.5-022415					
Lead	90	5.2	6010C	2-25-15	2-25-15	
Lab ID:	02-210-10					
Client ID:	AA2-2.0-022415					
Lead	45	5.3	6010C	2-25-15	2-25-15	
Lab ID:	02-210-11					
Client ID:	AA41.5-022415					
Lead	40	5.2	6010C	2-25-15	2-25-15	
Lab ID:	02-210-12					
Client ID:	AA4-N-1.5-022415					
Lead	110	5.3	6010C	2-25-15	2-25-15	

Matrix: Units:	Soil mg/kg (ppm)					
Units.	mg/kg (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	02-210-13 <b>TP1-NW-4.0-022415</b>					
Lead	9.9	5.4	6010C	2-25-15	2-25-15	
Lab ID: <b>Client ID:</b>	02-210-14 <b>TP1-6.5-022415</b>					
Lead	1300	5.8	6010C	2-25-15	2-25-15	
Lab ID:	02-210-15					
Client ID:	TP2-NE-1.0-022415					
Lead	28	5.4	6010C	2-25-15	2-25-15	

#### TOTAL LEAD EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted:	2-25-15		
Date Analyzed:	2-25-15		
Matrix:	Soil		
Units:	mg/kg (ppm)		
Lab ID:	MB0225SM1		
Analyte	Method	Result	PQL
Lead	6010C	ND	5.0
			-

6

#### TOTAL LEAD EPA 6010C DUPLICATE QUALITY CONTROL

Date Extracted:2-25-15Date Analyzed:2-25-15

Matrix: Soil Units: mg/kg (ppm)

Lab ID: 02-210-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	87.5	68.4	25	5.0	к

#### TOTAL LEAD EPA 6010C MS/MSD QUALITY CONTROL

Date Extracted:	2-25-15
Date Analyzed:	2-25-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 02-210-01

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Lead	250	361	109	394	122	9	

# % MOISTURE

Date Analyzed: 2-24-15

Client ID	Lab ID	% Moisture
C-E-1.5-022415	02-210-01	6
C-NE-1.5-022415	02-210-02	6
C-NW-1.5-022415	02-210-03	7
C-1.5-022415	02-210-04	7
A2-1.5-022415	02-210-05	4
A1-2.5-022415	02-210-06	3
SP1-N-0.5-022415	02-210-07	5
SP1-C-0.5-022415	02-210-08	5
SP1-S-0.5-022415	02-210-09	5
AA2-2.0-022415	02-210-10	6
AA41.5-022415	02-210-11	3
AA4-N-1.5-022415	02-210-12	6
TP1-NW-4.0-022415	02-210-13	7
TP1-6.5-022415	02-210-14	13
TP2-NE-1.0-022415	02-210-15	8



# **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

Reviewed/Date Data Package: Standard	Received	Relinquished	Received	Relinquished	Received	Relinquished Kencher	Signature	10 AA2-2,0-012415	9 501-5-0:5-022415	Sp1-C-0:5-022415	7 501-1-0.5-022415	6 A1-215-022415	5 AZ-115-022415	4 6-1-5-022415	3 C-NW-1.5-022415	2 C-NE-1.5-022415	1 C-E-1,5-022415	Lab ID Sample Identification	Sampled by Kan Lever	TAD CLINE	SOUND BAttery	III7-00(	FARALLON Bried Number		Analytical Laboratory Testing Services	OnSite Environmental Inc
Reviewed/Date     C       Standard     Level III     Level IV     Electronic Data Deliverables (EDDs)					21 5/14/212 28/2)	FARALLON 2/24/15 15	Company Date Time	1 1145 5 1	1120 5 1	1115 5 1	1110 5 1	1040 5 1	1037 5 1	952 5 1	948 5 1	947 5 1	2/24/159455 S 1	NWTP NWTP NWTP NWTP	H-Gx H-Dx es 8260	TEX C	(TPH analysis 5 Days)	2 Days 3 Days	Same Day	(in working days)	I aboratory N	Chain of Custody
es (EDDs)	Rev scot ANALYEICH results	ASAP, E-MAIL Above A	Verbal ANAYtical results	tab chive, Autoren Vinidgen	45 1-day tora & call	45 RUN AII JUNI JAMPIES ON	Comments/Special Instructions											Semivo (with Ic PAHs & PCBs & Organo Organo Chlorin Total F Total N TCLP   HEM ((	Datiles w-leve 3270D// 3082A 3082A achorin phosph ated A A CRA M Metals Dil and the L	8270D/ PAHs) SIM (loo e Pesti orus Pe cid Her letals letals	/SIM w-level) icides 8	081B 8270D/S 8151A	SIM		00-210	Page 1 of 2

