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Seattle, Washington 98102

October 15, 2019

Columbia Trust Company
c/o Ken Lederman
Foster Pepper PLLC
1111 Third Avenue, Suite 3000
Seattle, Washington 98101

SUBJECT: SUBSURFACE INVESTIGATION REPORT
Duwamish Yacht Property
1801 South 93rd Street
King County, Washington
Project Number: 1419-001

Dear Mr. Lederman:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this letter report to present the findings and results of the subsurface investigation conducted within the upland areas of the property located at the address listed above in unincorporated King County, Washington (the Property). The purpose of the investigation was to assess current condition of soil and groundwater on and beneath the Property.

PROPERTY DESCRIPTION

The following subsections provide a summary of the location, legal description, and current use of the Property, as well as a discussion of surrounding land use.

Location and Legal Description

The Property is located at 1801 South 93rd Street in unincorporated King County, as shown in Figure 1. Figure 2 depicts a plan view/layout of the Property. The Property consists of three irregularly shaped tax parcels (King County Parcel Nos. 000160-0029, 000160-0061, and 000160-0062; Parcels A through C, respectively) that cover a total of approximately 500,270 square feet (11.49 acres) of land in Township 24 North/Range 4 East/Section 33. According to the King County iMap application, the Property is located at an approximate elevation of 0 to 20 feet above mean sea level, with the highest elevations on the western portion of the Property; the eastern portion of the Property is submerged beneath the waters of the Lower Duwamish Waterway (LDW).

Structures and Improvements

Mr. Travis Zandi, a SoundEarth Associate Scientist, visited the Property on March 6, 2019, to review conditions and land use practices on the Property and on adjoining and nearby properties. The purpose of the Property reconnaissance was to identify readily apparent indications of hazardous or potentially hazardous substances or petroleum products that were historically or are currently used, generated, stored, or disposed of on the Property.

Grounds and Buildings

The northern portion of Parcel A is covered with a gravel storage yard. Multiple large ship hulls are stored on the western portion of Parcel A. A shop building and office building are located on the southern portion of Parcel A. The southern portion of Parcel A and the entirety of Parcel C are covered with an asphalt-paved parking lot. An apparent boat wash area with a dedicated drain is located on the northeastern portion of Parcel C.

The uplands portion of Parcel B is developed with a clubhouse, an office building, and multiple storage sheds. Interior access was not provided to the buildings. An electrical transformer is located south of the clubhouse. A boat lift dock is located on the southeastern portion of the uplands portion. Most of the surface of the Parcel B uplands is covered with an asphalt parking lot. Four floating docks with multiple slips occupied by boats are located on the submerged portion of the Property. The riverbank is covered with vegetation and riprap.

Stormwater appears to be diverted into catch basins located throughout the Property. Observations made at the Property indicated that the catch basins are plumbed into the municipal storm drain. One outfall was observed on the southeastern portion of the uplands portion of Parcel B. Based on documents discussed below, this appears to be the South 96th Street Basin discharge point.

Parcel A is currently occupied as a shop and storage area by Delta Marine and is developed with a 1987-vintage, one-story shop building that encloses approximately 12,000 square feet of space and a 1977-vintage, one-story office building that encloses approximately 1,350 square feet of space. Parcel B is occupied by the Duwamish Yacht Club and is developed with the following: a 1979-vintage, one-story office building that encloses approximately 600 square feet of space; a 1998-vintage, one-story restroom building that encloses approximately 200 square feet of space; and a 2002-vintage, one-story storage shed that encloses approximately 960 square feet of space. Parcel C is currently occupied as a storage area by Delta Marine, and is developed with a 1985-vintage, one-story shop building that encloses approximately 1,280 square feet of space.

HISTORICAL REVIEW

The history of land use for the Property and surrounding areas was evaluated to identify past uses that might have had adverse effects on the environmental conditions, primarily through the use of potentially hazardous materials. The following history of the Property and surrounding parcels is based on a compilation of information obtained from the following resources:

- King County Assessment records reviewed online and at Puget Sound Regional Archives (Attachment A)
- King County Department of Permitting and Environmental Review building permit files
- Cole's City Directories
- Historical City Atlases and Maps – Map of Seattle Tide Lands and Kroll Atlases of Seattle
- Aerial Photographs (Attachment B)

- Washington State Department of Ecology (Ecology) LDW River Mile 3.8 to 4.2 West Sea King Industrial Park Summary of Existing Information and Identification of Data Gaps (Data Gaps Report)

Historical Use of the Property

CHRONOLOGICAL DEVELOPMENT AND USE HISTORY FOR THE PROPERTY

Date(s)	Source	Description
1913	Map of Seattle Tide Lands	The east-adjointing Duwamish River is channelized for use as the LDW.
1930	Kroll Map	The Property is vacant and undeveloped.
1936	Aerial Photograph	The western portion of the Property appears to be used for agricultural purposes. A road is depicted along the central portion of Parcel B. A second road, which appears to be a smaller access road, is located along the southern portions of Parcels A and B and the central portion of Parcel C. A small stream is visible parallel to the access road along the southern portions of Parcels A and B and the central portion of Parcel C.
1939	Tax Records	Giuseppe Desimone purchases the Property.
1946	Aerial Photographs	A structure is located along the waterfront on the northeastern portion of Parcel B, east of the road located on the central portion of the parcel. An oblique aerial shows the structure in the waters of the LDW, while an orthogonal aerial appears to show the residence on tideflats. The remaining agricultural portions of the Property appear to have been recently plowed. The roadways and stream noted on the 1936 aerial remain on the Property; the stream discharges to the LDW near the southeastern corner of Parcel B. An access road that connects to a road located south of the parcel is located on the western portion of Parcel C. A building has been constructed on the Delta Marine property to the south of Parcel B, and several structures have been constructed to the north and northwest of Parcel A.
1952–1955	Aerial Photographs	The Property appears to be in generally the same condition as in the previous aerial photographs. There are no visual indications of fill material.

Date(s)	Source	Description
1960	Aerial Photograph	The Property remains mostly vacant, with a structure still visible on the northeastern portion on the Property and the stream present along the southern portion of the Property. The exterior areas of the Property appear to be mottled with a light-colored material. Commonly, the mottled appearance is associated with the placement of fill material. The light coloring may be due to the inclusion of cement kiln dust in the fill material. Similar mottling is evident on the property to the south of Parcel A and north of Parcel B.
1961	Aerial Photograph	The northwestern portion of the Property appears to be partially covered with patches of vegetation. The southern portion of the Property appears to be cultivated for agricultural use. The residence is still located on the northeastern portion of the Property and the stream is still visible along the southern portion of the Property.
1963	Tax Records	San Juan Concrete Products constructs a storage yard and dock on the Property.
1965	Aerial Photograph	White discoloration, which may indicate the presence of fill material, is visible on the northern portion of the Property. A dock is located on the submerged portion of the Property on the southeastern portion of Parcel B. The southern portion of Parcel B and the northern portion of Parcel C appears to have been cleared. An access road is located along the western portion of Parcel C. This access road appears to bridge the stream along the southern portion of the Property. Numerous vehicles are visible on the southern portion of Parcel C. These vehicles may be related to the operation of a junkyard that is visible on the southwest-adjointing property. However, there are significantly more vehicles and other materials stored on the adjoining property than on the southern portion of Parcel C. Portions of the west-adjointing property are also occupied by a junkyard.
1966	Kroll Map	The Kroll map indicates that the Property is used as a "Saturnalite Storage Yard." Saturnalite is the brand name of a lightweight concrete aggregate material.
1967–1968	Aerial Photographs	Vegetation is visible on the northern portion of the Property where potential fill material was previously identified. A light-colored patch is located in the cleared southeastern portion of the Property, which potentially suggests the presence of fill material. The southwest-adjointing property is in use as a junkyard, as are portions of the west-adjointing property. Vehicles are also parked on the southern portion of Parcel C, but it is not apparent whether the vehicles are parked temporarily, or if they are associated with the southwest-adjointing junkyard.

Date(s)	Source	Description
1969–1974	Aerial Photograph, Ecology Data Gaps Report	The residence is no longer located on the northeastern portion of the Property. The dock remains on the southeastern portion of the Property. The junkyard on the southwest- and west-adjointing properties have expanded, and now appear to extend onto portions of Parcels B and C of the Property.
1978	Aerial Photograph, Tax Records	The eastern portion of Parcel B has been dredged, resulting in a straightened shoreline. Boat slips have been constructed on the submerged portion of the Property. Tax records indicate that a dock, winch anchor, bulkhead ramp, and piles were removed at this time and a new sloped revetment (retaining wall) was constructed of concrete riprap along the shoreline. The remaining portions of the Property have been cleared of vegetation. No vehicles or visual indications of a junkyard are present on the Property. Most of the vehicles have been removed from the adjoining property to the southwest and all the vehicles have been removed from the west-adjointing property. Warehouse structures have been constructed on the properties to the west and southwest.
1979	Tax Records	A one-story, steel-framed shop building is constructed on Parcel A. Heat is provided by space heaters. A one-story, wood-framed convenience market is constructed on Parcel B. A 1,500-gallon holding tank for a sanitary pump station is located south of the market building.
1982	Ecology Data Gaps Report	Duwamish Yacht Club conducts maintenance dredging in the submerged portions of the Property. Approximately 15,000 cubic yards of material is dredged and removed.
1983–1986	Aerial Photograph, Reverse Directories	Parcel A is occupied by ITEL Container and primarily used for container storage. Parcel B is occupied by the Duwamish Yacht Club. Parcel C is occupied by ITEL Container and primarily used as a parking lot and storage yard. The Property is paved and the creek along the southern portion of the Property has been covered by a parking lot.
1987	Tax Records	A one-story, wood-framed office building is constructed on Parcel A. Heat is provided by a forced air unit.
1989–1997	Aerial Photographs, Reverse Directories	Parcel A is occupied by ITEL Terminal/Global Intermodal Systems and primarily used for container storage. Parcel B is occupied by the Duwamish Yacht Club. Parcel C is occupied by ITEL Terminal and primarily used as a parking lot and storage yard.

Date(s)	Source	Description
1998	Tax Records, Building Permits	A one-story, wood-framed restroom is constructed on Parcel B. Heat is provided by electric baseboards.
2002	Tax Records	A one-story, prefabricated steel storage shed is constructed on Parcel B.
2005–2017	Aerial Photographs, Reverse Directories	Parcels A and C are occupied by Delta Marine. Parcel B is occupied by the Duwamish Yacht Club.

The Property appears to have been initially developed for agricultural use by 1936 and was occupied by a residence in at least 1946. Potential indications of fill material are visible on the Property as early as 1960. In 1963, San Juan Concrete Products constructed a storage yard and dock on the Property. A 1965 aerial photo indicates that the southern portion of the Property was cleared during construction of the storage yard; fill material may have been added to the cleared portions of the Property. In addition, visible indications of fill material are present along the northern portion of the Property in the 1965 aerial photograph. This fill material may have contained cement kiln dust. Vehicles and assorted debris, which appear to be related to the operation of a junkyard that also occupied portions of the west- and southwest-adjointing properties, are visible on the southern portion of the Property between at least 1967 and 1974. The Property was cleared and the existing marina was constructed in 1978. A shop building and a market building were constructed on the Property in 1979. By 1985, the majority of the Property was paved. Parcels A and C were occupied by a container storage yard between 1983 and 1997 and by Delta Marine since 2005. Parcel B has been occupied by Duwamish Yacht Club since 1979.

Regulatory Records

ITEL Terminals, a cargo and freight company that operated on the Property from approximately 1983 through 1995, submitted a Notification of Dangerous Wastes activities in 1987. According to the initial form, the facility stored used thinner on the site until removed by a third-party disposal company. Approximately 385 pounds of used thinner was generated annually. The site identification number associated with these activities was withdrawn in 2004 when the facility (then known as Global Intermodal) closed.

Delta Marine is also listed as a generator of hazardous wastes. According to the most recent (2018) Pollution Prevention Plan, Delta Marine generated wastes include styrene, lacquer thinner, paints, and stains. Ecology documents do not differentiate between activities conducted on the Property (Parcels A and C) and activities conducted at Delta Marine's off-Property facility to the south. However, the majority of the waste generation is assumed to take place at the off-Property facility where the bulk of Delta Marine's activities are conducted.

Lower Duwamish Waterway

The Property is located along the banks of the LDW, which was declared a Superfund site in 2001. Numerous documents and reports have been prepared identifying potential source properties located along the banks of the LDW.

The Property is listed as Delta Marine Industries (Parcels A and C) and Duwamish Yacht Club (Parcel B) in the Data Gaps Report for the Sea King Industrial Park, which was completed by Ecology in 2013. The Data Gaps Report identified two outfalls in the vicinity of the Duwamish Yacht Club. Outfall 2100(A), located on the southeastern corner of Parcel B, is the discharge point for the South 96th Street storm drainage system. Outfall 2100(B) is a 6-inch-diameter PVC pipe with an unknown use. A 1996 figure produced by Global Intermodal indicates that catch basins from Parcels A and C drain either into the South 96th Street storm drain system or potentially directly into the LDW. The Data Gaps Report indicates that these drains may discharge through Outfall 2100(B) but that the discharge point is unknown.

The remedial investigation report for the LDW lists three surface sediment samples (LDW-SS131, DR284, and WST314) that were collected in the waterway in the vicinity of the Property. A map showing these sample locations is included in Attachment C. All three samples were collected southeast of the existing docks. Chemicals that were detected at concentrations above the Sediment Quality Standards (SQS) included 1,2,4-trichlorobenzene and hexachlorobenzene in sample DR284. The concentrations of both chemicals were below the Cleanup Screening Level (CSL).

Atlas Geotechnical Engineering (Atlas) collected five sediment samples (sample numbers 1 through 5) from the submerged portion of Parcel B in 1989 as part of a dredge permit process for the Duwamish Yacht Club property. Sediments in the vicinity of Outfall 2100(A) contained concentrations of copper, lead, nickel, zinc, high molecular weight polycyclic aromatic hydrocarbons (PAHs), low molecular weight PAHs, dimethyl phthalate, and benzoic acid that exceeded open water disposal criteria. Based on grain size distribution analysis, Atlas concluded that the most likely source was runoff from industrial sites within the drainage basin.

Tax records and aerial photographs indicate that the Property was dredged in 1978, resulting in a straightened shoreline. The Data Gaps Report indicates that sediments were dredged from the submerged portions of Parcel B in at least 1982 and 1999. Duwamish Yacht Club received permits to dredge approximately 15,000 cubic yards of material in 1982. Ecology requested that the facility cap the dredge material to prevent potential leaching of heavy metals. A composite soil sample was collected from the dredge spoils at the upland disposal site in 1985. Polychlorinated biphenyls (PCBs), halogenated hydrocarbons, and metals were not detected or were detected below Washington State Model Toxics Control Act (MTCA) regulatory criteria, according to the Data Gaps Report. As a result, Ecology rescinded the capping requirement.

Hart Crowser reportedly completed a Dredge Material Characterization report for a 1999 sediment removal event. As part of that investigation, six samples were collected from the submerged portion of the Property. The results, which are included in the 2010 LDW RI report, indicated that 1,2,4-trichlorobenzene (a solvent used for a variety of compounds and materials) was detected at concentrations above the SQS but below the CSL in all six samples. Metals, PAHs, phthalates, phenols,

benzoic acid, and benzyl alcohol were detected at concentrations below both the SQS and the CSL. This material was subsequently dredged.

According to a Joint Public Notice issued by the US Army Corps of Engineers and Ecology, Duwamish Yacht Club submitted an application to dredge approximately 22,300 cubic yards of sediment from the eastern portion of Parcel B in 2013. As part of the permitting process, Kane Environmental, Inc. completed a Sediment Characterization Report in May 2013. Six Dredged Material Management Units (DMMUs) were identified in the characterization report. Subsurface DMMU-5 and DMMU-6 are located beneath the surface sediments identified as DMMU-4 at depths between 6 and 8 feet below the mean lower low water line. Eleven sediment samples (DC-1 through DC-11) were collected from the DMMUs to determine the disposal locations. The report concluded that sediments from DMMU-4 and DMMU-6 (Figure 2) contained concentrations of dioxins and furans, dimethyl phthalate, and butyl benzyl phthalate above the Dredged Material Management Office (DMMO) Screening Levels. Dioxins/furans were also detected at elevated concentrations, but below the DMMO Screening Levels in DMMU-1 and DMMU-5. PCBs and PAHs were detected in all the DMMUs at concentrations below the DMMO Screening Levels. The concentrations of dioxins and phthalates detected in the DMMUs are all below the SQS and CSL, as defined in the US Environmental Protection Agency (EPA) Record of Decision. According to Army Corps permit documents, 7,900 cubic yards of sediments were determined to be suitable for open water disposal while the remaining 14,400 cubic yards were determined unsuitable for open water disposal. The unsuitable material was to be disposed of at an upland disposal area. However, according to Ms. Kelsey van der Elst with the Army Corps of Engineers, this dredging was not completed.

Cement Kiln Dust

Cement kiln dust (CKD) is a very fine-grained material produced as a by-product of cement manufacturing. CKD commonly contains elevated concentrations of toxic constituents, such as arsenic, lead, chromium, PCBs, and dioxins. According to a report produced by Leidos for Ecology, which summarizes the known areas of CKD along the LDW, all three parcels of the Property are also listed as potentially containing CKD.

The Leidos report indicates that the Property was leased by San Juan Concrete Products Company between 1963 and 1965 and used for storage. The Leidos report indicates that during that time, CKD may have been deposited on Parcels A and B. Both parcels were subsequently occupied by a junkyard between 1965 and 1974.

The Leidos report references a 2007 arbitrator's decision that indicated CKD at the Property was reportedly capped and covered with fill material composed of dredged sediments from the LDW. The Leidos report did not include any additional information regarding the amount or source location of the dredged material, the year in which it was reportedly placed on the Property, or any chemical testing on the fill material.

Summary of Historical Review—Recognized Environmental Conditions

Aerial photographs indicate the likely addition of fill material to the Property between 1960 and 1965. According to the Leidos 2015 report, this fill material may have contained CKD, which is a very fine-grained material produced as a by-product of cement manufacturing and commonly contains elevated concentrations of arsenic, lead, chromium, PCBs, and dioxins. The potential presence of CKD on the Property was determined to be a potential issue of environmental concern.

Dredged material from the LDW was reportedly added to the Property. Information regarding the amount and original location of the dredged material was not included in the available records. The material placed may have been generated during dredging activities conducted on the Property in approximately 1978. This material was tested and designated suitable for upland fill. However, since the source of this fill material was not included in the available documents and considering the chemicals of concern that are potentially present in sediments of the LDW (such as PCBs, PAHs, arsenic, and dioxins/furans), the presence of fill material from the LDW was determined to be a potential issue of environmental concern.

The Ecology Data Gaps report indicated that a junkyard operated on the Property and surrounding properties between approximately 1965 and 1974. Assorted vehicles and debris are visible on the southern portion of the Property in an aerial photograph from 1967, and on Parcel C and the southern portion of Parcel B between 1969 and 1974. Impacts from petroleum, metals, PCBs, and PAHs are commonly encountered at junkyards. While specific impacts related to this historical activity have not been identified, the historical use of the Property as a junkyard was determined to be a potential issue of environmental concern.

SUBSURFACE INVESTIGATION

To assess the current environmental conditions on and beneath the Property, SoundEarth performed a subsurface investigation in June 19 and 20, 2019, that included in the advancement of 12 borings (B01 through B12). Four borings (borings B01 through B04) were advanced on Parcel A where potential fill material was observed on historical aerial photographs. Four borings (borings B05 through B08) were advanced on Parcel C where potential fill material and a historical junkyard were observed on historical aerial photographs. Four borings (borings B09 through B12) were advanced on Parcel B along the eastern uplands portions of the Property, proximate to the shoreline, in order to evaluate whether soil or groundwater along the shoreline of the Property contains elevated concentrations of the contaminants that have been detected in the sediments of the adjacent LDW. Prior to conducting the investigation, private and public utility locate services were used to identify the location of underground utilities. Private utility locates were conducted by CNI Locates, Ltd. of Bonney Lake, Washington.

Under the observation of a licensed SoundEarth geologist, Environmental Services Network Northwest advanced twelve direct-push soil borings to a depth of 20 feet below ground surface (bgs) at the locations shown on Figure 2. The borings were advanced using a truck-mounted GeoProbe drill rig. Soil was sampled at 4- to 5-foot intervals from the continuous cores retrieved from each direct-push boring.

Field Activities

Soil samples were described in accordance with American Society for Testing Material Method D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), and a Unified Soil Classification System (USCS) group symbol was assigned to each sample. Soil samples were screened in the field for potential evidence of contamination using visual observations and notations of odor, and by conducting headspace analysis using a photoionization detector (PID) to detect the presence of volatile organic vapors. The USCS symbol, visual and olfactory notations for the samples, and PID readings were recorded on boring log forms, copies of which are provided as Attachment D. Soil samples selected for laboratory analysis were placed directly into laboratory-prepared glassware, in accordance with EPA guidelines. Soil cuttings and decontamination water generated during the investigations were placed in three labeled 16-gallon drums, pending waste profiling and proper disposal.

Based on boring locations, screening results, sampling depths, and observed soil characteristics, selected soil samples from the borings were labeled with a unique sample ID, placed on ice in a cooler, and delivered to Friedman & Bruya, Inc. of Seattle, Washington, under standard chain-of-custody protocols for laboratory analysis of the following:

- MTCA 5 metals (arsenic, cadmium, chromium, mercury, and lead) by EPA Method 1631E
- PCBs by EPA Method 8082A
- PAHs by EPA Method 8270D
- Diesel-range petroleum hydrocarbons (DRPH) and oil-range petroleum hydrocarbons (ORPH) by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Dx
- Gasoline-range petroleum hydrocarbons (GRPH) by Method NWTPH-Gx
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B

Reconnaissance groundwater samples were collected from eight of the soil borings and submitted for the following analyses:

- MTCA 5 metals by EPA Method 1631E
- PCBs by EPA Method 8082A
- PAHs by EPA Method 8270D
- DRPH and ORPH by Method NWTPH-Dx
- GRPH by Method NWTPH-Gx
- BTEX by EPA Method 8021B

Reconnaissance groundwater samples collected from borings B05 and B07 were also submitted for analysis of volatile organic compounds (VOCs) by EPA Method 8260C.

Subsurface Conditions and Analytical Results

This section summarizes the results of the subsurface investigation. The analytical results for the soil samples collected during the investigation at the Property are presented in Tables 1 through 4 and on Figures 2 and 3. The analytical results for the groundwater samples collected during the investigation at the Property are presented in Tables 5 through 9 and on Figures 4 through 6. The laboratory analytical reports for the samples collected are provided in Attachment E.

Based on observations presented in soil boring logs provided in Attachment D, shallow soil conditions on the Property generally consisted of silty sand with gravel, sand with trace silt, and silt with trace gravel. Groundwater was encountered at depths between 8 and 12 feet bgs.