Reviewed/Date Data Package: Standard	Received	Relinquished	Received	Relinquished	Received	Relinquished Kandabard	Signature	the hast of the ha		15 TP2-NE-1.0-022415	14 TPI-615-022415	13 TPI-NW-4.0-022415	12 AA4-N-1.5-022415	1) AA4-1.5-022416	Lab ID Sample Identification	Sampled by: Ken & A	TAD CHINE	SOUND BAttery	1117-001	FARALLOS	Phone: (425) 883-3881 • www.onsite-env.com	Analytical Laboratory Testing Services 14648 NE 95th Street   Redmond, WA 98052	OnSite Environmental Inc.
Reviewed/Date       tandard       Level III       Level IV       Electronic Data Deliverables (EDDs)					CONE Statis U	FARALLON 2/24/15 15	Company Date Time			V 1345 5 1	1330 5 1	1325 5 1	1225 5 1	264)151213 S 1	NWTP NWTP NWTP NWTP Volatile	H-Gx H-Dx es 8260	D BTEX		2 Days 3 Days	Same Day	(Check One)	Turnaround Request (in working days) Laboratory Number:	Chain of Custody
Chromatograms with final report					242	545 See connents on prot ( cuc,	2 Comments/Special Instructions			X					Semive (with k PAHs i PCBs Organe Organe Chlorir Total F Total N TCLP HEM (	olatiles w-leve 8270D/ 8082A ochlorir nated A 3CRA N ATCA N Metals oil and	8270D II PAHs SIM (Id ne Pes norus P ccid He Aletals grease		081B 8270D, 8151A			mber: 02-210	Page 2 of 2



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March 2, 2015

Tad Cline Farallon Consulting, LLC Queen Anne Square East Bldg. 200 West Mercer Street, Suite 302 Seattle, WA 98119

Re: Analytical Data for Project 1117-001 Laboratory Reference No. 1502-251

Dear Tad:

Enclosed are the analytical results and associated quality control data for samples submitted on February 27, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

# **Case Narrative**

Samples were collected on February 27, 2015 and received by the laboratory on February 27, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

# TOTAL LEAD EPA 6010C

Matrix: Units:	Soil mg/kg (ppm)					
	5 5 (i 1 )			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	02-251-01					
Client ID:	A1-3.0-022715					
Lead	ND	5.2	6010C	2-27-15	2-27-15	
Lab ID:	02-251-02					
Client ID:	TP1-7.5-022715					
Lead	ND	6.8	6010C	2-27-15	2-27-15	

# TOTAL LEAD EPA 6010C METHOD BLANK QUALITY CONTROL

Date Extracted:	2-27-15		
Date Analyzed:	2-27-15		
Matrix:	Soil		
Units:	mg/kg (ppm)		
Lab ID:	MB0227SM2		
Analyte	Method	Result	PQL
-			
Lead	6010C	ND	5.0

4

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

# TOTAL LEAD EPA 6010C DUPLICATE QUALITY CONTROL

Date Extracted:2-27-15Date Analyzed:2-27-15

Matrix: Soil Units: mg/kg (ppm)

Lab ID: 02-251-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	5.0	

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

# TOTAL LEAD EPA 6010C MS/MSD QUALITY CONTROL

Date Extracted:	2-27-15
Date Analyzed:	2-27-15

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: 02-251-01

Spike		Percent		Percent		
Level	MS	Recovery	MSD	Recovery	RPD	Flags
250	227	91	228	91	0	
	Level	Level MS	Level MS Recovery	Level MS Recovery MSD	Level MS Recovery MSD Recovery	Level MS Recovery MSD Recovery RPD

# % MOISTURE

Date Analyzed: 2-27-15

Client ID	Lab ID	% Moisture
A1-3.0-022715	02-251-01	4
TP1-7.5-022715	02-251-02	27

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881



# **Data Qualifiers and Abbreviations**

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E The value reported exceeds the quantitation range and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit RPD - Relative Percent Difference

Reviewed/Date	Received	Relinquished	Received	Relinquished	Received	Relinquished	Signature					2 TPI-7,5-0	A 1-3.0-	Lab ID Sample Id	Sampled by:	TAD CLIN	NOB		FARALLO		Analytical Laboratory Testing Services	OnSite
Data Package: Standard					X	en haut	ure					022715	022715 =	Sample Identification	×	m m	Atteny	6	Z	Phone: (425) 883-3881 • www.onsite-env.com	sting Services	OnSite Environmental Inc.
ard Level III Level IV			0		1 02%	FARALLO	Company					2 7460 J	VI	Date Time Sampled Sampled Matrix	(other)		Standard (7 Days) (TPH analysis 5 Days)	2 Days 3 Days	Same Day	(Check One)	Turnaround Request (in working days)	Chain of
Electronic Data Deliverables (EDDs)					Sel shrold s	N 2/27/15 1255	Date Time		(	124		1	2	NWTP NWTP NWTP NWTP Volatile Haloge	H-HCIE H-Gx/E H-Gx H-Dx es 8260 enated	BTEX	s 8260C				Laboratory Number:	Chain of Custody
Chromatograms with final report	resuts.	E-MAIL Kon 5	ANALYtizat ve	Addrew Vivia	Stor + cri	RUN SAMPLE	Comments/Special Instructions							PAHs PCBs Organo Organo Chlorir Total F	8270D/ 8082A ochlorir	ne Pest norus Pe cid Her letals	w-level) cides 8(	081B 8270D/S	SIM			
		wat ANAIRticaf	sults as markage	Jy (w verb Af	1 TAG CLINE,	SON I-DAY						X	X	TCLP HEM (	Metals oil and	grease	1664A				02-271	Pageof

# APPENDIX C WASTE DISPOSAL DOCUMENTATION

CLOSURE REPORT Sound Battery Property 2310 East 11<sup>th</sup> Street Tacoma, Washington

Farallon PN: 1117-001



Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number:
1. Generator Name:       1. Billing Name:         2. Site Address:       2. Billing Address:         (City, State, ZIP)       2. Billing Address:         3. County:       3. Contact Name:         4. Contact Name:       4. Email:         5. Email:       5. Phone:       6. Fax:         6. Phone:       7. Fax:       7. WM Hauled?         8. Generator EPA ID:       In N/A       8. P.O. Number:
2. Site Address:       2. Billing Address:         (City, State, ZIP)       (City, State, ZIP)         3. County:       3. Contact Name:         4. Contact Name:       4. Email:         5. Email:       5. Phone:       6. Fax:         6. Phone:       7. Fax:       7. WM Hauled?       Yes         8. Generator EPA ID:       0. N/A       8. P.O. Number:       0. Number:
(City, State, ZIP)       (City, State, ZIP)         3. County:       3. Contact Name:         4. Contact Name:       4. Email:         5. Email:       5. Phone:         6. Phone:       7. Fax:         9. Generator EPA ID:       7. Fax:         10. N/A       8. P.O. Number:
3. County:       3. Contact Name:         4. Contact Name:       4. Email:         5. Email:       5. Phone:       6. Fax:         6. Phone:       7. Fax:       7. WM Hauled?       Image: Yes         8. Generator EPA ID:       Image: N/A       8. P.O. Number:       Image: Yes
4. Contact Name:       4. Email:         5. Email:       5. Phone:         6. Phone:       7. Fax:         8. Generator EPA ID:       Image: N/A
5. Email:       5. Phone:       6. Fax:         6. Phone:       7. Fax:       7. WM Hauled?       9. Yes         8. Generator EPA ID:       N/A       8. P.O. Number:       9. Number:
6. Phone:7. Fax:7. WM Hauled?       □ Yes         8. Generator EPA ID:0 N/A       8. P.O. Number:
8. Generator EPA ID: 🛛 N/A 8. P.O. Number:
9. State ID: 🛛 N/A 9. Payment Method: 🖵 Credit Account 🖵 Cash 🖵 Credit Ca
C. MATERIAL INFORMATION D. REGULATORY INFORMATION
1. Common Name:   1. EPA Hazardous Waste?   I Yes*
Describe Process Generating Material:  See Attached Code:
2. State Hazardous Waste?
Code:
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?
2. Material Composition and Contaminants:
5. From an industry regulated under Benzene NESHAP?
1.     6. Facility remediation subject to 40 CFR 63 GGGGG?     T Yes*       2.     7. CFR 61 A CFR 63 GGGGG?     T Yes*
3. /. CERCLA or State-mandated clean-up? U Yes*
8. NRC or State-regulated radioactive or NORM waste? U Yes*
Total composition must be equal to or greater than 100% ≥100% *If Yes, see Addendum (page 2) for additional questions and s
3. State Waste Codes: $\square N/A = 9$ . Contains PCBs? $\rightarrow$ If Yes, answer a, b and c. $\square$ Yes
a. Regulated by 40 CFR /61?
5. Physical State at 70°E: D Solid, D Liquid, D Other:
C. Free Liquid Dance Demonstrates to the DNA
7. pH:to     Indext N/A     Medical/Infectious Waste?     Interview       8. Strong Odor:     Image: Yes     Image: No     Describe:     Image: Yes     Image: Yes
9. Flash Point: $\Box < 140^{\circ}F \Box 140^{\circ}-199^{\circ}F \Box \ge 200^{\circ} \Box N/A$ $\rightarrow$ If Yes: $\Box$ Non-Friable $\Box$ Non-Friable $-$ Regulated $\Box$ I
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION F. SHIPPING AND DOT INFORMATION
1. Analytical attachedImage: Yes1. Image: One-Time EventImage: Repeat Event/Ongoing Business
Please identify applicable samples and/or lab reports:       2. Estimated Quantity/Unit of Measure:
Tons 🛛 Yards 🖓 Drums 🖓 Gallons 🖓 Other:
3. Container Type and Size:
4. USDOT Proper Shipping Name:
2. Other information attached (such as MSDS)?