The results of laboratory testing of the soil samples revealed the following:

- Cadmium, arsenic, and lead were detected at concentrations above their respective MTCA Method A cleanup levels in only one boring—boring B02. Mercury was also detected in boring B02 at a concentration below the MTCA Method A cleanup level. Cadmium was detected at a

concentration below the MTCA Method A cleanup level in boring B12. Lead, arsenic, and chromium were detected at concentrations below their respective MTCA Method A cleanup levels in the remaining borings.

- PAHs, including naphthalene and benzo(a)pyrene, were detected at a concentration above the MTCA Method A cleanup level in only one boring—boring B12. PAHs were detected in the remaining borings at concentrations below the MTCA Method A cleanup level.
- PCBs were detected in 7 of the 12 borings at concentrations below the MTCA Method A cleanup level.
- DRPH was detected at a concentration below the MTCA Method A cleanup level in one sample collected from boring B12 at a depth of 15 feet bgs.
- GRPH, ORPH, and BTEX were not detected in any of the soil samples.

Laboratory testing of groundwater samples revealed the following:

- DRPH and PAHs were detected at concentration above their MTCA Method A cleanup levels in only one reconnaissance groundwater sample collected at boring B12. GRPH was also detected in boring B12 at a concentration below the MTCA Method A cleanup level. DRPH was also detected in borings B01, B04, B05, B07, B08, and B09 at concentrations below the MTCA Method A cleanup level.
- Arsenic was detected at concentrations above the MTCA Method A cleanup level in all eight reconnaissance groundwater samples.
- Lead was detected at a concentration above the MTCA Method A cleanup level in only one boring—boring B02. Lead was detected at concentrations below the MTCA Method A cleanup level in six of the remaining seven borings
- Chromium was detected at concentrations below the MTCA Method A cleanup level in all eight borings.
- ORPH, BTEX, mercury, PCBs, and VOCs were not detected in any of the groundwater samples analyzed.

CONCLUSIONS

The results of our investigation have demonstrated that impacts on and beneath the Property are relatively minor in magnitude, and appear to be generally limited to the western portion and southeastern portions of the Property. Impacts to soil were limited to elevated concentrations of arsenic, cadmium, and lead in boring B02 located on the western portion of the Property, and elevated concentrations of PAHs in boring B12 located on the southeastern portion of the Property. The specific sources of these impacts have not been clearly identified, but they are likely related to the importation of fill material and potentially to the former use of the Property as a junkyard.

Groundwater impacts beneath the Property were encountered only in boring B12 on the southeastern portion of the Property, where the concentrations of DRPH and PAHs exceeded their respective MTCA Method A cleanup levels. Elevated concentrations of arsenic were detected in groundwater throughout the Property and the groundwater sample collected from boring B02 contained an elevated concentration

of lead; however, the elevated concentrations of arsenic and lead were detected in reconnaissance groundwater samples collected from temporary well points, which tend to produce artificially elevated results for metals and other contaminants due to the presence of suspended solids in the water column.

VOCs were not detected in any of the groundwater samples, and none of the soil or groundwater samples collected from the Property contained concentrations of PCBs that exceeded the laboratory's lower reporting limit.

Considering the limited magnitude and extent of the impacts on and beneath the Property, no further investigation is recommended.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

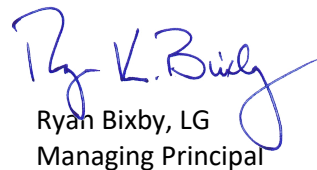
Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We do not warrant and are not responsible for the accuracy or validity of work performed by others, nor from the impacts of changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the use of segregated portions of this report.

Respectfully,

SoundEarth Strategies, Inc.



Travis Zandi
Associate Scientist



Ryan Bixby, LG
Managing Principal

Attachments: Figure 1, Property Location Map
Figure 2, Soil Analytical Results for PAHs
Figure 3, Soil Analytical Results for PCBs
Figure 4, Groundwater Analytical Results for TPH and BTEX
Figure 5, Groundwater Analytical Results for MTCA 5 Metals
Figure 6, Groundwater Analytical Results for PAHs
Table 1, Soil Analytical Results for TPH and BTEX
Table 2, Soil Analytical Results for MTCA 5 Metals
Table 3, Soil Analytical Results for PAHs
Table 4, Soil Analytical Results for PCBs
Table 5, Reconnaissance Groundwater Analytical Results for TPH and BTEX
Table 6, Reconnaissance Groundwater Analytical Results for VOCs

Table 7, Reconnaissance Groundwater Analytical Results for MTCA 5 Metals

Table 8, Reconnaissance Groundwater Analytical Results for PAHs

Table 9, Reconnaissance Groundwater Analytical Results for PCBs

A, Tax Records

B, Aerial Photographs

C, Selected Figures from Referenced Documents

D, Boring Logs

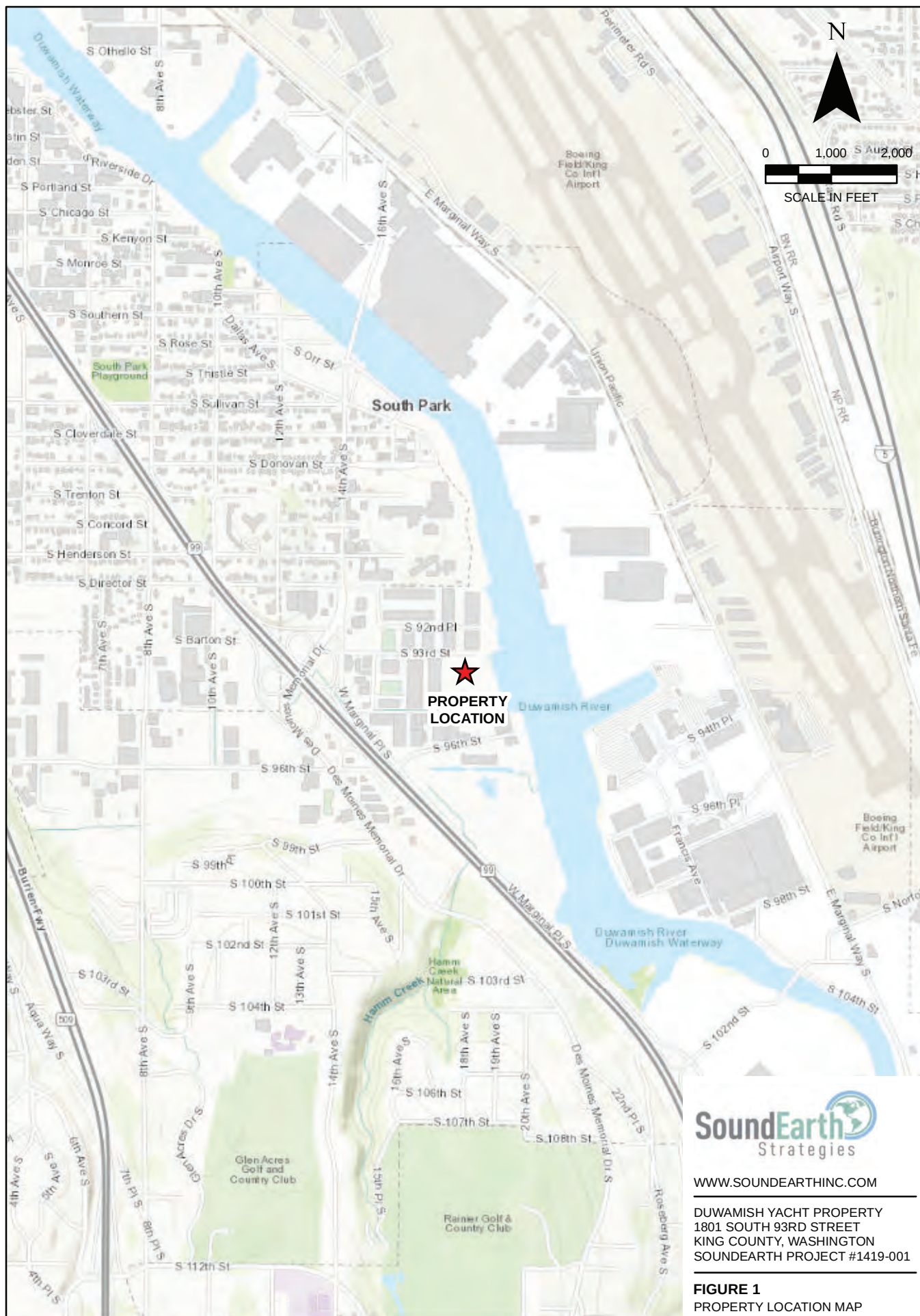
E, Laboratory Analytical Reports

Friedman & Bruya, Inc. #906443

Friedman & Bruya, Inc. #906444

TJZ/RKB:dnm

FIGURES



LEGEND

- CATCH BASIN
- B03 BORING LOCATION (SOUNDEARTH 2019)
- B01 GROUNDWATER SAMPLE LOCATION (SOUNDEARTH 2019)
- 5 SEDIMENT SAMPLE LOCATION (ATLAS 1989)
- 96-8 SEDIMENT SAMPLE LOCATION (HERRERA 1994)
- C6 SEDIMENT SAMPLE LOCATION (HART CROWSER 1999)
- WST314 SEDIMENT SAMPLE LOCATION (WINDWARD 2010)
- DC-11 SEDIMENT SAMPLE LOCATION (KANE 2013)
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- STORMWATER LINE
- SURFACE DMMU
- SUBSURFACE DMMU
- APPROXIMATE LOCATION OF AREAS OF VISUALLY APPARENT FILL PLACEMENT ON PROPERTY
- APPROXIMATE LOCATION OF FORMER JUNKYARD ON PROPERTY
- bgs BELOW GROUND SURFACE
- cPAH CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
- PAH POLYCYCLIC AROMATIC HYDROCARBONS
- TEQ TOXICITY EQUIVALENT
- DMMU DREDGED MATERIAL MANAGEMENT UNIT
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT
- RED DENOTES CONCENTRATION EXCEEDS MTCA METHOD A CLEANUP LEVELS



Well/Boring ID	Sample ID	Date Sampled	Depth (feet bgs)	Analytical Results (milligrams per kilogram)	
				Naphthalene	cPAH TEQ (milligrams per kilogram)
B01	B01-10	06/20/19	10	<0.01	0.008
B02	B02-10	06/20/19	10	<0.01	0.017
B03	B03-05	06/20/19	5	<0.01	0.008
B04	B04-05	06/20/19	5	0.45	0.008
B05	B05-10	06/19/19	10	<0.01	0.008
B06	B06-09	06/19/19	9	<0.01	0.008
B07	B07-05	06/19/19	5	<0.01	0.008
B08	B08-05	06/19/19	5	<0.01	0.010
B09	B09-10	06/20/19	10	<0.01	0.008
B10	B10-10	06/20/19	10	<0.01	0.008
B11	B11-20	06/20/19	20	<0.01	0.008
B12	B12-15	06/20/19	15	15	1.528
MTCA Cleanup Level for Soil				5	0.1



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DUWAMISH YACHT PROPERTY
1801 SOUTH 93RD STREET
KING COUNTY, WASHINGTON
SOUNDEARTH PROJECT #1419-001

FIGURE 2
SOIL ANALYTICAL RESULTS FOR PAHs

LEGEND

- CATCH BASIN
- B03 BORING LOCATION (SOUNDEARTH 2019)
- B01 GROUNDWATER SAMPLE LOCATION (SOUNDEARTH 2019)
- 5 SEDIMENT SAMPLE LOCATION (ATLAS 1989)
- 96-8 SEDIMENT SAMPLE LOCATION (HERRERA 1994)
- C6 SEDIMENT SAMPLE LOCATION (HART CROWSER 1999)
- WST314 SEDIMENT SAMPLE LOCATION (WINDWARD 2010)
- DC-11 SEDIMENT SAMPLE LOCATION (KANE 2013)
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- STORMWATER LINE
- SURFACE DMMU
- SUBSURFACE DMMU
- APPROXIMATE LOCATION OF AREAS OF VISUALLY APPARENT FILL PLACEMENT ON PROPERTY
- APPROXIMATE LOCATION OF FORMER JUNKYARD ON PROPERTY
- bgs BELOW GROUND SURFACE
- PCBs POLYCHLORINATED BIPHENYL
- DMMU DREDGED MATERIAL MANAGEMENT UNIT
- MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT

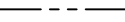
Sample ID	Sampled By	Date Sampled	Depth (feet bgs)	Analytical Results (milligrams per kilogram)
				Total PCBs
B01-10	SoundEarth	06/20/19	10	0.0024
B02-10		06/20/19	10	0.83
B03-05		06/20/19	5	0.23
B04-05		06/20/19	5	0.38
B05-10		06/19/19	10	<0.002
B06-09		06/19/19	9	<0.002
B07-05		06/19/19	5	<0.002
B08-05		06/19/19	5	0.34
B09-10		06/20/19	10	<0.002
B10-10		06/20/19	10	<0.002
B11-20		06/20/19	20	0.0042
B12-15		06/20/19	15	0.059
MTCA Cleanup Level for Soil				1.0

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DUWAMISH YACHT PROPERTY
1801 SOUTH 93RD STREET
KING COUNTY, WASHINGTON
SOUNDEARTH PROJECT #1419-001

FIGURE 3
SOIL ANALYTICAL RESULTS FOR PCBs

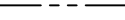
LEGEND

-  CATCH BASIN
-  B03 BORING LOCATION (SOUNDEARTH 2019)
-  B01 GROUNDWATER SAMPLE LOCATION (SOUNDEARTH 2019)
-  5 SEDIMENT SAMPLE LOCATION (ATLAS 1989)
-  96-8 SEDIMENT SAMPLE LOCATION (HERRERA 1994)
-  C6 SEDIMENT SAMPLE LOCATION (HART CROWSER 1999)
-  WST314 SEDIMENT SAMPLE LOCATION (WINDWARD 2010)
-  DC-11 SEDIMENT SAMPLE LOCATION (KANE 2013)
-  PROPERTY BOUNDARY
-  PARCEL BOUNDARY
-  SW STORMWATER LINE
-  SURFACE DMMU
-  SUBSURFACE DMMU
-  APPROXIMATE LOCATION OF AREAS OF VISUALLY APPARENT FILL PLACEMENT ON PROPERTY
-  APPROXIMATE LOCATION OF FORMER JUNKYARD ON PROPERTY
-  DMMU DREDGED MATERIAL MANAGEMENT UNIT
-  TPH TOTAL PETROLEUM HYDROCARBONS
-  BTEx BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
-  GRPH GASOLINE-RANGE PETROLEUM HYDROCARBONS
-  DRPH DIESEL-RANGE PETROLEUM HYDROCARBONS
-  ORPH OIL-RANGE PETROLEUM HYDROCARBONS
-  MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT
-  RED DENOTES CONCENTRATION EXCEEDS MTCA METHOD A CLEANUP LEVELS

Boring ID	Sample ID	Sampled By	Date Sampled	Analytical Results (micrograms per liter)						
				GRPH	DRPH	ORPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
B01	B01-20190620	SoundEarth	06/20/19	<100	130	<250	<1	<1	<1	<3
B02	B02-20190620		06/20/19	<100	<50	<250	<1	<1	<1	<3
B04	B04-20190620		06/20/19	<100	320	<250	<1	<1	<1	<3
B05	B05-20190619		06/19/19	<100	100	<250	<1	<1	<1	<3
B07	B07-20190619		06/19/19	<100	190	<250	<1	<1	<1	<3
B08	B08-20190619		06/19/19	<100	120	<250	<1	<1	<1	<3
B09	B09-20190620		06/20/19	<100	140	<250	<1	<1	<1	<3
B12	B12-20190620		06/20/19	200	2,200	<250	<1	<1	<1	<3
MTCA Cleanup Level for Groundwater				800	500	500	5	1,000	700	1,000



LEGEND

-  CATCH BASIN
-  B03 BORING LOCATION (SOUNDEARTH 2019)
-  B01 GROUNDWATER SAMPLE LOCATION (SOUNDEARTH 2019)
-  5 SEDIMENT SAMPLE LOCATION (ATLAS 1989)
-  96-8 SEDIMENT SAMPLE LOCATION (HERRERA 1994)
-  C6 SEDIMENT SAMPLE LOCATION (HART CROWSER 1999)
-  WST314 SEDIMENT SAMPLE LOCATION (WINDWARD 2010)
-  DC-11 SEDIMENT SAMPLE LOCATION (KANE 2013)
-  PROPERTY BOUNDARY
-  PARCEL BOUNDARY
-  SW STORMWATER LINE
-  SURFACE DMMU
-  SUBSURFACE DMMU
-  APPROXIMATE LOCATION OF AREAS OF VISUALLY APPARENT FILL PLACEMENT ON PROPERTY
-  APPROXIMATE LOCATION OF FORMER JUNKYARD ON PROPERTY
-  DMMU DREDGED MATERIAL MANAGEMENT UNIT
-  MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT
-  DENOTES CONCENTRATION EXCEEDS MTCA METHOD A CLEANUP LEVELS

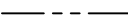
Well ID	Sample ID	Sampled By	Date Sampled	Analytical Results(micrograms per liter)				
				Arsenic Total	Cadmium Total	Chromium Total	Lead Total	Mercury Total
B01	B01-20190620	SoundEarth	06/20/19	7.40	<1	11.6	1.66	<1
B02	B02-20190620		06/20/19	17.6	1.06	36.9	21	<1
B04	B04-20190620		06/20/19	18.1	<1	12.3	1.31	<1
B05	B05-20190619		06/19/19	30.6	<1	5.85	<1	<1
B07	B07-20190619		06/19/19	8.67	<1	13.9	1.87	<1
B08	B08-20190619		06/19/19	11.2	<1	27.7	3.96	<1
B09	B09-20190620		06/20/19	9.01	<1	12	1.35	<1
B12	B12-20190620		06/20/19	7.47	<1	11.7	13.9	<1
MTCA Cleanup Level for Groundwater				5	5	50	15	2



DUWAMISH YACHT PROPERTY
1801 SOUTH 93RD STREET
KING COUNTY, WASHINGTON
SOUNDEARTH PROJECT #1419-001

FIGURE 5
GROUNDWATER ANALYTICAL
RESULTS FOR MTCA 5 METALS

LEGEND

-  CATCH BASIN
-  B03 BORING LOCATION (SOUNDEARTH 2019)
-  B01 GROUNDWATER SAMPLE LOCATION (SOUNDEARTH 2019)
-  5 SEDIMENT SAMPLE LOCATION (ATLAS 1989)
-  96-8 SEDIMENT SAMPLE LOCATION (HERRERA 1994)
-  C6 SEDIMENT SAMPLE LOCATION (HART CROWSER 1999)
-  WST314 SEDIMENT SAMPLE LOCATION (WINDWARD 2010)
-  DC-11 SEDIMENT SAMPLE LOCATION (KANE 2013)
-  PROPERTY BOUNDARY
-  PARCEL BOUNDARY
-  STORMWATER LINE
-  SURFACE DMMU
-  SUBSURFACE DMMU
-  APPROXIMATE LOCATION OF AREAS OF VISUALLY APPARENT FILL PLACEMENT ON PROPERTY
-  APPROXIMATE LOCATION OF FORMER JUNKYARD ON PROPERTY
-  DMMU DREDGED MATERIAL MANAGEMENT UNIT
-  cPAH CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
-  PAH POLYCYCLIC AROMATIC HYDROCARBONS
-  TEQ TOXICITY EQUIVALENT
-  MTCA WASHINGTON STATE MODEL TOXICS CONTROL ACT
-  RED DENOTES CONCENTRATION EXCEEDS MTCA METHOD A CLEANUP LEVELS

Well ID	Sample ID	Date Sampled	Analytical Results (micrograms per liter)	
			Naphthalene	cPAH TEQ (micrograms per liter)
B01	B01-20190620	06/20/19	<0.4	0.030
B02	B02-20190620	06/20/19	<0.4	0.030
B04	B04-20190620	06/20/19	<0.4	0.030
B05	B05-20190619	06/19/19	<0.4	0.030
B07	B07-20190619	06/19/19	<0.4	0.030
B08	B08-20190619	06/19/19	<0.4	0.030
B09	B09-20190620	06/20/19	<0.4	0.030
B12	B12-20190620	06/20/19	230	0.703
Groundwater			160	0.1



TABLES



Table 1
Soil Analytical Results for TPH and BTEX
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Boring ID	Sample ID	Sampled By	Date Sampled	Depth (feet bgs)	Analytical Results (milligrams per kilogram)						
					GRPH ⁽¹⁾	DRPH ⁽²⁾	ORPH ⁽²⁾	Benzene ⁽³⁾	Toluene ⁽³⁾	Ethylbenzene ⁽³⁾	Total Xylenes ⁽³⁾
B05	B05-05	SoundEarth	06/19/19	5	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
	B05-10		06/19/19	10	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B06	B06-04		06/19/19	4	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B06	B06-09		06/19/19	9	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B07	B07-05		06/19/19	5	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B07	B07-10		06/19/19	10	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B08	B08-05		06/19/19	5	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B08	B08-15		06/19/19	15	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B09	B09-05		06/20/19	5	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B09	B09-10		06/20/19	10	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B10	B10-05		06/20/19	5	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B10	B10-10		06/20/19	10	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B11	B11-05		06/20/19	5	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B11	B11-20		06/20/19	20	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B12	B12-10		06/20/19	10	<5	<50	<250	<0.02	<0.02	<0.02	<0.06
B12	B12-15		06/20/19	15	<5	93 ^x	<250	<0.02	<0.02	<0.02	<0.06
MTCA Cleanup Level for Soil ⁽⁴⁾					30	2,000	2,000	0.03	7	6	9

NOTES:

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

⁽¹⁾Analyzed by Method NWTPH-Gx.

⁽²⁾Analyzed by Method NWTPH-Dx.

⁽³⁾Analyzed by EPA Method 8021B.