### G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Gene Generator that information contained in this	•
Name (Print):	Date:
Title:	

Certifi	cation Signature –	
amoforus	Vining	

Company: \_\_\_\_



# Hazardous WAM Approval

\_\_\_\_\_ Profile Renewal: 🗹 Yes 🗖 No

Requested Management Facility: Chemical Waste Management (Hazardous Waste Facility)

Profile Number: <u>OR324297</u> Waste Approval Expiration Date: <u>02/11/2016</u>

### **APPROVAL DETAILS**

Hazardous Classification: <u>RCRA Hazardous</u>

Management Method: Stabilization

Generator Name: Sound Battery

Material Name: <u>STAB04 Lead impacted soil</u>

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

### Generator Conditions

- Please indicate on the manifest if CD is required.
- Signed RCRA Soil LDR Form Box A.1 required.
- Must be scheduled (call 541-454-3220)
- UHC cert required
- Waste cannot be subject to Subpart CC controls
- Must meet applicable OSHA, DOT packaging, labeling, shipping and manifesting requirements per 49 CFR

## Facility Conditions

- Please indicate on the manifest if CD is required.
- Signed RCRA Soil LDR Form Box A.1 required.
- Must be scheduled (call 541-454-3220)
- UHC cert required
- Waste cannot be subject to Subpart CC controls
- Must meet applicable OSHA, DOT packaging, labeling, shipping and manifesting requirements per 49 CFR

WM Authorization Name: Kristin Castner	Title: Waste Approval Man	ager
WM Authorization Signature:		Date: <u>02/11/2015</u>
Agency Authorization (if Required):		Date:

Last Revised April 11, 2014 ©2014 Waste Management



# EZ Profile™ Addendum

Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: \_\_\_\_

# **C. MATERIAL INFORMATION**

Describe Process Generating Material (Continued from page 1):

If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1):

If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
Total composition must be equal to or greater than 1009	6 ≥100%