⁽⁴⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, Unrestricted Land Uses, revised November 2007.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

BTEX = benzene, toluene, ethylbenzene, and total xylenes

DRPH = diesel-range petroleum hydrocarbons

EPA = US Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

TPH = total petroleum hydrocarbons

WAC = Washington Administrative Code



Table 2
Soil Analytical Results for MTCA 5 Metals
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Well/Boring ID	Sample ID	Date Sampled	Depth (feet bgs)	Analytical Results ⁽¹⁾ (milligrams per kilogram)				
				Arsenic	Cadmium	Chromium	Lead	Mercury
B01	B01-05	06/20/19	5	7.85	<1	18.9	14.8	<1
B01	B01-10	06/20/19	10	3.56	<1	12.8	3.81	<1
B01	B01-20	06/20/19	20	<1	<1	7.67	<1	<1
B02	B02-05	06/20/19	5	147	6.73	12.4	1,510	<1
B02	B02-10	06/20/19	10	12.4	6.97	38.6	494	1.33
B02	B02-20	06/20/19	20	1.17	<1	9.91	2.28	<1
B03	B03-05	06/20/19	5	4.61	<1	14	8.98	<1
B03	B03-10	06/20/19	10	3.08	<1	12.6	2.28	<1
B03	B03-15	06/20/19	15	<1	<1	8.88	1.00	<1
B04	B04-05	06/20/19	5	9.79	<1	10.8	76.9	<1
B04	B04-10	06/20/19	10	2.84	<1	14.8	3.84	<1
B04	B04-15	06/20/19	15	2.22	<1	11.0	1.76	<1
B05	B05-05	06/19/19	5	7.66	<1	9.78	22.1	<1
B05	B05-10	06/19/19	10	5.15	<1	14.1	2.58	<1
B05	B05-15	06/19/19	15	3.05	<1	9.62	1.05	<1
B06	B06-04	06/19/19	4	5.61	<1	10.2	32.4	<1
B06	B06-09	06/19/19	9	4.02	<1	8.89	3.18	<1
B06	B06-15	06/19/19	15	1.2	<1	9.64	1.00	<1
B07	B07-05	06/19/19	5	3.81	<1	10.1	10.5	<1
B07	B07-10	06/19/19	10	3.40	<1	8.35	2.19	<1
B07	B07-15	06/19/19	15	3.61	<1	8.93	1.27	<1
B08	B08-05	06/19/19	5	8.12	<1	13.1	26.2	<1
B08	B08-15	06/19/19	15	3.36	<1	12.1	1.61	<1
B08	B08-20	06/19/19	20	<1	<1	7.78	<1	<1
B09	B09-05	06/20/19	5	4.21	<1	13.4	6.7	<1
B09	B09-10	06/20/19	10	<1	<1	8.91	<1	<1
B09	B09-15	06/20/19	15	<1	<1	9.01	<1	<1
B10	B10-05	06/20/19	5	7.01	<1	16.9	9.53	<1
B10	B10-10	06/20/19	10	2.50	<1	10.1	1.86	<1
B10	B10-15	06/20/19	15	<1	<1	9.71	1.00	<1
B11	B11-05	06/20/19	5	5.45	<1	9.37	39.2	<1
B11	B11-10	06/20/19	10	7.12	<1	10.3	56.9	<1
B11	B11-20	06/20/19	20	3.86	<1	12.5	6.84	<1
B12	B12-05	06/20/19	5	4.09	<1	8.64	22.5	<1
B12	B12-10	06/20/19	10	6.76	<1	9.47	40.0	<1
B12	B12-15	06/20/19	15	5.56	1.99	24.2	38.4	<1
MTCA Cleanup Level for Soil				20⁽²⁾	2⁽²⁾	2,000⁽²⁾	250⁽²⁾	2⁽²⁾

NOTES:

Red denotes concentration exceeds MTCA cleanup level for soil.

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

⁽¹⁾Samples analyzed by EPA Method 200.8.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, Unrestricted Land Uses, revised November 2007.

< = not detected at a concentration exceeding the laborat

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculations

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

WAC = Washington Administrative Code



Table 3
Soil Analytical Results for PAHs
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Well/Boring ID	Sample ID	Date Sampled	Depth (feet bgs)	Analytical Results (milligrams per kilogram)									cPAHs Toxicity Equivalency ⁽¹⁾ (milligrams per kilogram)								TEQ ⁽¹⁾ (milligrams per kilogram)
				Naphthalene	Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)-perylene	Benzo(a)-anthracene TEF: 0.1	Chrysene TEF: 0.01	Benzo(a)pyrene TEF: 1	Benzo(b)-fluoranthene TEF: 0.1	Benzo(k)-fluoranthene TEF: 0.1	Indeno(1,2,3-cd)-pyrene TEF: 0.1	Dibenz(a,h)-anthracene TEF: 0.1		
B01	B01-10	06/20/19	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B02	B02-10	06/20/19	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	< 0.01	< 0.01	< 0.01	0.10	< 0.01	< 0.01	< 0.01	0.017	
B03	B03-05	06/20/19	5	<0.01	<0.01	<0.01	<0.01	0.016	<0.01	<0.01	0.033	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B04	B04-05	06/20/19	5	0.45	0.66	<0.01	0.081	0.31	0.012	0.024	0.029	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B05	B05-10	06/19/19	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B06	B06-09	06/19/19	9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B07	B07-05	06/19/19	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B08	B08-05	06/19/19	5	<0.01	<0.01	<0.01	<0.01	0.019	<0.01	0.032	0.033	<0.01	< 0.012	< 0.016	< 0.014	< 0.019	< 0.01	< 0.01	< 0.01	0.010	
B09	B09-10	06/20/19	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B10	B10-10	06/20/19	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B11	B11-20	06/20/19	20	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.008	
B12	B12-15	06/20/19	15	15	27	<0.01	20	64	5.7	24	20	0.11	3.2	3	0.95	1.6	0.46	0.17	0.049	1.528	
MTCA Cleanup Level for Soil				5 ⁽²⁾	4,800 ⁽³⁾	NE	3,200 ⁽³⁾	NE	24,000 ⁽³⁾	3,200 ⁽³⁾	2,400 ⁽³⁾	NE	NE	NE	0.1 ⁽²⁾	NE	NE	NE	NE	0.1 ⁽²⁾	

NOTES:

Red denotes concentration exceeds MTCA cleanup level for soil.

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

Samples analyzed by GC/MS-SIM or EPA Method 8270D.

⁽¹⁾Analytical result for each individual cPAH is multiplied by the TEF and all seven cPAH values are added. When analytical results are reported as less than the LRL, one half the LRL is used to calculate the TEQ.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, Unrestricted Land Uses, revised November 2007.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non cancer, Direct Contact, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculations

cPAH = carcinogenic polycyclic aromatic hydrocarbon

EPA = US Environmental Protection Agency

LRL = laboratory reporting limit

MTCA = Washington State Model Toxics Control Act

NE = not established

PAH = polycyclic aromatic hydrocarbon

TEF = toxicity equivalency factor

TEQ = toxicity equivalent

WAC = Washington Administrative Code



Table 4
Soil Sample Analytical Results for PCBs
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Sample ID	Sampled By	Date Sampled	Depth (feet bgs)	Analytical Results ⁽¹⁾ (milligrams per kilogram)							
				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs ⁽²⁾
B01-10	SoundEarth	06/20/19	10	<0.002	<0.002	<0.002	<0.002	<0.002	0.0024	<0.002	0.0024
B02-10		06/20/19	10	<0.002	<0.002	<0.002	<0.002	<0.002	0.83	<0.002	0.83
B03-05		06/20/19	5	<0.002	<0.002	<0.002	<0.002	<0.002	0.12	0.11	0.23
B04-05		06/20/19	5	<0.002	<0.002	<0.002	<0.002	<0.002	0.021	0.017	0.38
B05-10		06/19/19	10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
B06-09		06/19/19	9	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
B07-05		06/19/19	5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
B08-05		06/19/19	5	<0.002	<0.002	<0.002	<0.002	<0.002	0.021	0.013	0.34
B09-10		06/20/19	10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
B10-10		06/20/19	10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
B11-20		06/20/19	20	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0042	0.0042
B12-15		06/20/19	15	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.026	0.033
MTCA Cleanup Level for Soil ⁽³⁾				NE	NE	NE	NE	NE	NE	NE	1.0

NOTES:

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

⁽¹⁾Analyzed by EPA Method 8082A.

⁽²⁾Total PCBs are calculated by summing the detected PCB concentrations.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, Unrestricted Land Uses, revised November 2007.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

NE = Not established

PCB = polychlorinated biphenyl

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code



Table 5
Reconnaissance Groundwater Analytical Results for TPH and BTEX
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Boring ID	Sample ID	Sampled By	Date Sampled	Analytical Results (micrograms per liter)						
				GRPH ⁽¹⁾	DRPH ⁽²⁾	ORPH ⁽²⁾	Benzene ⁽³⁾	Toluene ⁽³⁾	Ethylbenzene ⁽³⁾	Total Xylenes ⁽³⁾
B01	B01-20190620	SoundEarth	06/20/19	<100	130 ^x	<250	<1	<1	<1	<3
B02	B02-20190620		06/20/19	<100	<50 ^{ip}	<250	<1	<1	<1	<3
B04	B04-20190620		06/20/19	<100	320 ^x	<250	<1	<1	<1	<3
B05	B05-20190619		06/19/19	<100	100 ^x	<250	<1	<1	<1	<3
B07	B07-20190619		06/19/19	<100	190 ^x	<250	<1	<1	<1	<3
B08	B08-20190619		06/19/19	<100	120 ^x	<250	<1	<1	<1	<3
B09	B09-20190620		06/20/19	<100	140 ^x	<250	<1	<1	<1	<3
B12	B12-20190620		06/20/19	200	2,200 ^{x,ip}	<250	<1	<1	<1	<3
MTCA Cleanup Level for Groundwater ⁽⁴⁾				800	500	500	5	1,000	700	1,000

NOTES:

Red denotes concentration exceeds MTCA cleanup level for groundwater.

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

⁽¹⁾ Analyzed by Method NWTPH-Gx.

⁽²⁾ Analyzed by Method NWTPH-Dx.

⁽³⁾ Analyzed by EPA Method 8021B.

⁽⁴⁾ MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

Laboratory Notes:

^{ip} Recovery fell outside of control limits due to sample matrix effects.

^x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

< = not detected at a concentration exceeding the laboratory reporting limit

BTEX = benzene, toluene, ethylbenzene, and total xylenes

DRPH = diesel-range petroleum hydrocarbons

EPA = US Environmental Protection Agency

GRPH = gasoline-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

TPH = total petroleum hydrocarbons

WAC = Washington Administrative Code



Table 6
Reconnaissance Groundwater Analytical Results for VOCs
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Boring ID	Sample ID	Sampled By	Date Sampled	Analytical Results ⁽¹⁾ (micrograms per liter)					
				Tetrachloroethene	Trichloroethene	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
B05	B05-20190620	SoundEarth	06/19/19	<1	<1	<1	<1	<1	<0.2
B07	B07-20190620		06/19/19	<1	<1	<1	<1	<1	<0.2
MTCA Cleanup Level for Groundwater				5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	400 ⁽³⁾	0.2 ⁽²⁾

NOTES:

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

⁽¹⁾ Samples analyzed by EPA Method 8260C.

⁽²⁾ MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

⁽³⁾ MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non cancer, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

< = not detected at a concentration exceeding the laboratory reporting limit

CLARC = Cleanup Levels and Risk Calculations

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

VOC = volatile organic compound

WAC = Washington Administrative Code



Table 7
Reconnaissance Groundwater Analytical Results for MTCA 5 Metals
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Well ID	Sample ID	Sampled By	Date Sampled	Analytical Results ⁽¹⁾ (micrograms per liter)				
				Arsenic	Cadmium	Chromium	Lead	Mercury
				Total	Total	Total	Total	Total
B01	B01-20190620	SoundEarth	06/20/19	7.40	<1	11.6	1.66	<1
B02	B02-20190620		06/20/19	17.6	1.06	36.9	21	<1
B04	B04-20190620		06/20/19	18.1	<1	12.3	1.31	<1
B05	B05-20190619		06/19/19	30.6	<1	5.85	<1	<1
B07	B07-20190619		06/19/19	8.67	<1	13.9	1.87	<1
B08	B08-20190619		06/19/19	11.2	<1	27.7	3.96	<1
B09	B09-20190620		06/20/19	9.01	<1	12	1.35	<1
B12	B12-20190620		06/20/19	7.47	<1	11.7	13.9	<1
MTCA Cleanup Level for Groundwater				5 ⁽²⁾	5 ⁽²⁾	50 ⁽²⁾	15 ⁽²⁾	2 ⁽²⁾

NOTES:

Red denotes concentration exceeds MTCA cleanup level for groundwater.

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

⁽¹⁾Samples analyzed by EPA Method 200.8.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

< = not detected at a concentration exceeding the laboratory reporting limit

CLARC = Cleanup Levels and Risk Calculations

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code



Table 8
Reconnaissance Groundwater Analytical Results for PAHs
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Well ID	Sample ID	Date Sampled	Analytical Results (micrograms per liter)									cPAHs Toxicity Equivalency ⁽¹⁾ (micrograms per liter)								TEQ ⁽¹⁾ (micrograms per liter)
			Naphthalene	Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)- perylene	Benzo(a)- anthracene TEF: 0.1	Chrysene TEF: 0.01	Benzo(a)pyrene TEF: 1	Benzo(b)- fluoranthene TEF: 0.1	Benzo(k)- fluoranthene TEF: 0.1	Indeno(1,2,3-cd)- pyrene TEF: 0.1	Dibenz(a,h)- anthracene TEF: 0.1		
B01	B01-20190620	06/20/19	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	0.030	
B02	B02-20190620	06/20/19	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	0.030	
B04	B04-20190620	06/20/19	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	0.030	
B05	B05-20190619	06/19/19	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	0.030	
B07	B07-20190619	06/19/19	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	0.030	
B08	B08-20190619	06/19/19	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	0.030	
B09	B09-20190620	06/20/19	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	0.030	
B12	B12-20190620	06/20/19	230	130	0.63	55	72	9.5	24	19	0.048	2.00	1.5	0.4	0.6	0.19	0.066	< 0.04	0.703	
MTCA Cleanup Level for Groundwater			160 ⁽²⁾	960 ⁽⁴⁾	NE	640 ⁽⁴⁾	NE	4,800 ⁽⁴⁾	640 ⁽⁴⁾	480 ⁽⁴⁾	NE	NE	NE	0.1 ⁽²⁾	NE	NE	NE	NE	0.1 ⁽²⁾	

NOTES:

Red denotes concentration exceeds MTCA cleanup level.

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

Samples analyzed by GC/MS-SIM or EPA Method 8270D.

⁽¹⁾Analytical result for each individual cPAH is multiplied by the TEF and all seven cPAH values are added. When analytical results are reported as less than the LRL, one half the LRL is used to calculate TEQ.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Cancer, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

⁽⁴⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non cancer, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

-- = not analyzed/not applicable

< = not detected at a concentration exceeding the laboratory reporting limit

CLARC = Cleanup Levels and Risk Calculations

cPAH = carcinogenic polycyclic aromatic hydrocarbon

EPA = US Environmental Protection Agency

LRL = laboratory reporting limit

MTCA = Washington State Model Toxics Control Act

NE = not established

PAH = polycyclic aromatic hydrocarbon

TEF = toxicity equivalency factor

TEQ = toxicity equivalent

WAC = Washington Administrative Code



Table 9
Reconnaissance Groundwater Analytical Results for PCBs
Duwamish Yacht Property
1801 South 93rd Street
Seattle, Washington

Boring ID	Sample ID	Sampled By	Date Sampled	Analytical Results ⁽¹⁾ (micrograms per liter)							
				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs ⁽²⁾
B01	B01-20190620	SoundEarth	06/20/19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
B02	B02-20190620		06/20/19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
B04	B04-20190620		06/20/19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
B05	B05-20190619		06/19/19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
B07	B07-20190619		06/19/19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
B08	B08-20190619		06/19/19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
B09	B09-20190620		06/20/19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
B12	B12-20190620		06/20/19	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MTCA Cleanup Level for Groundwater ⁽³⁾				NE	NE	NE	NE	NE	NE	NE	0.1

NOTES:

Sample analyses conducted by Friedman & Bruya Inc. of Seattle, Washington.

⁽¹⁾ Analyzed by EPA Method 8082A.

⁽²⁾ Total PCBs are calculated by summing the detected PCB concentrations.

⁽³⁾ MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Ground Water, revised November 2007.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

EPA = US Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

NE = Not established

PCB = polychlorinated biphenyl

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code

ATTACHMENT A
TAX RECORDS

A square is drawn with its top and left sides labeled "40'".

3687

1818 S 96TH ST

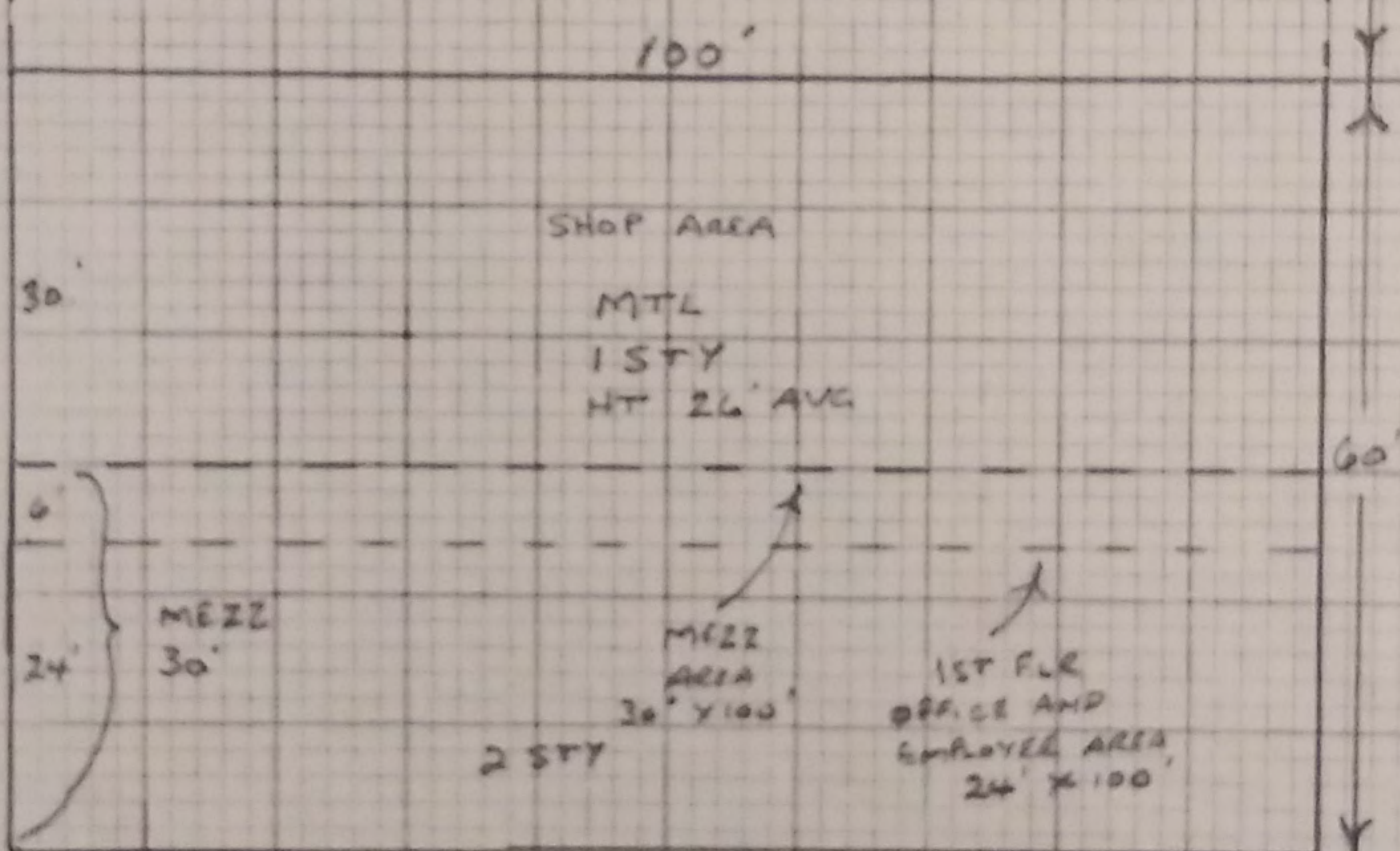
000160-0029

FOR ~~562400~~ MINOR ~~0001~~ SPLIT FOLIO 3687 SUBLETTER SUBNUMBER

ASSESSOR'S FORM



③ Est HT = 20'



AREA = 6,000 sq

PERIM = 320 1/2

3687

Imps now on 006/
3687

ASSESSOR'S ACCT NO 000160 - 0029 0061



0001 TRAVELING LIFT PIER



0002 STORAGE BLDG (2) 40x24



0003 CONVENIENCE BLDG (1) 40x24



0004 MOORAGE DOCKS

BUILDING CALCULATIONS						
IES	1-					
FAC.						
FAC.						
FAC.						
FAC.						
BASE						
T						
IR						
OMD						
TS						
IX						
L						
IES						
		BF @				
		BF @				
		BF @				
		BF @				
		BF @				
ITEMS						
TOTAL						
IONS						
L						
ST FACTOR						
TAL REPLACEMENT COST						\$
ICAL DEPRECIATION (NET)						X
TAL PHYSICAL VALUE						\$
ON, OR FUNCT OBSOL. (NET)						X
AL APPRAISED VALUE						\$
RCENT COMPLETE (NET)						X
RTIAL VALUE						\$

COMMENTS

4-24-79 DUWAMISH MARINA

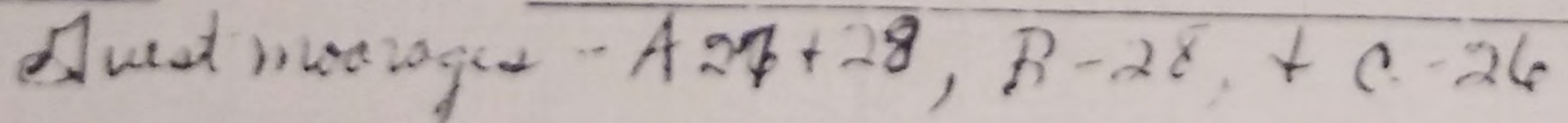
Permit 128065 532 732 - MARINA
" 127650 50 000 - TRAVELING LIFT PIER
582 732 X 100% complete
X 75% equalization =
437000

DUMESA 100 PARK
364-5300

SELECTED VALUE:	LAND	227600
APPRaiser 95	BLD'S	437000
DATE 4-24-79	TOTAL	664600

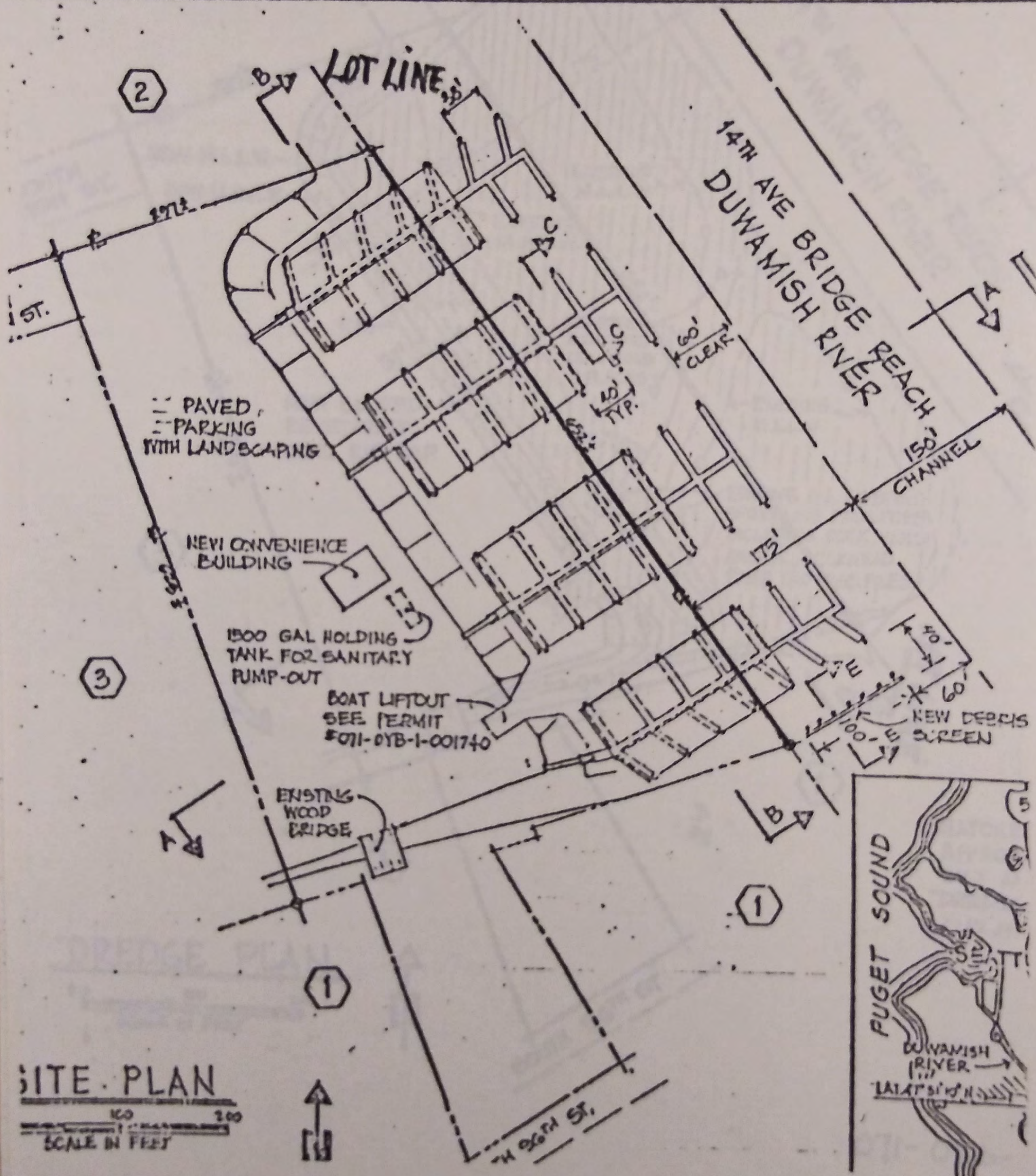
SALES

	PARCEL	E #	AMOUNT	DATE	LOCATION	NOTES
SUBJECT						
SUBJECT						
COMP						
COMP						

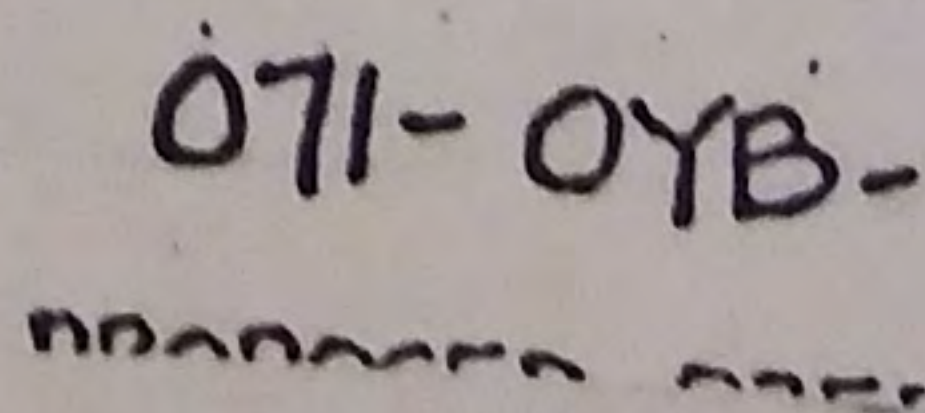


3687

000160-0061



000160-0061



FOLIO
3687

PERMIT NO.
4156

DATE
4-29-63

ADDITION

BUCKLEY'S DC # 42445

Section SW 33 Twp. 24 Range 4 Ewm. Block 546 Lot or Tract 229

Address 9428 W MARGINAL WAY

Legal on Back

Fee Owner SAN JUAN CONL PRODS

Architect

Contractor

Condition of Exterior G Interior G Foundation G Floor Plan: Good Accept. Good

USE 576 YARD
4-22-63

ROOF CONSTRUCTION

Frame Lam. ☐
Mill Construction
Rein. Concrete
No. Trusses
Wood ☐ Steel

ROOFING MATERIAL

Tar and Gravel

FLOOR FINISHES

Fir ☐ Maple
Oak ☐ 2"x6" T&G
Lino. ☐ 3"x6" T&G
Cement
Terrazzo
Racoolith
Tile

Tile ☐ Lino.

Baths ☐ Fl. ☐ Walls
Sq. Ft. Floors
Sq. Ft. Walls
Lin. Ft. Dr. Bds.
Sq. Ft. Floors
Sq. Ft. Walls
Lin. Ft. Dr. Bds.
Kit's ☐ Fl. ☐ Walls

PLUMBING

No. Fixtures
Toilets
Tub, Leg or Pem.
Basins, Ped.
Sinks
Urinals
Showers (Tub) (Stall)
Laundry Trays
H. W. Tank Fl. Drains ☐
Sprink. Sys. No. Hds.

HEATING

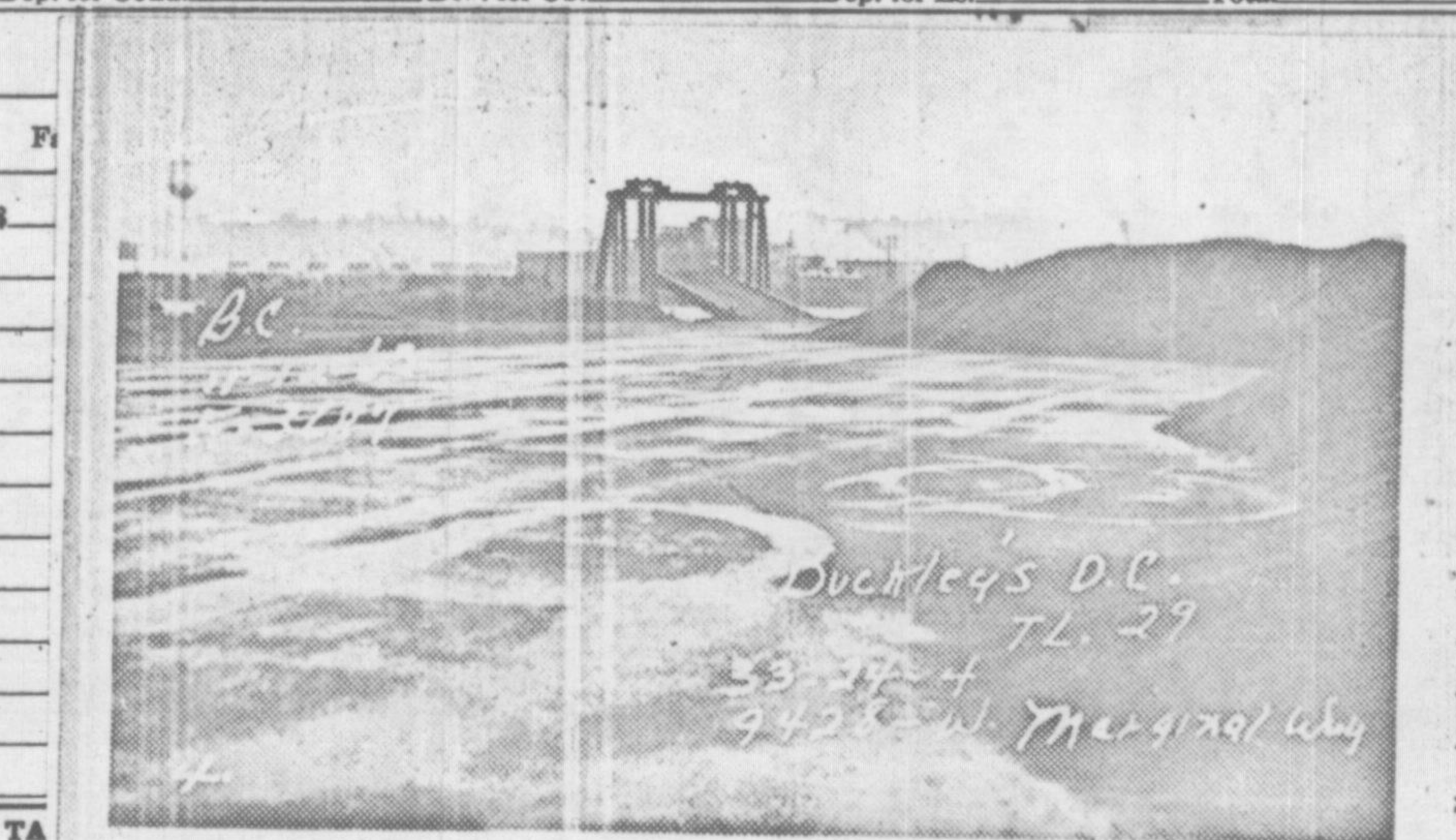
Stove
Pipeless Furnace
Gravity H. A.
Air Cond., Fan
Suspended Gas, Hot Water
Steam Heat
Hot Water
Oil Burner

Year	Assessed Value
1965	1850 3263
71	3700

TYPE OF CONSTRUCTION

Frame
Single ☐ Double
Ordinary Masonry
Mill Construction
Class A Rein. Con.
Stru. Steel and Con.
Tile ☐ Brick
Con. ☐ Rein. Con.
Good ☒ Med. ☐ Cheap ☐

Date Built 1963 ☐ Finished ☐ Unfinished ☐ Remodeled
Effective Age Years Future Life Years
Dep. for Cond. Der. for Ob. Dep. for Es. Total



FOUNDATION

Mud Sills
Post and Pier
Brick
Concrete
Pile

BASEMENT

Full ☐ %
Sub-Basement
Size
Garage ☐ No. Cars
Floors
Plastered
Living Rooms
Service Rooms

EXTERIOR WALL CONST.

Single ☐ Double
2" x 4" Stud Walls
2" x 6" Stud Walls
Brick Walls
Brick with Pilasters
Concrete Walls
Con. with Pilasters
Tile Walls
Rein. Con. Skel.
Filler Walls
Laminated Walls

EXTERIOR FACING

Siding ☐ Shingles
Shakes ☐ Stucco
Brick Veneer
Kind
Stone ☐ Cast S.
Terra Cotta
Struc. Glass
Trim

FLOOR CONSTRUCTION

Joint Con. Size 6 x 12
O.C. ☐ In Bridg. ☐
Mill Construction
Rein. Con.

INTERIOR WALLS

Stud and Plaster
Lam. ☐ Plastered
Plywood
Ceiled
Plaster Board
Painted
Stain ☐ Varnish
Kalsomine
Whitewashed
Unfinished

INTERIOR TRIM

Fir
Mah. ☐ Oak
Metal
Doors
Windows
Stained
Varnished
Painted
Unfinished

C. H.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

GROUND FLOOR AREA

TOTAL FLOOR AREA

UNLOADING
RAMP
54

Other Buildings	Construction	Floor	Roof	Stories	Dimensions	S. F. Area	Factor	Value	% Dep.	Deprec.	Net Value
Garage											

00016

LIMITS	ROAD	SCHOOL	WATER	FIRE	SEWER	HOSPITAL		METRO	PK & REC			
0	2	1		11								
						000160-0029 0054	9130	1850	1040 3015			
YR	AC	LAND	BLDGS	TOTAL	BY	DATE	REASON	CD	FEE OWNER	DATE	FILE #	PRICE
63	10 ²¹	9130		9130	(T) gF	5/23/63	chg. legal, A.I. & A.C.		L. 3068			
65	10 ²¹	9130	1850	10980	H8	1/16/64	Stg. yard & Dock					
66		40840	1850	42690	288	4-6-65	Rv					
66	62 ⁸	22600	1850	24450	(D) RR	4/29/65	Killed T.L. (28) see T.L. (24)				11-4027	
71	L	45200 B	3700 T	48900	000160-0054-0 819							
73		192550	4400	196950	CM	5-10-72	R V					

DISTRICT

2. ADDITION

JOHN BUCKLEY DONATION CLAIM # 42 & 45

00016

SECTION

TWP.

N. RANGE

EWM.

BLOCK

TRACT OR LOT NO.

29

DESCRIPTION

Beg on E ln 14th Ave S 660' S of S ln of South Park Add th S 629' th E

1850' to mdr ln th N 35°W alg mdr ln 800' to a pt E of beg th W 1410'±

to beg less W 1100' (6) ALSO A TRACT OF LAND LY S OF AN ELY EXTN OF N LN THOF,

WESTERLY OF C.W.W. #1 & E OF MEANDER LN IF ANY. TOW POR ABANDONED BED OF DUWAMISH RIVER

ADJ & LY WLY OF WLY MGN OF DUWAMISH WATERWAY

LIMITS

CODE NO.

Folio 3687

3. ADDRESS OF PROPERTY

CONTRACT PURCHASER

4. FEE OWNER

Giuseppe Desimone TO #13987

7-22-39 - filed 4-26-41

LAND INFORMATION

1. SIZE OF TRACT OR LOT

X

TOPOGRAPHY

Level

GRADE None

FT. 2. STREET-ROAD Graded

SURFACE Gravel

ALLEY

None

3. SIDEWALK

None

SEWAGE

Cesspool

WATER

PUMP

DRAINAGE

4. LANDSCAPING

Truck Garden

CONDITION

Fair

5. TREND Static

VALUE OF LOT \$

FRONT STREET

FACTOR \$

SIDE STREET FACTOR \$

DEPTH FACTOR \$

CREDIT

6. USE

7. DISTRICT

Poor-Old

ASSESSED VALUE LAND

LAND USE

SOIL TYPE

CROPS-TIMBER STAND

NO. ACRES

VALUE ACRE VALUE

LOT

UNIMPROVED ACRES

IMPROVED ACRES

OTHER LANDS

TIMBER

TOTAL ASSESSED VALUE 50% \$

DATE

REMARKS

O LAND SIZE

X

TOTAL

\$

C

OWNER OR CONTRACT PURCHASER

DATE

FILE NO.

PRICE

MTGE.

STAMP

NAT'L BANK OF COMMERCE TRUST DEPT.

a/c DESIMONE ESTATE

6/1/62

Vol 4282/267

DISTRICT:

ROAD

SCHOOL

WATER

FIRE

SEWER

HSPTL.

AIRPT.

FERRY

ASSESSED VALUE

DECREASE OR INCREASE IN ASSESSED VALUATION

LAND

YEAR	AC.	LAND	DATE	BY	REASON	DECREASE	INCREASE
1938		3070					
1938		3070					
1940	5-	3070			assess 1940 TO 13987		
1944		3070	7/3/43				
1959		8930	2/6/58	JG.	RV (CHG OF LEGAL 3/1/62 MM(T)		
1963	10.21	9130	5/23/63	JF(T)	CHG LEGAL, AV & AC	L - 3068	
19							
19							
19							
19							
19							

K - 1063)

LAND CLASSIFICATION AND SEGREGATION

THIS SQUARE INDICATES _____ ACRES

INDICATE BY AREAS, USE OF LAND BY MARKS AND TYPE BY LETTERS

SECTION SW 33
TWP. 24 N
RANGE 4 E

1040 00016 0054
BUCKLEY JOHN-D C # 42 & 45
BEG ON E MGN 14TH AVE S 1289 FT
OF S LN SOUTH PK ADD TH S
89-47-27 E 1025 FT TO TPOB TH N
00-36-38 E 295.68 FT TH S

89-47-27 E 735.35 FT TO WLY BDRY
DUWAMISH WATER WAY TH S 15-00-00
E ALG SD BDRY 306.40 FT TH N
89-47-27 W 817.80 FT TO TPOB LESS
RD

AERIAL PHOTO _____
QUARTER MAP _____
PLAT MAP _____

~~#5426~~
#23/88

LAND USE	ACRES
111 CULTIVATED	_____
# PASTURE	_____
00 TIMBER	_____
XX STUMP	_____
... GRAVEL OR USELESS	_____
V SWAMP	_____

LAND TYPE	ACRES
A SHOT CLAY	_____
B BOG	_____
C PEAT	_____
D SILT	_____
E _____ LOAM	_____
F GRAVEL	_____
G BOTTOM	_____
H UPLANDS	_____
K HILLY	_____

IF USED AS 1/4 SECT. SCALE ONE INCH 400 FEET OR 160 ACRES OR 2640 FEET
IF USED AS 1/4 OF 1/4 " SCALE ONE INCH 200 FEET OR 40 ACRES OR 1320 FEET
IF USED AS 1/4-1/4-1/4 " SCALE ONE INCH 100 FEET OR 10 ACRES OR 660 FEET