# D. REGULATORY INFORMATION

# Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

b. Is the material su	ubiect to the Alterna	tive Debris standards	(40 CFR 268.45)?				🛛 Yes	🗆 No
	· ·		) CFR 268.49)? → If `	Yes. complete aues	tion 4.			
	•	CC Controls (40 CFR		····, ·····p·····			Yes	
	check <b>one</b> of the fo		,					
		0	inics (40 CFR 264.108	2(c)(2) or (c)(4))				
			R 264.1082(c)(1)) –		update.			
		Il state waste codes: _		- <b>1</b>				
			ndicate the category, b	elow:				
	ous Waste		nder 40 CFR 261.4 →		:			
Treated Hazardo	us Waste Debris		istic Hazardous Waste					
			ng Hazardous Constitu					
Ų		•	efineries, chemical manu HAP questionnaire. If n	0.	oke by-produ	ict recovery	plants, and Yes	
	al contain benzene?		'				🗖 Yes	🗖 No
1. If yes, what is	the flow weighted	average concentration	?					_ ppmw
c. What is your fac	ility's current total a	nnual benzene quantity	y in Megagrams?		🗖 <1 Mg	□ 1-9.99	)Mg □≥	10 Mg
d. Is this waste soil	from a remediation	?					🗖 Yes	🗖 No
1. If yes, what is	the benzene conce	ntration in remediation	waste?			_		_ ppmw
e. Does the waste	contain >10% wate	/moisture?					🗖 Yes	🗖 No
f. Has material bee	n treated to remove	99% of the benzene	or to achieve <10 ppm	w?			🗖 Yes	🗖 No
-		ccordance with 40 CF	R 61.342?				🖵 Yes	🗖 No
h. Based on your k	nowledge of your w	aste and the BWON re	gulations, do you believ	ve that this waste s	tream is sub	ject to		
		at an off-site TSDF?					🗖 Yes	🗖 No
			w VOHAPs at the point				🗖 Yes	
			cord of Decision or othe ability" may be needed					

8. NRC or state regulated radioactive or NORM Waste  $\rightarrow$  Please identify Isotopes and pCi/g: \_\_\_\_

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Please with the light of the li	pewriter.)	-	•	4. Manifes		m Approved. ON	IB No. 2050-
A UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST WAHDOOOD	ипла	3. Emergency Respons	1424-93	$n_0 01$	346	8689	JJK
5. Generator's Name and Mailing Address SOUND BATTERY	G	enerator's Site Adores	s (if different	than mailing addre	hss)	·	
2310 EAST 11TH STREET	ł		•				
Generator's Phone: (253)/148-0322				U.S. EPA ID	Number	، مەربىيە (1990-1990-1990-1990-1990-1990-1990-1990	
R TRANSPORT INC			Later terms and the	1		<u> 140000283</u>	38
7. Transporter 2 Company Name				U.S. EPA ID I	yumbar		
1782	MICAL WASTE MANAGE 9 CEDAR SPRINGS LAN NGTON OR 97812-9709			U.S. EPAID I		00894523	53
9a. 9b. U.S. DOT Description (including Proper Shipping Name, H HM and Packing Group (if any))	Hazard Class, IO Number,	10, Contain No.	ners Type	11. Total Quantity	12. Unit WI./Vol.	13. Wasle	Codes
	E. SOLID. N.O.S., 9, 111			55,000		nan	
X LEAD IMPACTED SOILS - CLE	ANUP	1	DT	4 <del>5550</del>	P	0008	
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UNIFORM HAZARDOUS     1. Generator ID Number     WASTE MANIFEST     WAHDD0004044     2. Page	e fot 3. Emergency Resp	onsa Phona 10)424-93	00 4. Manifest		8706 JJK
5. Generator's Phone: (253)446-0322	Generalor's Site Add		han mailing addre	59)	
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R TRANSPORT INC 7. Transporter 2 Company Name			U.S. EPAID }	A CONTRACTOR CONTRACTOR	
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8. Designated Facility Name and Site Address CHEMICAL WASTE MAN 17629 CEDAR SPRINGS Facility's Phone: (541)454-2643 ARLINGTON OR 97812-5	LANE	•			RD089452353
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18. Discrepancy 18a. Discrepancy Indication Space Quantity Type	Residue Manifest Referen	ce Number:	Partial Rejec	lion	Full Rejection
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ŀ	F	Facility's Phone: (541)454-2843 ARLING	STON OR 978	312-9709					· · · · · · · · · · · · · · · · · · ·	84 W. W. W.	
		9a. 9b. U.S. DOT Description (including Proper Shipping Name, Haz	ard Class; ID Number,		10. Contai	iners	11. Total	12. Unit			
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		marked and labeled/placarded, and are in all respects in proper cond Exporter, I certify that the contents of this consignment conform to the	lion for transport accord	ling to applicable inter	national and natio	nal governme	intal regulations. If	export ship	ment and I am	) the Prima	ry
		I certify that the waste minimization statement identified in 40 CFR 26	2.27(a) (if I am a large q	wantify generalor) or	b) (if I am a small	quantity genu	arator) is true.		•		
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DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

# WASTE MANAGEMENT

May 28, 2015

Sound Battery 2310 E. 11<sup>th</sup> Street Tacoma, Washington

# **CERTIFICATE OF DISPOSAL**

Waste Management, Inc. dba Chemical Waste Management of the NW has received hazardous lead contaminated soils from Sound Battery, for stabilization and disposal at Chemical Waste Management of the NW.