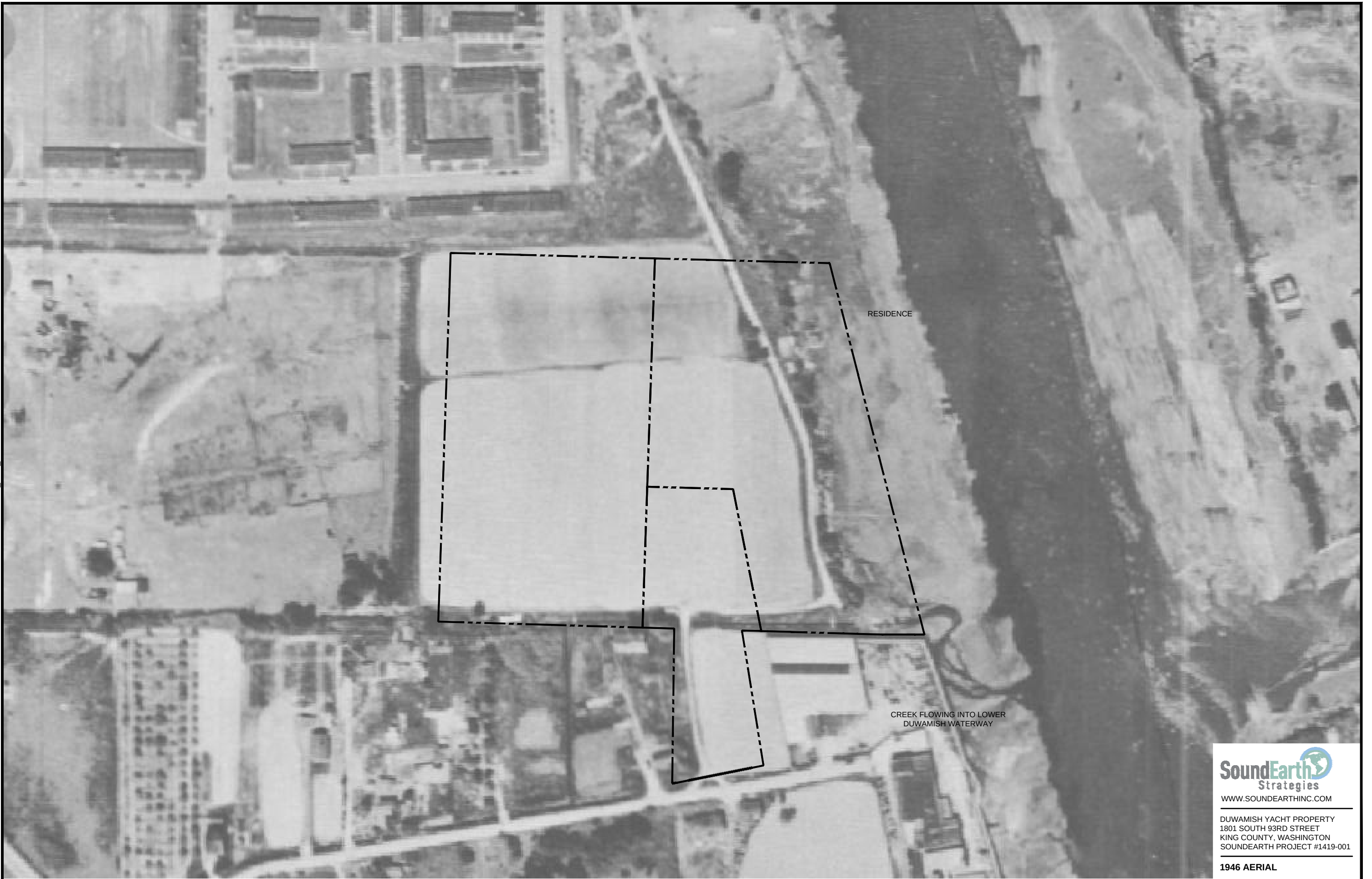
ATTACHMENT B
AERIAL PHOTOGRAPHS



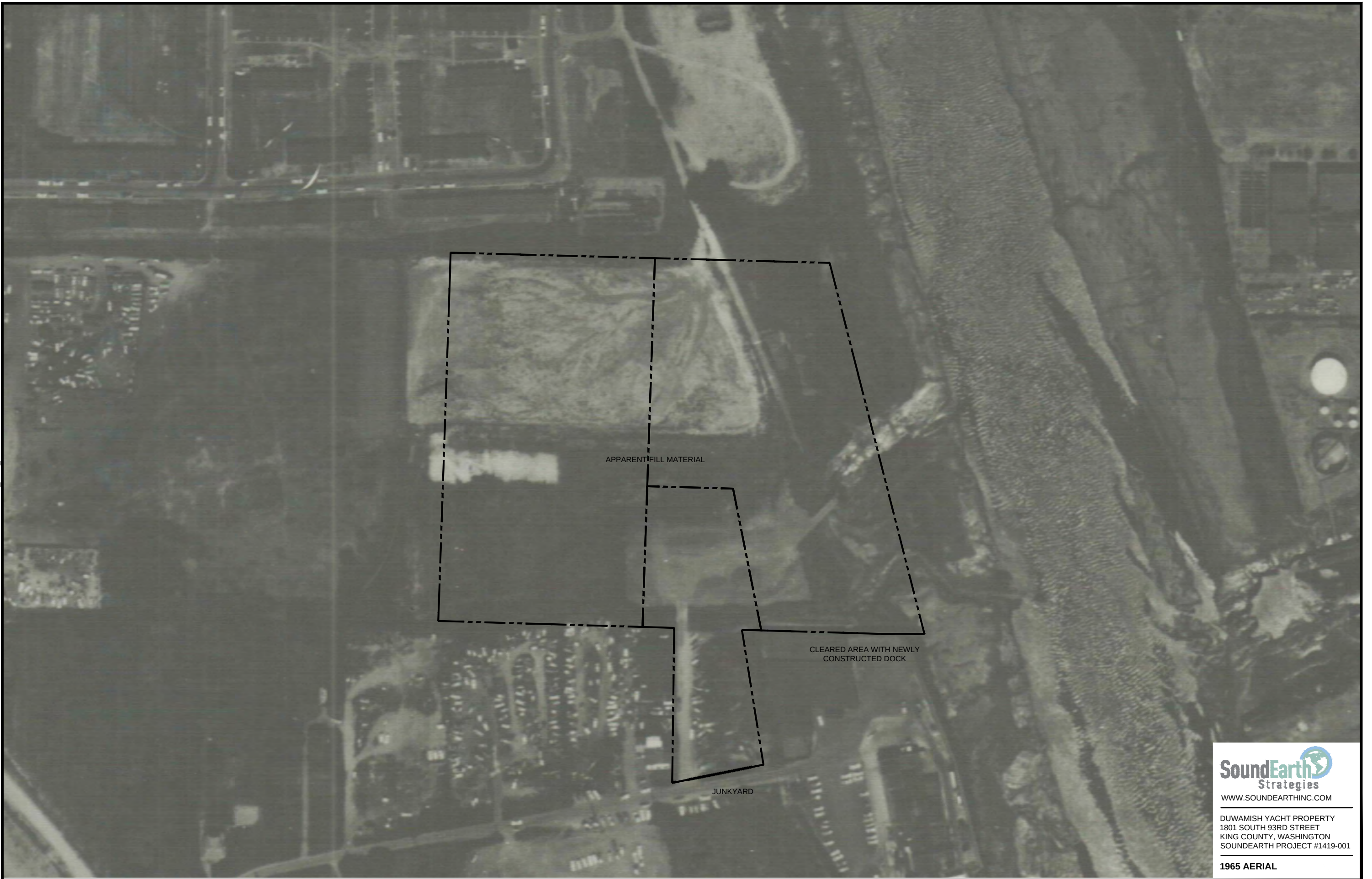
WWW.SOUNDEARTHINC.COM

DUWAMISH YACHT PROPERTY
1801 SOUTH 93RD STREET
KING COUNTY, WASHINGTON
SOUNDEARTH PROJECT #1419-001

1936 AERIAL

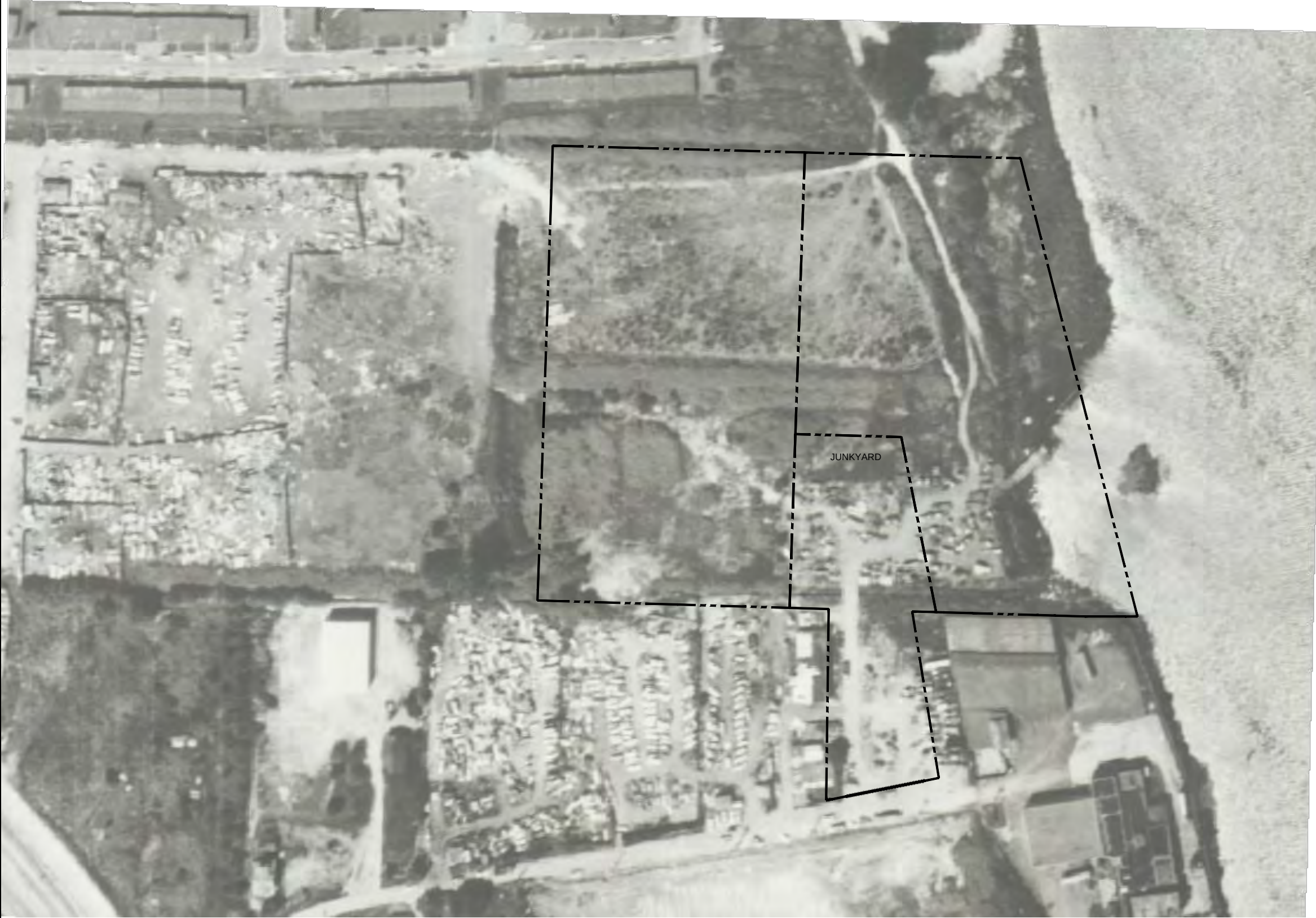








OVERGROWTH ON THE
NORTHERN PORTION OF
THE PROPERTY





WESTERN PORTION OF
THE PROPERTY HAS
BEEN CLEARED

EASTERN PORTION HAS BEEN
DREDGED AND MARINA HAS
BEEN PARTIALLY CONSTRUCTED



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DUWAMISH YACHT PROPERTY
1801 SOUTH 93RD STREET
KING COUNTY, WASHINGTON
SOUNDEARTH PROJECT #1419-001

1978 AERIAL



WWW.SOUNDEARTHINC.COM

DUWAMISH YACHT PROPERTY
1801 SOUTH 93RD STREET
KING COUNTY, WASHINGTON
SOUNDEARTH PROJECT #1419-001

1989 AERIAL

ATTACHMENT C
SELECTED FIGURES FROM REFERENCED DOCUMENTS

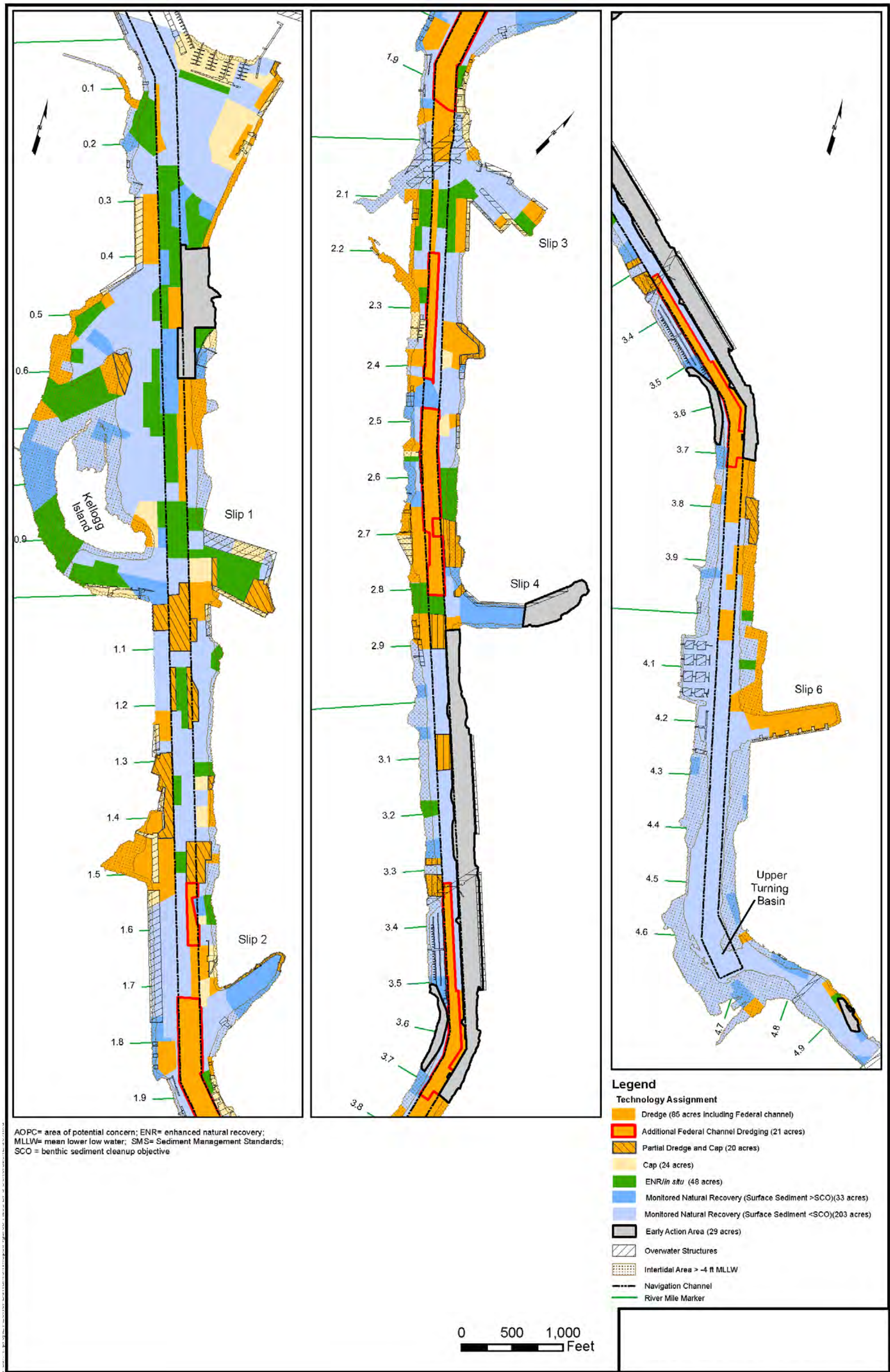
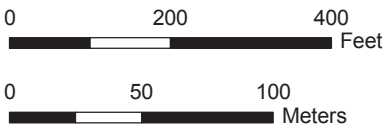
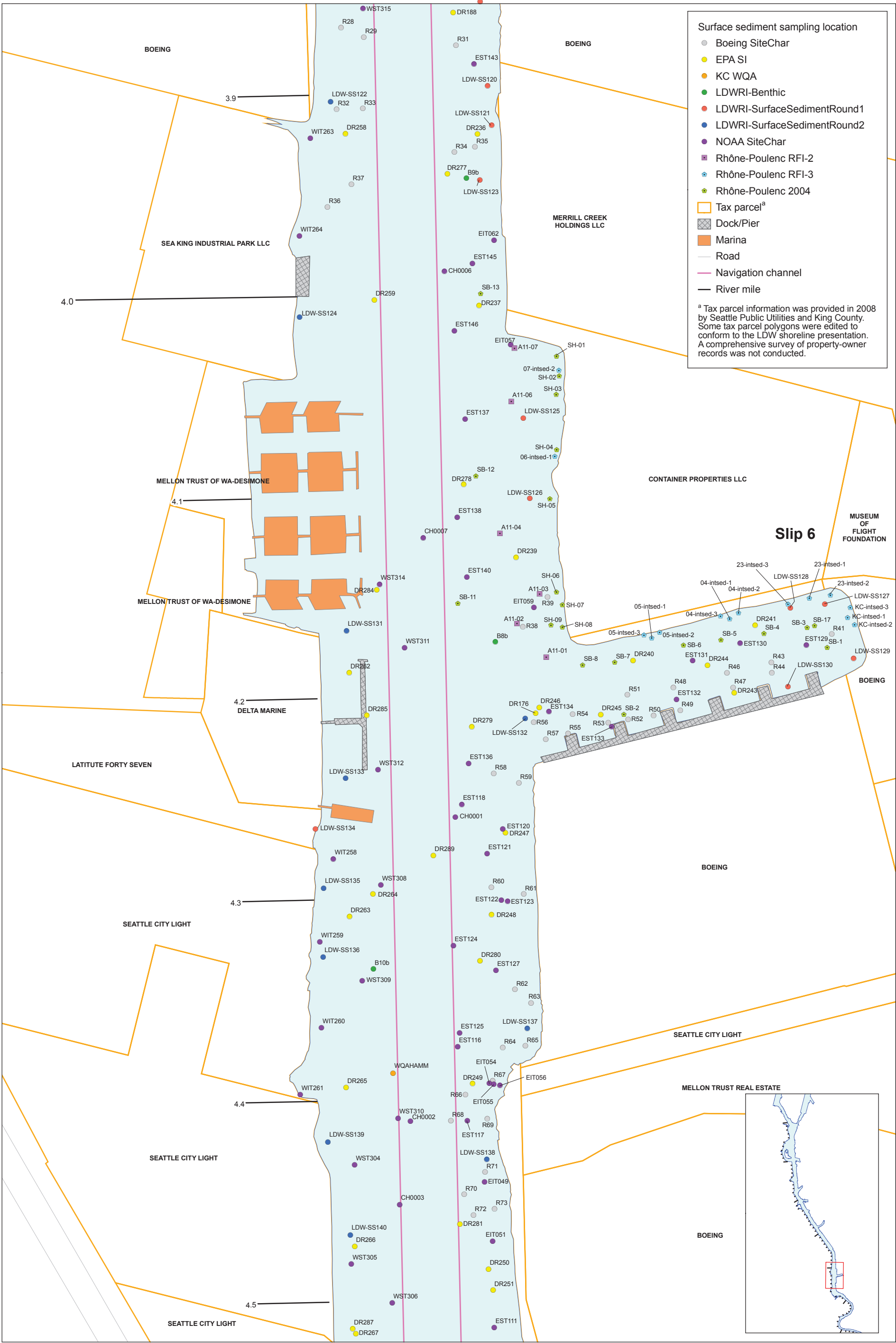
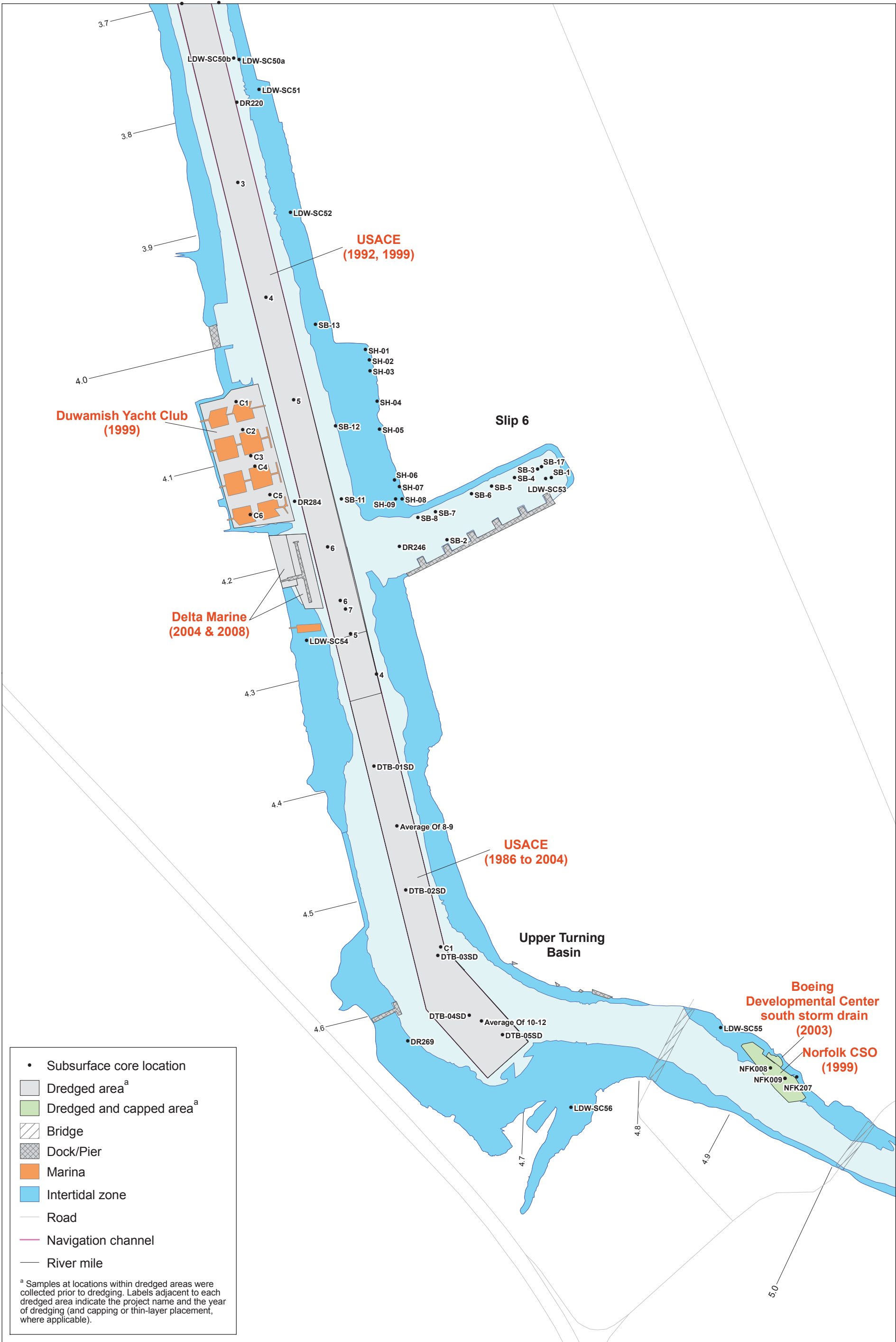


Figure 18. Selected Remedy



Map 4-4h. Surface sediment sampling locations, RM 3.9 to RM 4.5



ATTACHMENT D
BORING LOGS



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: Gravel
Location N/S: 54' S of parcel A NW corner
Location E/W: 150' E of parcel A NW corner
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | B01 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

Water Depth At Time of Drilling 9 feet bgs
 Water Depth After Completion 11.2 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							SM		0.0-3.0 feet bgs: Silty SAND with gravel, gray, no hydrocarbon odor, moist (15-60-25).	
			70				SP		3.0-5.5 feet bgs: Fine SAND, trace silt, brown to gray, no hydrocarbon odor, moist (5-95-0). Occasional wood debris, 1" wood fragment at 4 feet bgs.	
5				1.5	B01-05		SW		5.5-6.5 feet bgs: SAND with fine gravel, trace silt, gray, no hydrocarbon odor, moist (5-75-20).	
			90				SM		6.5-9.5 feet bgs: Fine silty SAND, black, no hydrocarbon odor, moist to wet, numerous organics/rootlets (15-85-0).	
10				0.8	B01-10	X	SM		9.5-10.5 feet bgs: Silty SAND with fine gravel, gray to dark brown, no hydrocarbon odor, wet (15-70-15).	
			80				SP		10.5-14.0 feet bgs: Fine SAND, trace silt, gray, no hydrocarbon odor, wet (5-95-0).	
15				1.7	B01-15		SP		14.0-20.0 feet bgs: Fine to medium SAND, trace silt, black, no hydrocarbon odor, wet (5-95-0).	
			90						Boring terminated at 20 feet bgs. Reconnaissance groundwater sample B01-20190620 collected through temporary well screened from 10 feet to 20 feet bgs. Borehole abandoned, backfilled with bentonite and sealed with asphalt.	
20				1.3	B01-20					

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: --
Location N/S: 109' S of parcel A NW corner
Location E/W: 349' E of parcel A NW corner
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | B02 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

Water Depth At Time of Drilling 9 feet bgs
 Water Depth After Completion 11.2 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							SP		0.0-1.5 feet bgs: SAND with gravel, trace silt, no hydrocarbon odor, moist (5-65-30).	
			90				SW		1.5-3.0 feet bgs: Fine SAND, trace silt, gray, no hydrocarbon odor, moist (5-95-0).	
							SW		3.0-6.0 feet bgs: Fine SAND, trace silt, gray, no hydrocarbon odor, moist (5-95-0).	
5				2.5	B02-05		SP		6.0-7.5 feet bgs: SAND with fine gravel, trace silt, gray, no hydrocarbon odor, moist, numerous organics, wood, glass, and plastic debris (5-75-20).	
			90				ML		7.5-10.0 feet bgs: SILT, trace gravel, dark brown to black, no hydrocarbon odor, moist to wet (95-0-5).	
10				3.8	B02-10	X			10.0-14.0 feet bgs: No recovery. 2" brick fragment at 10 feet bgs.	
			25				ML		14.0-14.5 feet bgs: SILT, dark brown to black, numerous organics, wood and glass debris, wet (100-0-0).	
15							SP		14.5-15.0 feet bgs: SAND, trace silt, gray, no hydrocarbon	

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: --
Location N/S: 109' S of parcel A NW corner
Location E/W: 349' E of parcel A NW corner
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | B02 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

 Water Depth At Time of Drilling 9 feet bgs
 Water Depth After Completion 11.2 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
				3.5	B02-15		SM		odor, wet (5-95-0).	
			60				SP		15.0-17.0 feet bgs: Silty SAND with gravel, dark brown to black, no hydrocarbon odor, wet (15-60-25). 17.0-20.0 feet bgs: Fine to medium SAND, trace silt, black, no hydrocarbon odor, wet (5-95-0).	
20				1.4	B02-20					
									Boring terminated at 20 feet bgs. Reconnaissance groundwater sample B02-20190620 collected through temporary well screened from 10 feet to 20 feet. Borehole abandoned and backfilled with bentonite.	
25										
30										

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: Gravel
Location N/S: 207' S of parcel A NW corner
Location E/W: 267' E of parcel A NW corner
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | B03 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

 Water Depth At Time of Drilling 10 feet bgs
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0			90				SP		0.0-3.0 feet bgs: SAND with fine gravel, trace silt, gray, no hydrocarbon, moist (5-75-20).	
5			100	1.4	B03-05	X	SM		3.0-8.0 feet bgs: Silty fine SAND, gray to black, no hydrocarbon odor, moist (15-85-0).	
10			90	3.8	B03-10		SP		8.0-13.0 feet bgs: Fine SAND, trace silt, gray, no hydrocarbon odor, moist (5-95-0)	
15			90	3.0	B03-15		SP		13.0-20.0 feet bgs: Fine to medium SAND, trace silt, black, no hydrocarbon, wet (5-95-0).	
20				1.8	B03-20				Boring terminated at 20 feet bgs. Borehole abandoned and backfilled with bentonite.	