Dates of Disposed:	2/18-3/3/2015
Profile #:	OR324297
<b>Total Pounds:</b>	554,000
Waste Type:	Hazardous Lead Contaminated Soil

I certify, on behalf of the above listed facility, that the above-described waste was managed in compliance with all applicable laws.

K. Castuer

Kristin Castner Waste Management Waste Approvals Manager – PNW

	Jer -							
	Regional	Dispo	sal	Conto	ainer	#		
(	BR-4125 WASTE SHIPME	-		TRA	u 9	0/512		
-								
	). Waste Generated Site Name and Address:	Owner's Nan	ne:	115	120	Owner's P	hone N	0.:
	Sound Battery 2310 E. 11th St TAcoma, Wa 984 2. Operator's Name and Address:	Farral	an Co	nsulting 1	LC		Ο	
	2310 E. 11th St TAcoma, Wa 984	131		·			U U	
	2. Operator's Name and Address:	1				Operator	s Phone	No.:
	Rhine Demolition, LLC					2.0.2		
G	1124 112th St. East					253-	537	-5853
	Tacoma, Wa     98 445       3. Waste Disposal Site (WDS) Name, Address, and Physical Site	Location:				WDS Phon	e No.:	
E	Regional Disposal Co.					1.00		- F ( 4)
	500 Roosevelt Grade Rd.					1-80	JU-2/5	5-5641
N	Roosevelt, WA 99356							
	4. Responsible Local, State or EPA Agency Name and Address		-	<b>P.S. Clean Ai</b>	-			
E	1904 third Ave, StE 105			904 Third Ave. Juite 105				
	Puget Sound Clean Air Agency 1904 third Ave, StE 105 Seuttle, Wa 96101 5. Description of Waste Materials:		S	eattle, WA 98	101			
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	<ol><li>Special Handling Instructions and Additional Information:</li></ol>							
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	9. OPERATOR'S CERTIFICATION: I hereby declare that the	contents of thi	is consi	gnment are f	ully a	ind accur	ately c	lescribed
	above by proper shipping name and are classified, p condition for transport by highway according to applic	oacked, marke cable internati	ed and	l labeled, an	d are	e in all resp autations	pects	in proper
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N S	1124 1103 St. E Tacoma, Wa 98445 253-537-5853	, Main	1./ 4	MAKA	/	2	18	15
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w	12. Discrepancy Indication Space			C				
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S T								
E	13. Authorized Waste Disposal Site Owner or Operator: Certific	cation of receir	ot of ast	pestos materic		vered by t		hifost '
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Т	Printed/Typed NameVicky Read Signature	9	/			Month	Day	Year
E	TRUX Coordinator	/	.1			2	18	$ \leq $
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# **Regional Disposal** WASTE SHIPMENT RECORD

	1. Waste Generated Site Name and Address:	Owr	er's Name:			Owner's P	hone N	10.:
	Sound Battery 2310 E. 11th St.							
	2310 E. IIT St.							
	Tacoma, Wa 98421 2. Operator's Name and Address:					Operator	6 Dhan	
	2. Operations wantle and Address.					Operator	s Phone	
	Rhine Demolition, LLC 1124 112th St. E.					253-	-53	7-5852
G	<u>Tacoma, Wa</u> 98445 3. Waste Disposal Site (WDS) Name, Address, and					000	000	
		l Physical Site Locati	on:			WDS Phor	ne No.:	
E	Regional Disposal Co.					1-8	00-27	5-5641
	500 Roosevelt Grade Rd. Roosevelt, WA 99356							
N	4. Responsible Local, State or EPA Agency Name	and Address:				1		
				P.S. Clean A				
E				Suite 105				
				Seattle, WA 9				
R	5. Description of Waste Materials: 14 Shestos Abatement			ntainers	7.	Total 6 3	Quantit	· •
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	9. OPERATOR'S CERTIFICATION: I hereby decid	are that the conter	nts of this con	signment are	e fully d	and accur	ately o	described
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E R	2733 3rd Ave. S. Seattle, WA 98101 206-652-8865							
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ST								
T E		· · ·						
S	<ol> <li>Authorized Waste Disposal Site Owner or Oper except as noted in item 12</li> </ol>	34	of receipt of a	sbestos mate	rials co	overed by t	his mar	nifest
T	Printed/Typed Name Vicky Read	Signature	11			Month	Day	Year
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	) 343-1247				OREGON	126 789
(206)	, ) 343-7445 FAX	N⁰	1753 <b>3</b>		WASHINGTON - EPA ID # WAH 000 0	
EPA	ID# WAH OOO O26 371	WO#			J WASHINGTON - TO	OTAL RECLAIM
GENERATOR OF WA			<b>BILLING II</b>	NFORMATION:	EPA ID # WAD 009 4	82 803
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Address: <u>73/6</u>	: ILE ST		Address:	1124 1124 5	+B	1000
City/State/Zip: TAC	rma GEYNI	13		Zip: Jacoma	Manu	15
EPA I.D. #:			Contact:			
Contact:			Phone:			
Phone:			PO #:	Vazla		
I certify that the material described belo	ow was properly identified and prepare	ed for transportation		ules and regulations of the for	toral state and least series	······
whose jurisdictions the materials origin. Generator Signature	ated, passed through, or are recycled	in	it Name			
> X. Autrite	Their	Prin	liname		Month	Day Year
I certify that the material described belo Transporter Signature	www.was.tendered.to.me.for.transport.in				<b>}</b>	
Manal 1019		Con	npany M	T	Month	Day Year
MATERIAL	AMOUNT		AMOUNT		EXTENDED	
	RECEIVED		ROCESSED		PRICE	INITIALS
STRAIGHT LAMPS						
CIRCULAR/U-SHAPED						
COMPACTS (CFLS)						
CRUSHED LAMPS *						
ACCIDENTLY BROKEN LAMPS						
HID LAMPS						
FIXTURES						
OTHER:						
BATTERIES						
NON-PCB BALLASTS				£		
PCB BALLASTS (NOT AK) *	2007 0	10Kg		.900		
OFF SPEC FEE / LABOR						
TRANSPORTATION						
Notes:		(1) 306		PCBC (	7 ( uc	3
		0 206	*	PCB5 Tadubgi	( 27	us ()
				00		rsy
*MANIFEST # 0/16778	33 JTK			(ad-		12.00
				Ĩ	100-1	175
	74		TAL \$	Ö P/	AID	_ INITIALS
I certify that the material described above Signature of Authorized Agent	e was received and <b>onsolidated for s</b> Print Name	hipment to EcoLight	s Northwest for recycling Company	g on the date indicated.		Received
			Company			Day Year
	CEDTI	FICATE O	F RECYCLII			l
By accepting the waste described above	, Ecolights certifies to the waste gene	erator that the transp	portation, storage and pr	vorcessing methods employed	are in	200.00
Signature of Authorized Agent					Dater	Received
Ecolights Northwest, LLC Total Reclaim, Inc.	19 1		Rober	4 tanca	8071	715
WHITE & Y	ELLOW - BILLING	PINK - CONSC		GOLDENROD - CL	JSTOMER	07/2010