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: Asphalt
Location N/S: 134" N of parcel A SW corner
Location E/W: 252' E of parcel A SW corner
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | **B04**
 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

Water Depth At Time of Drilling 12 feet bgs
Water Depth After Completion 11.5 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							SW		0.0-0.25 feet bgs: 3" of asphalt at surface.	
			80						0.25-5.0 feet bgs: SAND with fine gravel, trace silt, brown to gray, faint mothball odor around wood fragments (5-80-15).	
				3.7	B04-05	X			Numerous wood fragments and rootlets. 2" piece of wood at 4.5' bgs.	
5				5.2			SP		5.0-6.0 feet bgs: Fine SAND, trace silt, dark gray, no hydrocarbon odor, moist (5-95-0).	
			100				ML		6.0-7.0 feet bgs: SILT, black, no hydrocarbon odor, moist (100-0-0).	
							SP		7.0-10.0 feet bgs: Fine SAND, trace silt, gray, no hydrocarbon odor, moist (5-95-0).	
10				3.2	B04-10		SP		10.0-14.0 feet bgs: Fine SAND, trace silt, gray, no hydrocarbon odor, moist to wet (5-95-0).	
			90							
				0.8	B04-15		SP		14.0-20.0 feet bgs: Fine to medium SAND, trace silt, dark gray to black, no hydrocarbon odor, wet (5-95-0).	
15										
			80							
20				1.7	B04-20				Boring terminated at 20 feet bgs. Reconnaissance groundwater sample B04-20190620 collected through temporary well screened from 10 feet to 20 feet. Borehole abandoned, backfilled with bentonite and sealed with asphalt.	



Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/19/19
Surface Conditions: Asphalt
Location N/S: 75' S of parcel C NW corner
Location E/W: 53' E of parcel C NW corner
Reviewed by: CJT
Date Completed: 06/19/19

BORING LOG | B05 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

Water Depth At Time of Drilling 11 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							SW		0.0-0.25 feet bgs: 3" of asphalt at surface.	
			90				SP		0.25-3.0 feet bgs: SAND with gravel, trace silt, gray to brown, no hydrocarbon odor, moist (5-70-25). Concrete and asphalt debris, brick fragments, and charcoal.	
5				0.9	B05-05	X	ML		3.0-6.0 feet bgs: Fine to medium SAND, trace silt, dark gray, no hydrocarbon odor, moist (5-95-0).	
			90				SP-SM		6.0-8.0 feet bgs: Sandy SILT, dark gray, no hydrocarbon odor, moist (80-20-0).	
10				1.6	B05-10	X	SP		8.0-13.0 feet bgs: Fine SAND with silt, gray, no hydrocarbon odor, moist (10-90-0).	
			80							
15				1.8	B05-15				13.0-20.0 feet bgs: Fine to medium SAND, trace silt, black, no hydrocarbon odor, wet (5-95-0).	
			90							
20				1.3	B05-20				Boring terminated at 20 feet bgs. Reconnaissance groundwater sample B05-20190619 collected through temporary well screened from 10 feet to 20 feet. Borehole abandoned, backfilled with bentonite and sealed with asphalt.	

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/19/19
Surface Conditions: Asphalt
Location N/S: 127' S of parcel C NW corner
Location E/W: 40' E of parcel C NW corner
Reviewed by: CJT
Date Completed: 06/19/19

BORING LOG | **B06**
--

Site Address: 1801 South 93rd Street
Seattle, Washington

Water Depth At Time of Drilling 9.5 feet bgs
Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							SM		0.0-0.25 feet bgs: 3" of asphalt at surface.	
			90	1.9	B06-04	X	SP		0.25-4.0 feet bgs: Silty fine to medium SAND, trace gravel, dark gray to black, no hydrocarbon odor, moist, occasional wood fragments (15-80-5).	
5							SP		4.0-6.0 feet bgs: Fine to medium SAND, trace silt, gray, no hydrocarbon odor, moist (5-95-0).	
			95		B06-09	X	SP-SM		6.0-12.0 feet bgs: Alternating layers of SILT and fine to medium SAND, trace silt, gray to brown, no hydrocarbon odor, wet (100-0-0)/(5-95-0).	
10				1.2			SP		12.0-20.0 feet bgs: Fine to medium SAND, trace silt, black, no hydrocarbon odor, wet (5-95-0).	
			80	0.6	B06-15					
15				0.9	B06-20					
20									Boring terminated at 20 feet bgs. Borehole abandoned, backfilled with bentonite and sealed with asphalt.	

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/19/19
Surface Conditions: Asphalt
Location N/S: 237' S of parcel C NW corner
Location E/W: 94' E of parcel C NW corner
Reviewed by: CJT
Date Completed: 06/19/19

BORING LOG | B07 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

Water Depth At Time of Drilling 9.5 feet bgs
 Water Depth After Completion 11 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							GP		0.0-0.25 feet bgs: 3" of asphalt at surface.	
							SP-SM		0.25-1.0 feet bgs: Sandy fine GRAVEL, trace silt, gray, no hydrocarbon odor, moist (5-25-70).	
							ML		1.0-3.0 feet bgs: Fine to medium SAND with silt, trace gravel, dark gray, no hydrocarbon odor, moist (10-85-5).	
			90	18.9					3.0-5.5 feet bgs: SILT, light gray, no hydrocarbon odor, moist (100-0-0).	
5				19.9	B07-05	X			2" piece of wood at 4 feet bgs.	
							SP		5.5-9.5 feet bgs: Fine SAND, trace silt, gray to brown, no hydrocarbon odor, moist (5-95-0).	
			90	1.2						
				0.7	B07-10	X	SP		9.5-10.5 feet bgs: Fine SAND, trace silt, gray to brown, no hydrocarbon odor, wet (5-95-0).	
10							SP		10.5-15.0 feet bgs: Fine to medium SAND, trace silt, dark gray to black, no hydrocarbon odor, wet (5-95-0).	
			80							
				1.3	B07-15		SP		15.0-20.0 feet bgs: Fine to medium SAND, trace silt, dark gray to black, no hydrocarbon odor, wet (5-95-0).	
15										
			100							
20				1.9	B07-20				Boring terminated at 20 feet bgs. Reconnaissance groundwater sample B07-20190619 collected from temporary well screened from 10 feet to 20 feet. Borehole abandoned, backfilled with bentonite and sealed with asphalt.	

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: Asphalt
Location N/S: 252 N of NW corner of DYC office building
Location E/W: 66' W of NW corner of DYC office building
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | **B09**
--

Site Address: 1801 South 93rd Street
Seattle, Washington

▽ Water Depth At Time of Drilling 8.5 feet bgs
▽ Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							SP		0.0-0.25 feet bgs: 3" of asphalt at surface	
			70						0.2-5.0 feet bgs: Fine SAND, trace silt, alternating brown and gray layers, no hydrocarbon odor, moist (5-95-0).	
5				1.2	B09-05	X	SP		5.0-9.0 feet bgs: Fine SAND, trace silt, gray to brown, no hydrocarbon odor, moist to wet (5-95-0).	
			90						1" layer of silt at 8.5 feet bgs.	▽
10				1.6	B09-10	X	SP		9.0-20.0 feet bgs: Fine to medium SAND, trace silt, no hydrocarbon odor, wet (5-95-0).	
			80						1" layer of silt at 12 feet bgs.	
15				1.4	B09-15					
			100							
20				1.7	B09-20				Boring terminated at 20 feet bgs. Reconnaissance groundwater sample B09-20190620 collected from temporary well screened from 10 feet to 20 feet. Borehole abandoned, backfilled with bentonite and sealed with asphalt.	

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:
DYC: Duwamish Yacht Club



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: Asphalt
Location N/S: 74' N of NW corner of DYC office building
Location E/W: 33' W of NW corner of DYC office building
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | B10 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

Water Depth At Time of Drilling 9 feet bgs
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							SW		0.0-0.2 feet bgs: 2" of asphalt at surface	
			60				SP		0.2-1.5 feet bgs: SAND with gravel, trace silt, brown to tan, no hydrocarbon odor, moist (5-75-20).	
							SP		1.5-5.0 feet bgs: Fine SAND, trace silt, brown to black, no hydrocarbon odor, moist, occasional organics/rootlets (5-95-0).	
5				3.8	B10-05	X	SP		Sand grades from brown to black at 4.5 feet bgs.	
			70				SP		5.0-10.0 feet bgs: Fine SAND, trace silt, brown to black to gray, no hydrocarbon odor, moist to wet (5-95-0).	
10				1.6	B10-10	X	SM		10.0-12.5 feet bgs: Silty fine SAND, black to gray, no hydrocarbon odor, wet (15-85-0).	
			90				SP		12.5-20.0 feet bgs: Fine to medium SAND, trace silt and gravel, black, no hydrocarbon odor, wet (5-90-5),	
15				1.3	B10-15					
			100							
20				1.9	B10-20				Boring terminated at 20 feet bgs. Borehole abandoned, backfilled with bentonite and sealed with asphalt.	

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:
 DYC: Duwamish Yacht Club



Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: Asphalt
Location N/S: 132' S of SE corner of DYC office building
Location E/W: 4' E of SE corner of DYC office building
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | B11 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

 Water Depth At Time of Drilling 9 feet bgs
 Water Depth After Completion -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0									0.0-0.5 feet bgs: .5" of asphalt and gravel at surface	
			60				SP		0.5-5.0 feet bgs: Fine to medium SAND, trace gravel and silt, brown to gray, no hydrocarbon odor, moist, occasional organics/rootlets (5-90-5).	
5				5.0	B11-05	X	SP		5.0-10.0 feet bgs: SAND, trace gravel and silt, brown, no hydrocarbon odor, moist to wet, occasional wood debris (5-90-5). 2" piece of gravel at 7 feet bgs.	
10			70	2.3	B11-10		SP		3" piece of wood at 9.5 feet bgs. 10.0-12.5 feet bgs: Fine to medium SAND, trace silt, brown, no hydrocarbon odor, wet (5-95-0).	
			80				SM		12.5-16.0 feet bgs: Silty SAND, dark gray to black, no hydrocarbon odor, wet, occasional wood debris (20-80-0).	
15				2.5	B11-15		SM		16.0-17.5 feet bgs: Silty SAND, black, no hydrocarbon odor, wet, numerous organics (20-80-0).	
			80				ML		17.5-20.0 feet bgs: SILT, brown to green-gray, no hydrocarbon odor, wet, streaks of black organic material (100-0-0). Boring terminated at 20 feet bgs. Borehole abandoned, backfilled with bentonite and sealed with asphalt.	
20				1.9	B11-20	X				

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: -
Monument Type: --

Notes/Comments:
 DYC: Duwamish Yacht Club

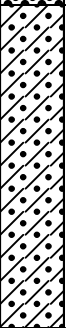


Project: Duwamish Yacht Property
Project Number: 1419-001
Logged by: JSL
Date Started: 06/20/19
Surface Conditions: Gravel
Location N/S: 252' S of SE corner of DYC office building
Location E/W: 8' E of SE corner of DYC office building
Reviewed by: CJT
Date Completed: 06/20/19

BORING LOG | B12 --

Site Address: 1801 South 93rd Street
 Seattle, Washington

 Water Depth At Time of Drilling 9.5 feet bgs
 Water Depth After Completion 11 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	Sample Analyzed	Group Symbol	Graphic	Lithologic Description (ASTM texture, density, color, odor, moisture, supplemental descriptors, estimated grain size distribution) Field-estimated grain size distribution by volume (% Fines - % Sand - % Gravel)	Well Detail/ Water Depth
0							SM		0.0-1.0 feet bgs: SAND with gravel, trace silt, gray to brown, no hydrocarbon odor, moist (5-75-20).	
			60				SP		1.0-5.0 feet bgs: Fine to medium SAND, trace gravel and silt, brown, no hydrocarbon odor, moist (5-90-5).	
5				1.6	B12-05		SP-SM		5.0-10.0 feet bgs: Fine to medium SAND with small inclusions of gray silt, brown, no hydrocarbon odor, moist to wet (10-90-0).	
			60							
10				1.0	B12-10	X	SP		10.0-15.0 feet bgs: Fine to medium SAND, trace silt, brown, mothball-like odor, wet (5-95-0).	
			50						2" layer of angular to subangular fine gravel at 12 feet bgs.	
				4.8	B12-15	X			4" piece of wood with moderate mothball odor at 14.5 feet bgs.	
15									15.0-20.0 feet bgs: No recovery.	
			0							
20									Boring terminated at 20 feet bgs. Reconnaissance groundwater sample B12-20190620 collected from temporary well screened from 10 feet to 20 feet. Borehole abandoned and backfilled with bentonite.	

Drilling Co./Driller: ESN/Cole
Drilling Equipment: Push probe
Sampler Type: Core barrel plastic sleeve
Hammer Type/Weight: -- lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: --/-- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:
 DYC: Duwamish Yacht Club

ATTACHMENT E
LABORATORY ANALYTICAL REPORTS

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

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July 1, 2019

Travis Zandi, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Zandi:

Included are the results from the testing of material submitted on June 21, 2019 from the SOU_1419-001_ 20190621, F&BI 906443 project. There are 45 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Jonathan Loeffler
SOU0701R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 21, 2019 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1419-001_ 20190621, F&BI 906443 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
906443 -01	B08-20190619
906443 -02	B07-20190619
906443 -03	B05-20190619
906443 -04	B04-20190620
906443 -05	B02-20190620
906443 -06	B01-20190620
906443 -07	B12-20190620
906443 -08	B09-20190620

A 6020A internal standard failed the acceptance criteria for samples B08-20190619 and B07-20190619. The samples were diluted and reanalyzed with acceptable results. Both data sets were reported.

Lead in the 6020A matrix spike and matrix spike duplicate failed the acceptance criteria. The laboratory control sample passed the acceptance criteria, therefore the results were due to matrix effect.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

Date Extracted: 06/24/19

Date Analyzed: 06/24/19

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 51-134)
B07-20190619 906443-02	<100	85
B05-20190619 906443-03	<100	84
Method Blank 09-1413 MB	<100	118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

Date Extracted: 06/24/19

Date Analyzed: 06/24/19

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
B08-20190619 906443-01	<1	<1	<1	<3	<100	89
B04-20190620 906443-04	<1	<1	<1	<3	<100	83
B02-20190620 906443-05	<1	<1	<1	<3	<100	82
B01-20190620 906443-06	<1	<1	<1	<3	<100	84
B12-20190620 906443-07	<1	<1	<1	<3	200	86
B09-20190620 906443-08	<1	<1	<1	<3	<100	88
Method Blank 09-1413 MB	<1	<1	<1	<3	<100	116

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

Date Extracted: 06/24/19

Date Analyzed: 06/24/19

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
B08-20190619 906443-01	120 x	<250	107
B07-20190619 906443-02	190 x	<250	100
B05-20190619 906443-03	100 x	<250	95
B04-20190620 906443-04	320 x	<250	106
B02-20190620 906443-05	<50	<250	ip
B01-20190620 906443-06	130 x	<250	103
B12-20190620 906443-07	2,200 x	<250	ip
B09-20190620 906443-08	140 x	<250	110
Method Blank 09-1478 MB	<50	<250	118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B08-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-01
Date Analyzed:	06/24/19	Data File:	906443-01.129
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	11.2
Cadmium	<1
Chromium	23.2 J
Lead	3.96
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B08-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-01 x10
Date Analyzed:	06/25/19	Data File:	906443-01 x10.059
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Chromium	27.7
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B07-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-02
Date Analyzed:	06/24/19	Data File:	906443-02.130
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	8.67
Cadmium	<1
Chromium	11.2 J
Lead	1.87
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B07-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-02 x10
Date Analyzed:	06/25/19	Data File:	906443-02 x10.060
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Chromium	13.9
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B05-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-03
Date Analyzed:	06/24/19	Data File:	906443-03.131
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	30.6
Cadmium	<1
Chromium	5.85
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B04-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-04
Date Analyzed:	06/24/19	Data File:	906443-04.142
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	18.1
Cadmium	<1
Chromium	12.3
Lead	1.31
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B02-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-05
Date Analyzed:	06/24/19	Data File:	906443-05.143
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	17.6
Cadmium	1.06
Chromium	36.9
Lead	21.0
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B01-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-06
Date Analyzed:	06/24/19	Data File:	906443-06.144
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	7.40
Cadmium	<1
Chromium	11.6
Lead	1.66
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B12-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-07
Date Analyzed:	06/24/19	Data File:	906443-07.145
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	7.47
Cadmium	<1
Chromium	11.7
Lead	13.9
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B09-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-08
Date Analyzed:	06/24/19	Data File:	906443-08.146
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	9.01
Cadmium	<1
Chromium	12.0
Lead	1.35
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	I9-389 mb
Date Analyzed:	06/24/19	Data File:	I9-389 mb.189
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: B07-20190619	Client: SoundEarth Strategies
Date Received: 06/21/19	Project: SOU_1419-001_ 20190621
Date Extracted: 06/24/19	Lab ID: 906443-02
Date Analyzed: 06/24/19	Data File: 062411.D
Matrix: Water	Instrument: GCMS4
Units: ug/L (ppb)	Operator: MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	95	63	127
4-Bromofluorobenzene	95	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B05-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-03
Date Analyzed:	06/24/19	Data File:	062412.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	97	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	09-1494 mb
Date Analyzed:	06/24/19	Data File:	062410.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	98	63	127
4-Bromofluorobenzene	97	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B08-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-01 1/2
Date Analyzed:	06/26/19	Data File:	062612.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	31	160
Benzo(a)anthracene-d12	90	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
Benz(a)anthracene	<0.04
Chrysene	<0.04
Benzo(a)pyrene	<0.04
Benzo(b)fluoranthene	<0.04
Benzo(k)fluoranthene	<0.04
Indeno(1,2,3-cd)pyrene	<0.04
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B07-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-02 1/2
Date Analyzed:	06/26/19	Data File:	062613.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	94	31	160
Benzo(a)anthracene-d12	98	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
Benz(a)anthracene	<0.04
Chrysene	<0.04
Benzo(a)pyrene	<0.04
Benzo(b)fluoranthene	<0.04
Benzo(k)fluoranthene	<0.04
Indeno(1,2,3-cd)pyrene	<0.04
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B05-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-03 1/2
Date Analyzed:	06/26/19	Data File:	062614.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	31	160
Benzo(a)anthracene-d12	96	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
Benz(a)anthracene	<0.04
Chrysene	<0.04
Benzo(a)pyrene	<0.04
Benzo(b)fluoranthene	<0.04
Benzo(k)fluoranthene	<0.04
Indeno(1,2,3-cd)pyrene	<0.04
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B04-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-04 1/2
Date Analyzed:	06/26/19	Data File:	062615.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	31	160
Benzo(a)anthracene-d12	95	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	0.066
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
Benz(a)anthracene	<0.04
Chrysene	<0.04
Benzo(a)pyrene	<0.04
Benzo(b)fluoranthene	<0.04
Benzo(k)fluoranthene	<0.04
Indeno(1,2,3-cd)pyrene	<0.04
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B02-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-05 1/2
Date Analyzed:	06/26/19	Data File:	062616.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	88	31	160
Benzo(a)anthracene-d12	92	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
Benz(a)anthracene	<0.04
Chrysene	<0.04
Benzo(a)pyrene	<0.04
Benzo(b)fluoranthene	<0.04
Benzo(k)fluoranthene	<0.04
Indeno(1,2,3-cd)pyrene	<0.04
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B01-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-06 1/2
Date Analyzed:	06/26/19	Data File:	062617.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	31	160
Benzo(a)anthracene-d12	93	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
Benz(a)anthracene	<0.04
Chrysene	<0.04
Benzo(a)pyrene	<0.04
Benzo(b)fluoranthene	<0.04
Benzo(k)fluoranthene	<0.04
Indeno(1,2,3-cd)pyrene	<0.04
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B12-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-07 1/2
Date Analyzed:	06/26/19	Data File:	062618.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	88	31	160
Benzo(a)anthracene-d12	62	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	220 ve
Acenaphthylene	0.63
Acenaphthene	130 ve
Fluorene	59 ve
Phenanthrene	72 ve
Anthracene	9.5
Fluoranthene	28 ve
Pyrene	21 ve
Benz(a)anthracene	2.0
Chrysene	1.5
Benzo(a)pyrene	0.40
Benzo(b)fluoranthene	0.60
Benzo(k)fluoranthene	0.19
Indeno(1,2,3-cd)pyrene	0.066
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	0.048

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B12-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-07 1/200
Date Analyzed:	06/27/19	Data File:	062706.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	64 d	31	160
Benzo(a)anthracene-d12	46 d	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	230
Acenaphthylene	<4
Acenaphthene	130
Fluorene	55
Phenanthrene	72
Anthracene	5.2
Fluoranthene	24
Pyrene	19
Benz(a)anthracene	<4
Chrysene	<4
Benzo(a)pyrene	<4
Benzo(b)fluoranthene	<4
Benzo(k)fluoranthene	<4
Indeno(1,2,3-cd)pyrene	<4
Dibenz(a,h)anthracene	<4
Benzo(g,h,i)perylene	<4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B09-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906443-08 1/2
Date Analyzed:	06/26/19	Data File:	062619.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	31	160
Benzo(a)anthracene-d12	96	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.4
Acenaphthylene	<0.04
Acenaphthene	<0.04
Fluorene	<0.04
Phenanthrene	<0.04
Anthracene	<0.04
Fluoranthene	<0.04
Pyrene	<0.04
Benz(a)anthracene	<0.04
Chrysene	<0.04
Benzo(a)pyrene	<0.04
Benzo(b)fluoranthene	<0.04
Benzo(k)fluoranthene	<0.04
Indeno(1,2,3-cd)pyrene	<0.04
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.04

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	09-1481 mb2
Date Analyzed:	06/26/19	Data File:	062606.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	83	31	160
Benzo(a)anthracene-d12	94	25	165

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.2
Acenaphthylene	<0.02
Acenaphthene	<0.02
Fluorene	<0.02
Phenanthrene	<0.02
Anthracene	<0.02
Fluoranthene	<0.02
Pyrene	<0.02
Benz(a)anthracene	<0.02
Chrysene	<0.02
Benzo(a)pyrene	<0.02
Benzo(b)fluoranthene	<0.02
Benzo(k)fluoranthene	<0.02
Indeno(1,2,3-cd)pyrene	<0.02
Dibenz(a,h)anthracene	<0.02
Benzo(g,h,i)perylene	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B08-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-01
Date Analyzed:	06/24/19	Data File:	062425.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	55	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B07-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-02
Date Analyzed:	06/24/19	Data File:	062426.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	67	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B05-20190619	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-03
Date Analyzed:	06/24/19	Data File:	062427.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	65	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B04-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-04
Date Analyzed:	06/24/19	Data File:	062428.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	46	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B02-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-05
Date Analyzed:	06/24/19	Data File:	062429.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	21 ip	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B01-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-06
Date Analyzed:	06/24/19	Data File:	062430.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	60	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B12-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-07
Date Analyzed:	06/24/19	Data File:	062431.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	53	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B09-20190620	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906443-08
Date Analyzed:	06/24/19	Data File:	062432.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	59	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	09-1477 mb 1/0.5
Date Analyzed:	06/24/19	Data File:	062406.D
Matrix:	Water	Instrument:	GC9
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	65	27	106

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01
Aroclor 1232	<0.01
Aroclor 1016	<0.01
Aroclor 1242	<0.01
Aroclor 1248	<0.01
Aroclor 1254	<0.01
Aroclor 1260	<0.01
Aroclor 1262	<0.01
Aroclor 1268	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 906187-15 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	110	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	109	65-118
Toluene	ug/L (ppb)	50	113	72-122
Ethylbenzene	ug/L (ppb)	50	117	73-126
Xylenes	ug/L (ppb)	150	113	74-118
Gasoline	ug/L (ppb)	1,000	89	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	96	104	58-134	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 906443-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	30.6	90	96	75-125	6
Cadmium	ug/L (ppb)	5	<1	95	100	75-125	5
Chromium	ug/L (ppb)	20	5.85	97	101	75-125	4
Lead	ug/L (ppb)	10	<1	72 vo	74 vo	75-125	3
Mercury	ug/L (ppb)	5	<1	76	80	75-125	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	97	80-120
Cadmium	ug/L (ppb)	5	94	80-120
Chromium	ug/L (ppb)	20	98	80-120
Lead	ug/L (ppb)	10	101	80-120
Mercury	ug/L (ppb)	5	96	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 906443-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<1	101	10-172
Chloromethane	ug/L (ppb)	50	<10	92	25-166
Vinyl chloride	ug/L (ppb)	50	<0.2	102	36-166
Bromomethane	ug/L (ppb)	50	<1	99	47-169
Chloroethane	ug/L (ppb)	50	<1	98	46-160
Trichlorofluoromethane	ug/L (ppb)	50	<1	105	44-165
Acetone	ug/L (ppb)	250	<50	55	10-182
1,1-Dichloroethene	ug/L (ppb)	50	<1	101	60-136
Hexane	ug/L (ppb)	50	<1	102	52-150
Methylene chloride	ug/L (ppb)	50	<5	100	67-132
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	101	74-127
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	102	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	101	70-128
2,2-Dichloropropane	ug/L (ppb)	50	<1	103	36-154
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	104	71-127
Chloroform	ug/L (ppb)	50	<1	101	65-132
2-Butanone (MEK)	ug/L (ppb)	250	<10	77	10-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	99	48-149
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	104	60-146
1,1-Dichloropropene	ug/L (ppb)	50	<1	102	69-133
Carbon tetrachloride	ug/L (ppb)	50	<1	103	56-152
Benzene	ug/L (ppb)	50	<0.35	100	76-125
Trichloroethene	ug/L (ppb)	50	<1	98	66-135
1,2-Dichloropropane	ug/L (ppb)	50	<1	99	78-125
Bromodichloromethane	ug/L (ppb)	50	<1	101	61-150
Dibromomethane	ug/L (ppb)	50	<1	105	66-141
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	109	10-185
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	104	72-132
Toluene	ug/L (ppb)	50	<1	94	76-122
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	100	76-130
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	103	68-131
2-Hexanone	ug/L (ppb)	250	<10	100	10-185
1,3-Dichloropropane	ug/L (ppb)	50	<1	102	71-128
Tetrachloroethene	ug/L (ppb)	50	<1	101	10-226
Dibromochloromethane	ug/L (ppb)	50	<1	104	70-139
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	103	69-134
Chlorobenzene	ug/L (ppb)	50	<1	102	77-122
Ethylbenzene	ug/L (ppb)	50	<1	99	69-135
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	108	73-137
m,p-Xylene	ug/L (ppb)	100	<2	101	69-135
o-Xylene	ug/L (ppb)	50	<1	100	60-140
Styrene	ug/L (ppb)	50	<1	103	71-133
Isopropylbenzene	ug/L (ppb)	50	<1	102	65-142
Bromoform	ug/L (ppb)	50	<1	104	65-142
n-Propylbenzene	ug/L (ppb)	50	<1	102	58-144
Bromobenzene	ug/L (ppb)	50	<1	102	75-124
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	103	66-137
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	108	51-154
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	104	53-150
2-Chlorotoluene	ug/L (ppb)	50	<1	101	66-127
4-Chlorotoluene	ug/L (ppb)	50	<1	101	65-130
tert-Butylbenzene	ug/L (ppb)	50	<1	102	65-137
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	102	59-146
sec-Butylbenzene	ug/L (ppb)	50	<1	102	64-140
p-Isopropyltoluene	ug/L (ppb)	50	<1	103	65-141
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	103	72-123
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	98	69-126
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	102	69-128
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	108	32-164
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	105	66-136
Hexachlorobutadiene	ug/L (ppb)	50	<1	102	60-143
Naphthalene	ug/L (ppb)	50	<1	108	44-164
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	106	69-148

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	111	105	25-158	6
Chloromethane	ug/L (ppb)	50	105	100	45-156	5
Vinyl chloride	ug/L (ppb)	50	116	108	50-154	7
Bromomethane	ug/L (ppb)	50	108	103	55-143	5
Chloroethane	ug/L (ppb)	50	108	103	58-146	5
Trichlorofluoromethane	ug/L (ppb)	250	114	110	50-150	4
Acetone	ug/L (ppb)	250	58	55	53-131	5
1,1-Dichloroethene	ug/L (ppb)	50	107	102	67-136	5
Hexane	ug/L (ppb)	50	104	106	57-137	2
Methylene chloride	ug/L (ppb)	50	108	103	39-148	5
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	111	106	64-147	5
trans-1,2-Dichloroethene	ug/L (ppb)	50	110	105	68-128	5
1,1-Dichloroethane	ug/L (ppb)	50	106	104	79-121	2
2,2-Dichloropropane	ug/L (ppb)	50	126	120	55-143	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	110	107	80-123	3
Chloroform	ug/L (ppb)	50	105	104	80-121	1
2-Butanone (MEK)	ug/L (ppb)	250	77	79	57-149	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	98	100	73-132	2
1,1,1-Trichloroethane	ug/L (ppb)	50	109	107	81-125	2
1,1-Dichloropropene	ug/L (ppb)	50	103	104	77-129	1
Carbon tetrachloride	ug/L (ppb)	50	109	106	75-158	3
Benzene	ug/L (ppb)	50	100	101	69-134	1
Trichloroethene	ug/L (ppb)	50	97	100	79-113	3
1,2-Dichloropropane	ug/L (ppb)	50	98	102	77-123	4
Bromodichloromethane	ug/L (ppb)	50	101	104	81-133	3
Dibromomethane	ug/L (ppb)	50	104	106	82-125	2
4-Methyl-2-pentanone	ug/L (ppb)	250	105	106	65-138	1
cis-1,3-Dichloropropene	ug/L (ppb)	50	102	108	82-132	6
Toluene	ug/L (ppb)	50	96	98	72-122	2
trans-1,3-Dichloropropene	ug/L (ppb)	50	100	107	80-136	7
1,1,2-Trichloroethane	ug/L (ppb)	50	100	104	75-124	4
2-Hexanone	ug/L (ppb)	250	94	100	60-136	6
1,3-Dichloropropene	ug/L (ppb)	50	98	102	76-126	4
Tetrachloroethene	ug/L (ppb)	50	105	106	76-121	1
Dibromochloromethane	ug/L (ppb)	50	105	109	84-133	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	98	104	82-115	6
Chlorobenzene	ug/L (ppb)	50	102	105	83-114	3
Ethylbenzene	ug/L (ppb)	50	101	103	77-124	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	115	113	84-127	2
m,p-Xylene	ug/L (ppb)	100	102	104	81-112	2
o-Xylene	ug/L (ppb)	50	106	105	81-121	1
Styrene	ug/L (ppb)	50	103	106	84-119	3
Isopropylbenzene	ug/L (ppb)	50	109	107	80-117	2
Bromoform	ug/L (ppb)	50	109	112	74-136	3
n-Propylbenzene	ug/L (ppb)	50	106	106	74-126	0
Bromobenzene	ug/L (ppb)	50	103	105	80-121	2
1,3,5-Trimethylbenzene	ug/L (ppb)	50	110	107	78-123	3
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	111	111	66-126	0
1,2,3-Trichloropropane	ug/L (ppb)	50	105	106	67-124	1
2-Chlorotoluene	ug/L (ppb)	50	107	106	77-127	1
4-Chlorotoluene	ug/L (ppb)	50	103	105	78-128	2
tert-Butylbenzene	ug/L (ppb)	50	109	107	80-123	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	109	107	79-122	2
sec-Butylbenzene	ug/L (ppb)	50	110	108	80-116	2
p-Isopropyltoluene	ug/L (ppb)	50	110	108	81-123	2
1,3-Dichlorobenzene	ug/L (ppb)	50	105	106	83-113	1
1,4-Dichlorobenzene	ug/L (ppb)	50	100	101	83-107	1
1,2-Dichlorobenzene	ug/L (ppb)	50	108	106	84-112	2
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	121	114	57-141	6
1,2,4-Trichlorobenzene	ug/L (ppb)	50	118	112	72-130	5
Hexachlorobutadiene	ug/L (ppb)	50	115	109	53-141	5
Naphthalene	ug/L (ppb)	50	123	115	64-133	7
1,2,3-Trichlorobenzene	ug/L (ppb)	50	120	111	65-136	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR PAHS BY EPA METHOD 8270D SIM**

Laboratory Code: Laboratory Control Sample 1/0.25

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	66	66	57-114	0
Acenaphthylene	ug/L (ppb)	1	71	73	65-119	3
Acenaphthene	ug/L (ppb)	1	72	73	66-118	1
Fluorene	ug/L (ppb)	1	74	77	64-125	4
Phenanthrene	ug/L (ppb)	1	77	79	67-120	3
Anthracene	ug/L (ppb)	1	81	84	65-122	4
Fluoranthene	ug/L (ppb)	1	86	90	65-127	5
Pyrene	ug/L (ppb)	1	78	80	62-130	3
Benz(a)anthracene	ug/L (ppb)	1	84	87	60-118	4
Chrysene	ug/L (ppb)	1	82	84	66-125	2
Benzo(b)fluoranthene	ug/L (ppb)	1	90	94	55-135	4
Benzo(k)fluoranthene	ug/L (ppb)	1	81	85	62-125	5
Benzo(a)pyrene	ug/L (ppb)	1	84	87	58-127	4
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	77	81	36-142	5
Dibenz(a,h)anthracene	ug/L (ppb)	1	71	79	37-133	11
Benzo(g,h,i)perylene	ug/L (ppb)	1	70	74	34-135	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906443

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: Laboratory Control Sample 1/0.5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.13	65	64	25-165	2
Aroclor 1260	ug/L (ppb)	0.13	73	74	25-163	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

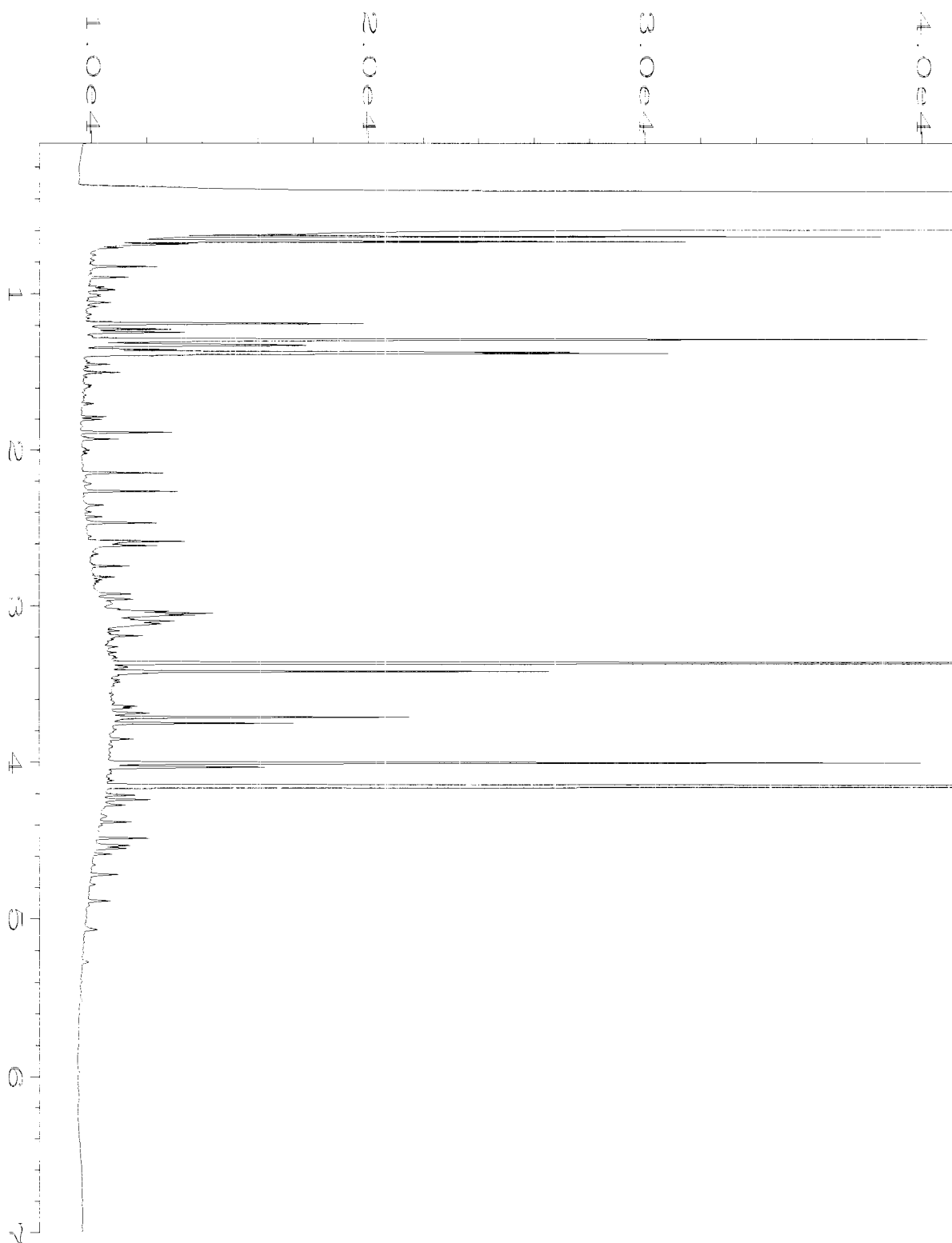
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

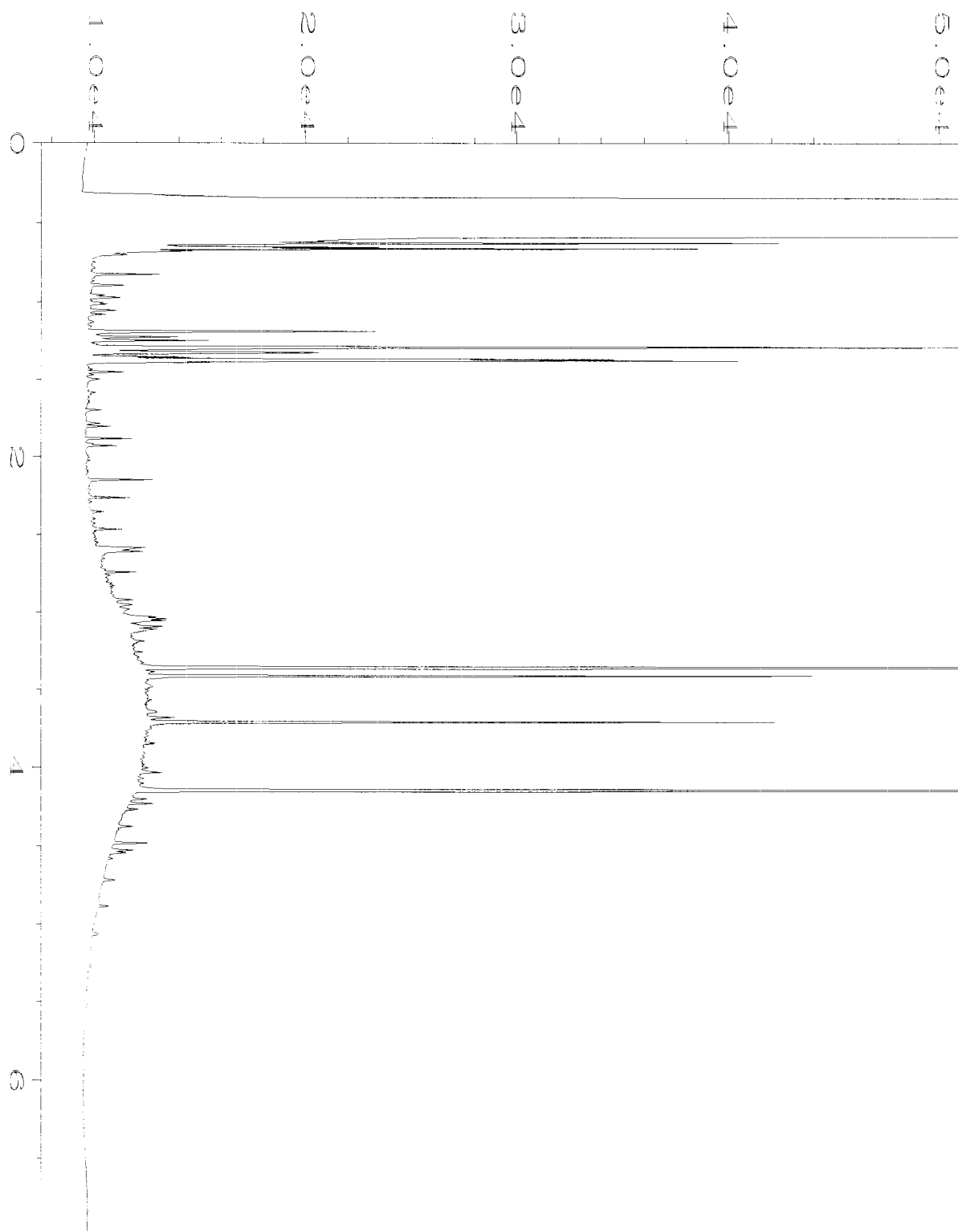
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

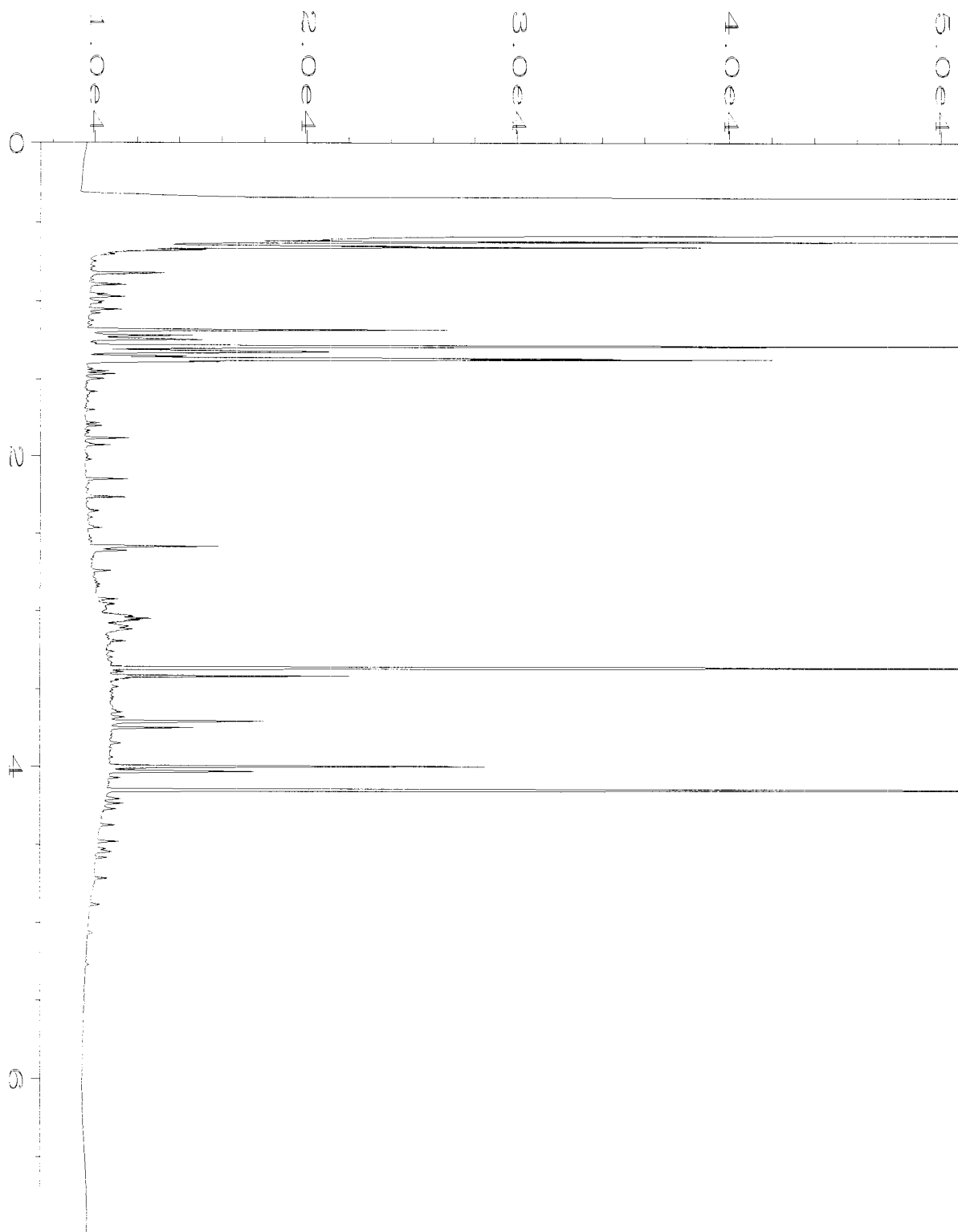
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