22	a nrin	t or type. (Form desig	ned for use on elite	(12-pitch) typewrite	r.)							Approved. OMB No	
	UNIF	ORM HAZARDOUS	1. Generator ID Numb 40CFRPA	per		2. Page 1 of 1	3. Emerge 1-	ency Response 800–424-	Phone -9300	4. Manifest	Tracking Nu 167	<sup>mber</sup> 7833 J	
	5. Gen FA 97:	erator's Name and Mailin RALLON CONSUSTING STH AVE NW SAQUAH, WA 98	DETING, LLC		¥ x	- <b>-</b>	FC 23 T/	ORMER SC 10 EAST 1 ACOMA, W	)UND 8A 1TH STR 'A 98421	EET			
	Gener	ator's Phone: 1-800	)-424-9300					KKY SCH		U.S. EPAID			
	6. Trar TC	nsporter 1 Company Nan DTAL RECLAIM, I	ne NC.							WADO	094828	03	
	7. Trai	nsporter 2 Company Nan	ne							U.S. EPA ID	Number		
		signated Facility Name a	d Cite Address							U.S. EPA ID	Number		
	EC 19 SE	COLIGHTS NORT 115 S. CORGIAT I EATTLE, WA 9810	HWEST.LLC DRIVE							WAH000026371			
	9a.	9b. U.S. DOT Descrip	tion (including Proper S	hipping Name, Hazard	1 Class, ID Numbe	er,		10. Contai	1	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Co	
	НМ	and Packing Group (if						No.	Туре				
GENERATOR	x	9, PGII (P	32, POLYCH CB CONTAII	ILORINATEL	BALLASTS	715,501 3) 	10.		DM	40	ĸ		
GEN		2.											
		3.											
		4.		2									
	TAKEN OUT OF SERVICE DATE: 02/09/2015       1124 112TH ST. E TACOMA. WA 98445         ER G#171 Wear appropriate PPE when handling       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 puantity generator) is true.												
	Gen	I certify that the wasten	ninimization statement	identified in 40 CFR 20	62.27(a) (if I am a	large quantity ge	ignature	(b) (if I am a sr				Month 12	
INT'I	- 1	nternational Shipments	Import to	U.S.		Export from	1 U.S.		entry/exit: aving U.S.:				
<u> </u>		nsporter signature (for ex Transporter Acknowledgr		ials					<u></u>				
DTC	Tran	sporter 1 Printed/Typed	Name				ignature	2.//	10	DAGA		Month	
TD ANONOTED	Tran	ISPORTER 2 Printed/Typed	Name	NSHALL		ل ا	Signature	<u>n</u> ng		410		Month	
1	18.	Discrepancy			· · · ·		Г	<u> </u>		*			
	18a	. Discrepancy Indication	Space Quar	ntity	Туре		L	Residue	nce Number:		Rejection	Fu	
	18b	. Alternate Facility (or Ge	nerator)							U.S. EPA	ID Number		
011 ITV												Month	
		-			1 1 1 1 1 1 1 1 1	treatment, dispo	osal, and re	cycling systems	s)	4.			
		Hazardous Waste Report		Codes (i.e., codes for	r hazardous waste	13	1. H141-STORAGE, BULK / 2. 3. TRANSFER OFF-SITE / 2.						
	18c	Hazardous Waste Report H141-STORAGE. TRANSFER		2.		3	ł.			"			
		Hazardous Waste Report H141-STORAGE.		2.		overed by the m	ł.	ept as noted in	1 1	zun CIS		Month	

ECOLIGIA 100785 (2010) (206) 34 (206) 34 EPA ID#	E, WA 98124 <b>DIL</b> 3-1247 3-7445 FAX WAH OOO O26 371 N			ALASKA EPA ID # AKR 000 20 OREGON EPA ID # ORQ 000 0 WASHINGTON - EPA ID # WAH 000 0 WASHINGTON - TI EPA ID # WAD 009 4	026 789 - ECOLIGHTS 026 371 OTAL RECLAIN
ENERATOR OF WAST	The Maraller (	Name:		Ino112	
lame:	Anth Hitsh Car	Address:	and the second	1 m	Ne grande la grande
ddress:		City/State/Z	and the second se	n Northe	TYC.
City/State/Zip:			TOP I MEN	18-2-111	Man
PA I.D. #: Contact:		Phone:	and the second	a states	The start
hone:	under der Leiter beitrigen die		and that is	1/026	
					vernments in
certify that the material described below w whose jurisdictions the materials originated Generator Signature	, passed through, or are recycled in.	Print Name		Month	Day Year
certify that the material described below w Fransporter Signature	ras tendered to me for transport in acc	Company	s Dal	Month	Day Year
MATERIAL	AMOUNT	AMOUNT		EXTENDED	INITIALS
	RECEIVED	PROCESSED		FRICE	
STRAIGHT LAMPS	<u> </u>				a and a second
			an a		
CIRCULAR/U-SHAPED				a start and a start and	
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BATTERIES					
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PCB BALLASTS (NOT AK) *					
OFF SPEC FEE / LABOR					
TRANSPORTATION Notes	W HXI DW	MS			
*MANIFEST #					da,
		NT TOTAL \$	<u></u>	PAID	
I certify that the material described above Signature of Authorized Agent	was received and consolidated for ship Print Name	oment to EcoLights Northwest for recycl Company	ling on the date indicated	Month	12 Received Day Year
	CERTIF	ICATE OF RECYCL	ING	te da la la cala	la la cardad
By accepting the waste described above, accordance with all applicable federal, sta	EcoLights certifies to the waste genera			ved are in Da	ate Received
			and the second	Month	Day Yea