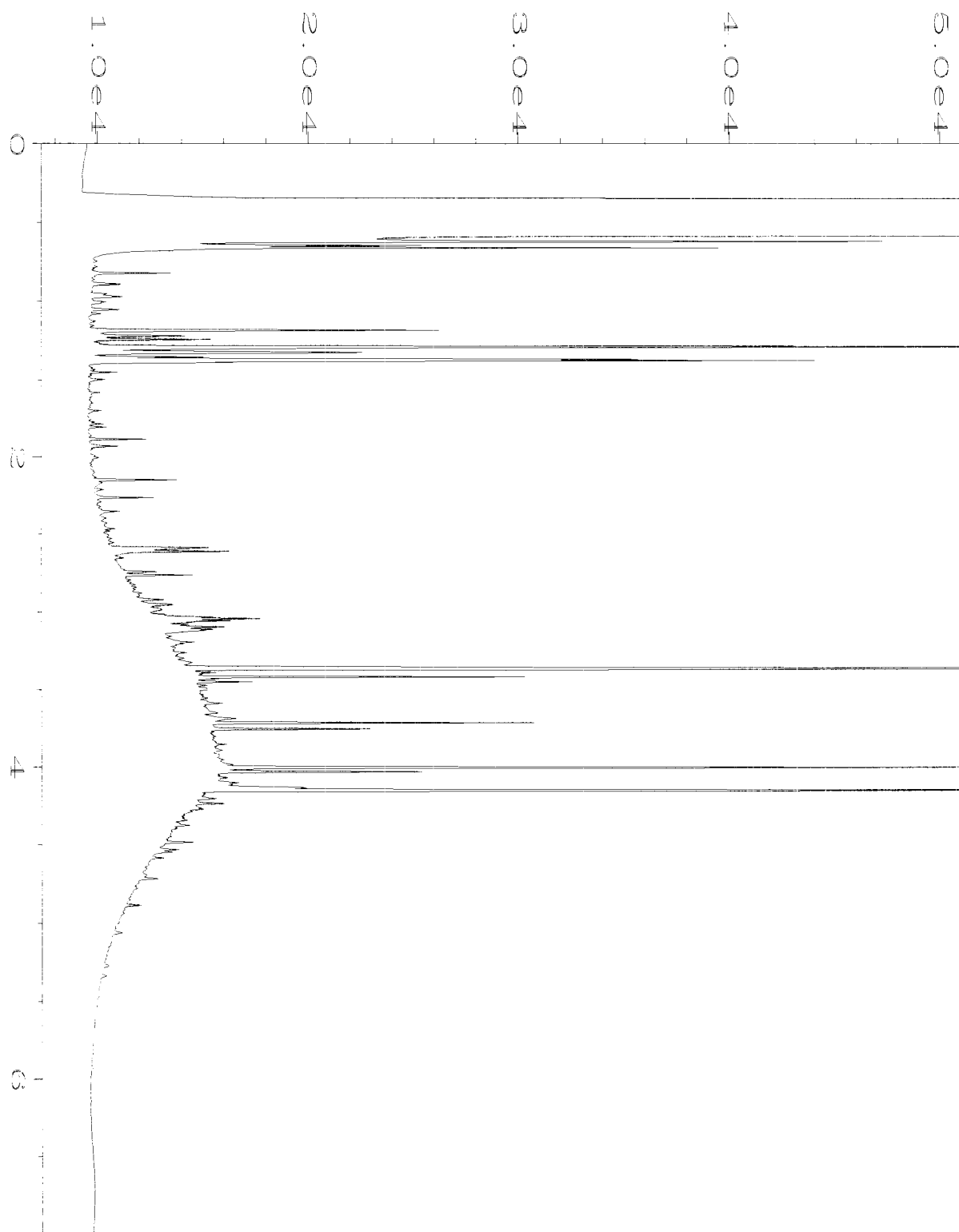
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Operator	: TL	Vial Number	: 12
Instrument	: GC6	Injection Number	: 1
Sample Name	: 906443-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 01:30 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:03 AM		



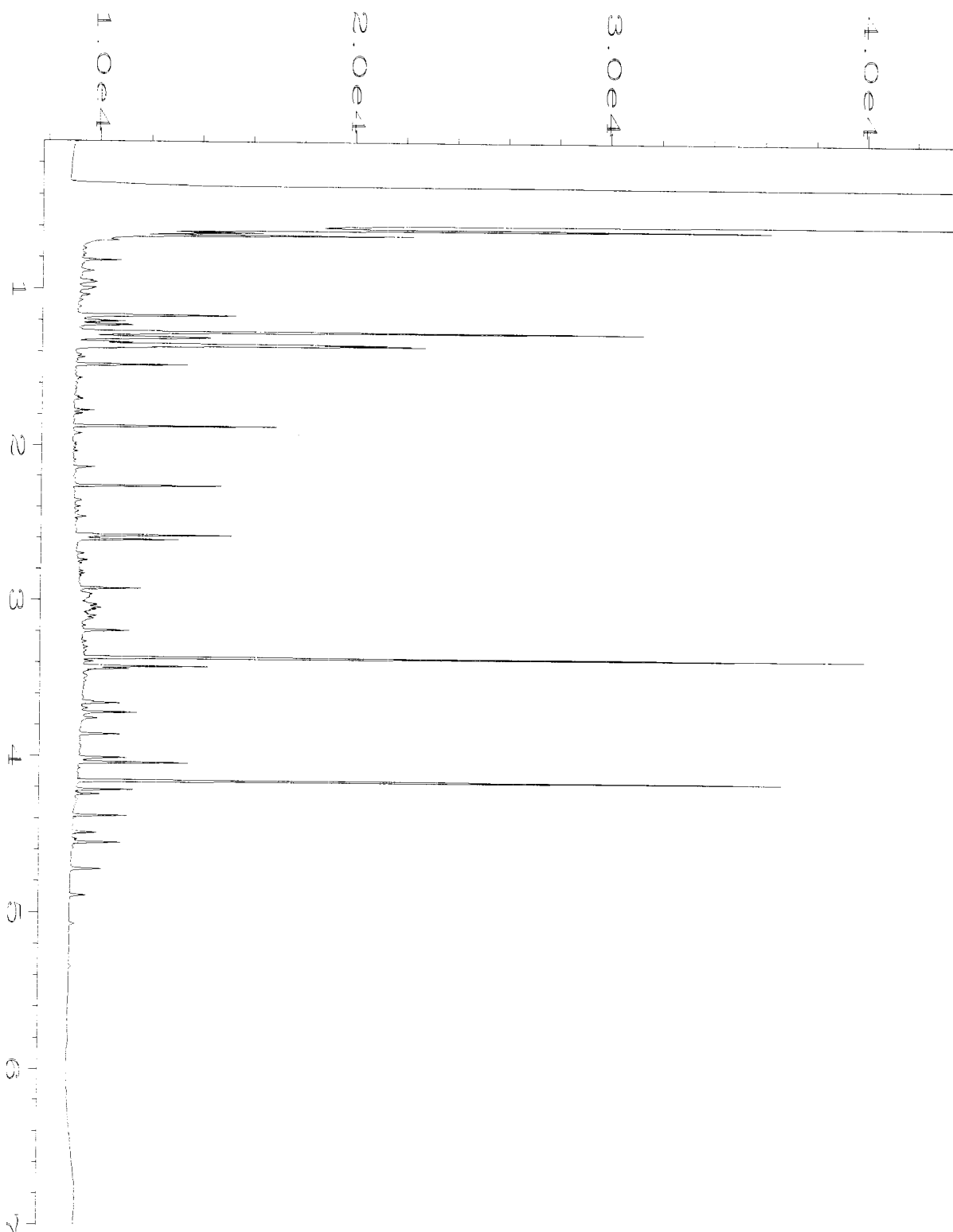
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Instrument	: GC6	Injection Number	: 1
Sample Name	: 906443-02	Sequence Line	: 3
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Acquired on	: 24 Jun 19 01:41 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:03 AM		



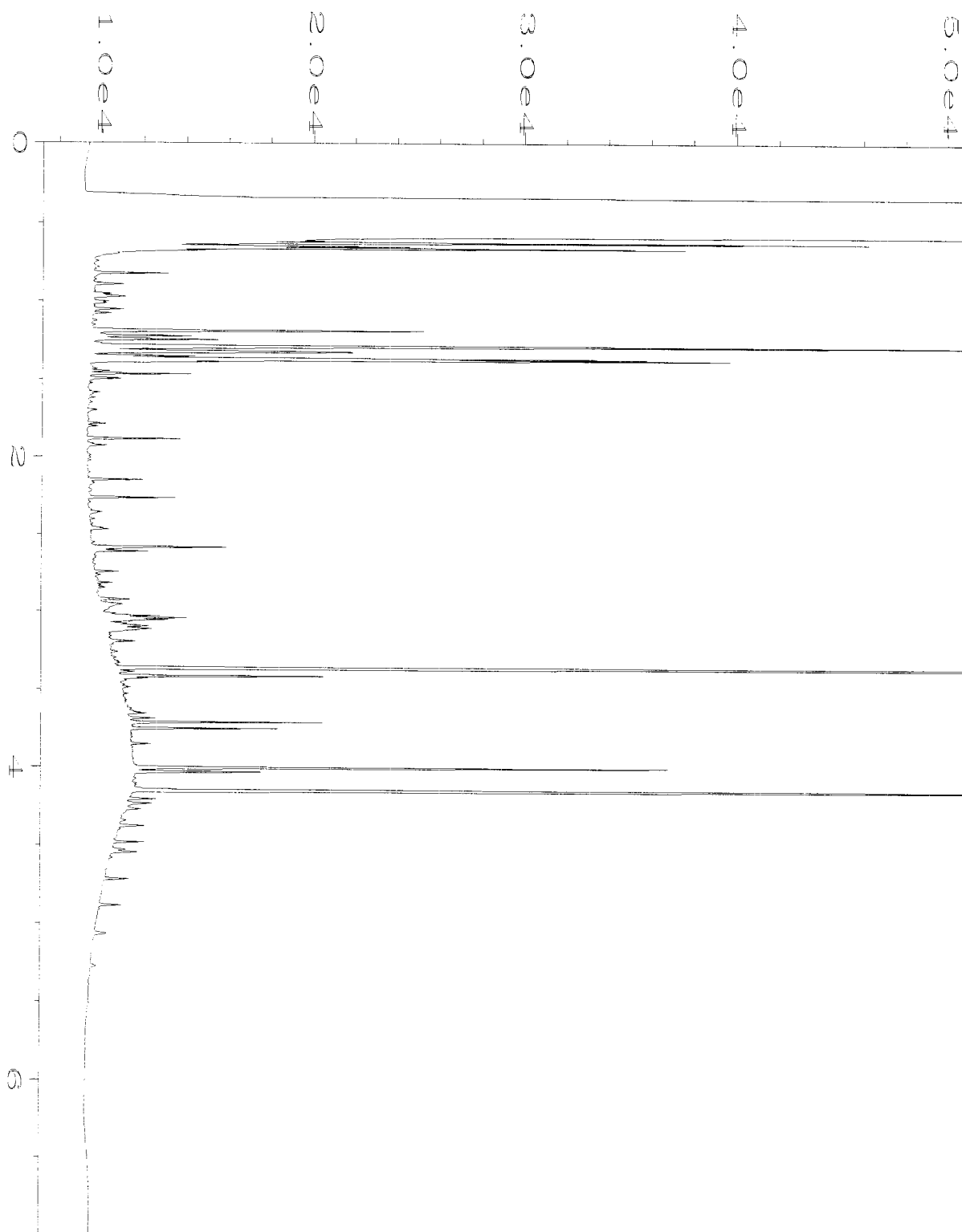
Data File Name	: C:\HPCHEM\6\DATA\06-24-19\014F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 14
Instrument	: GC6	Injection Number	: 1
Sample Name	: 906443-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 01:52 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:03 AM		



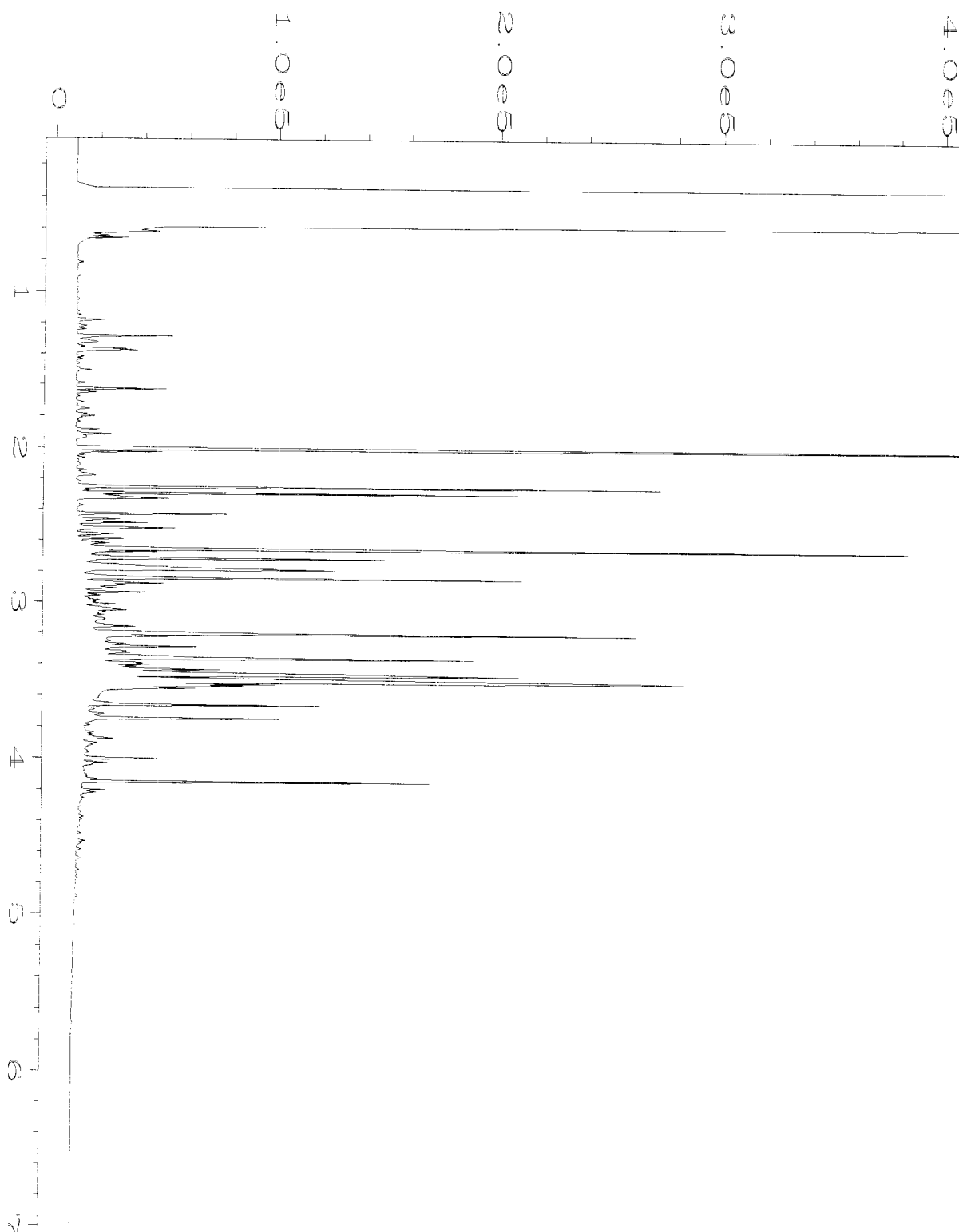
Data File Name	: C:\HPCHEM\6\DATA\06-24-19\015F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 15
Instrument	: GC6	Injection Number	: 1
Sample Name	: 906443-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 02:03 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:03 AM		



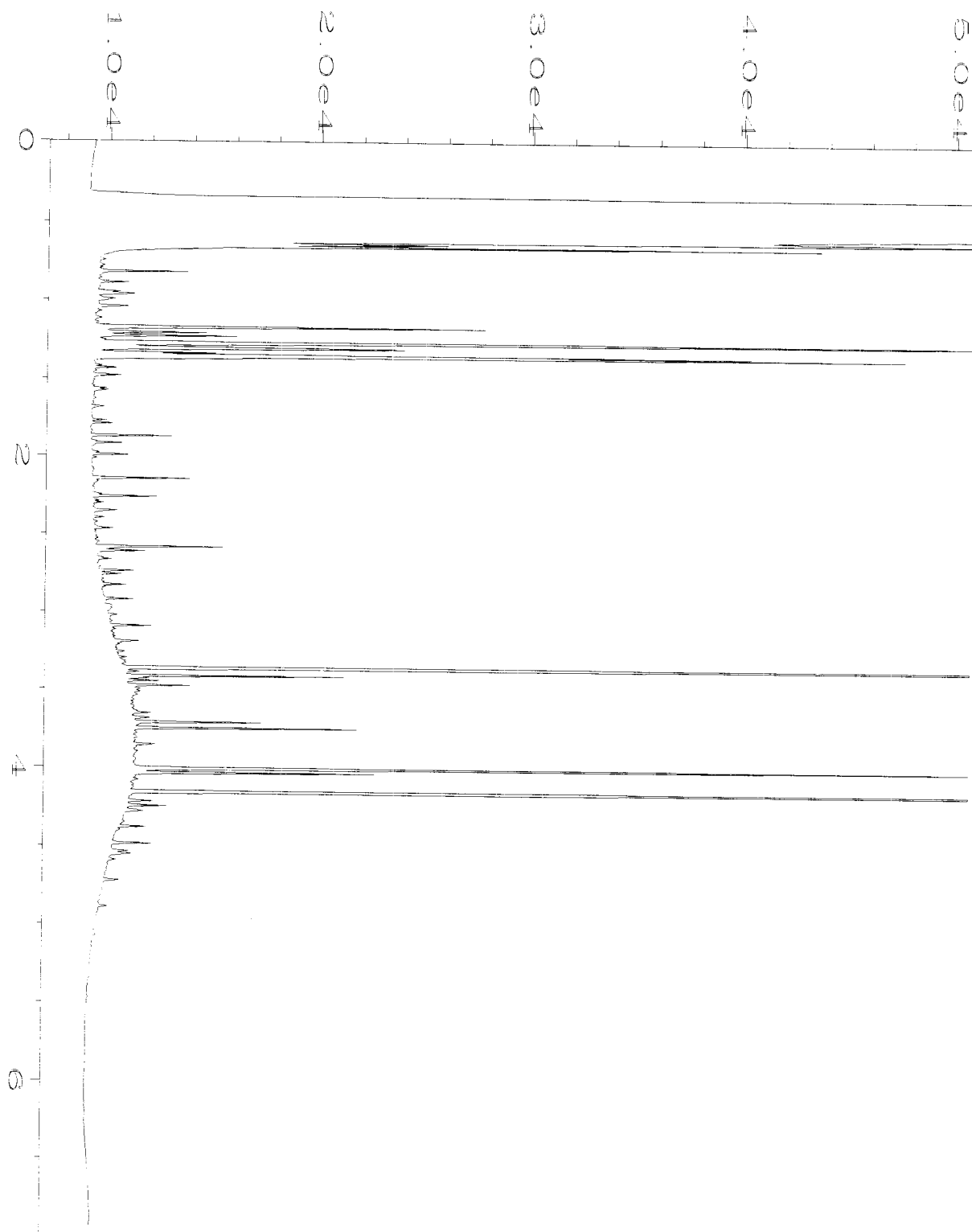
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Operator	: TL	Vial Number	: 16
Instrument	: GC6	Injection Number	: 1
Sample Name	: 906443-05	Sequence Line	: 5
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 03:34 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:03 AM		



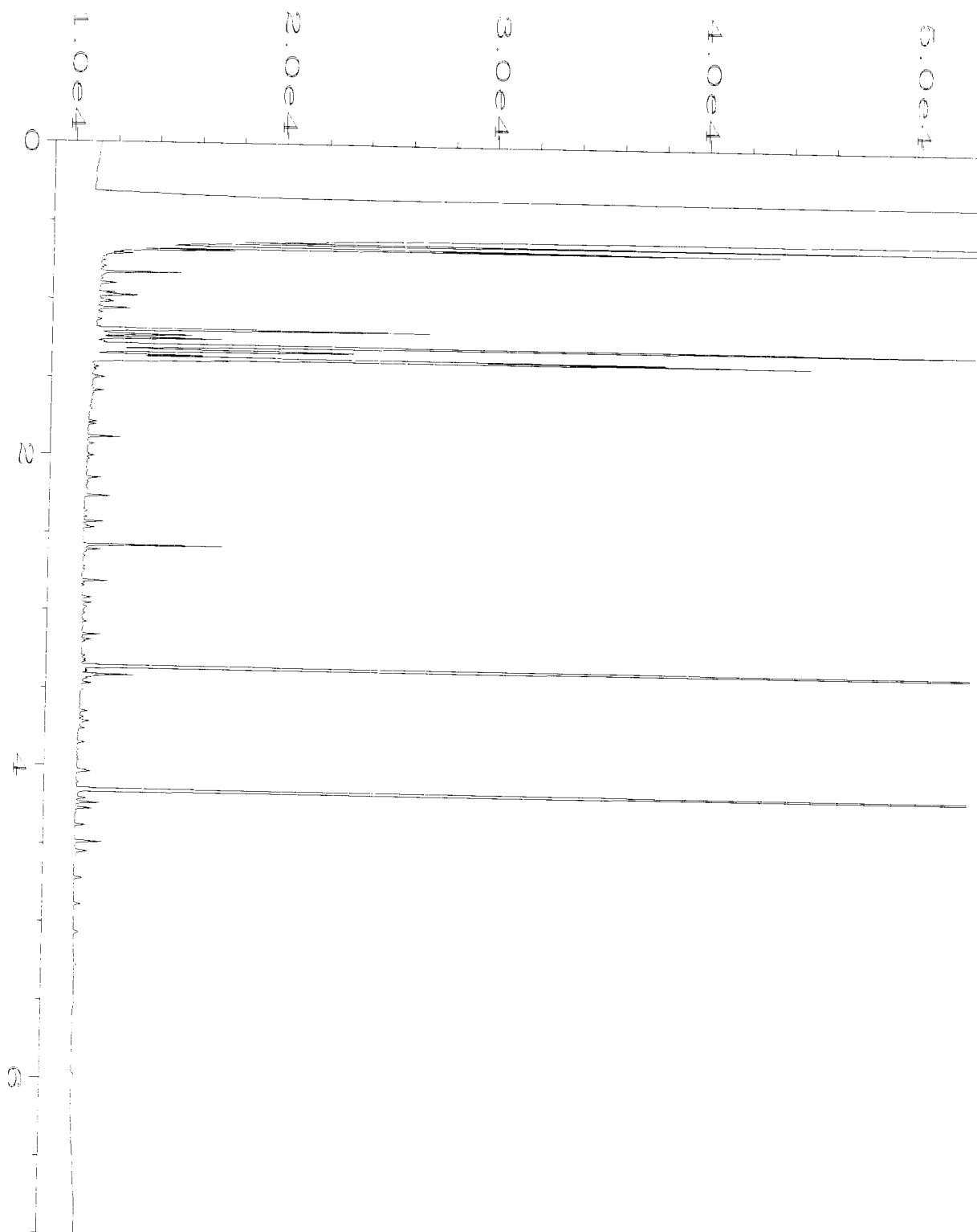
Data File Name	: C:\HPCHEM\6\DATA\06-24-19\017F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 17
Instrument	: GC6	Injection Number	: 1
Sample Name	: 906443-06	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 02:26 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:04 AM		



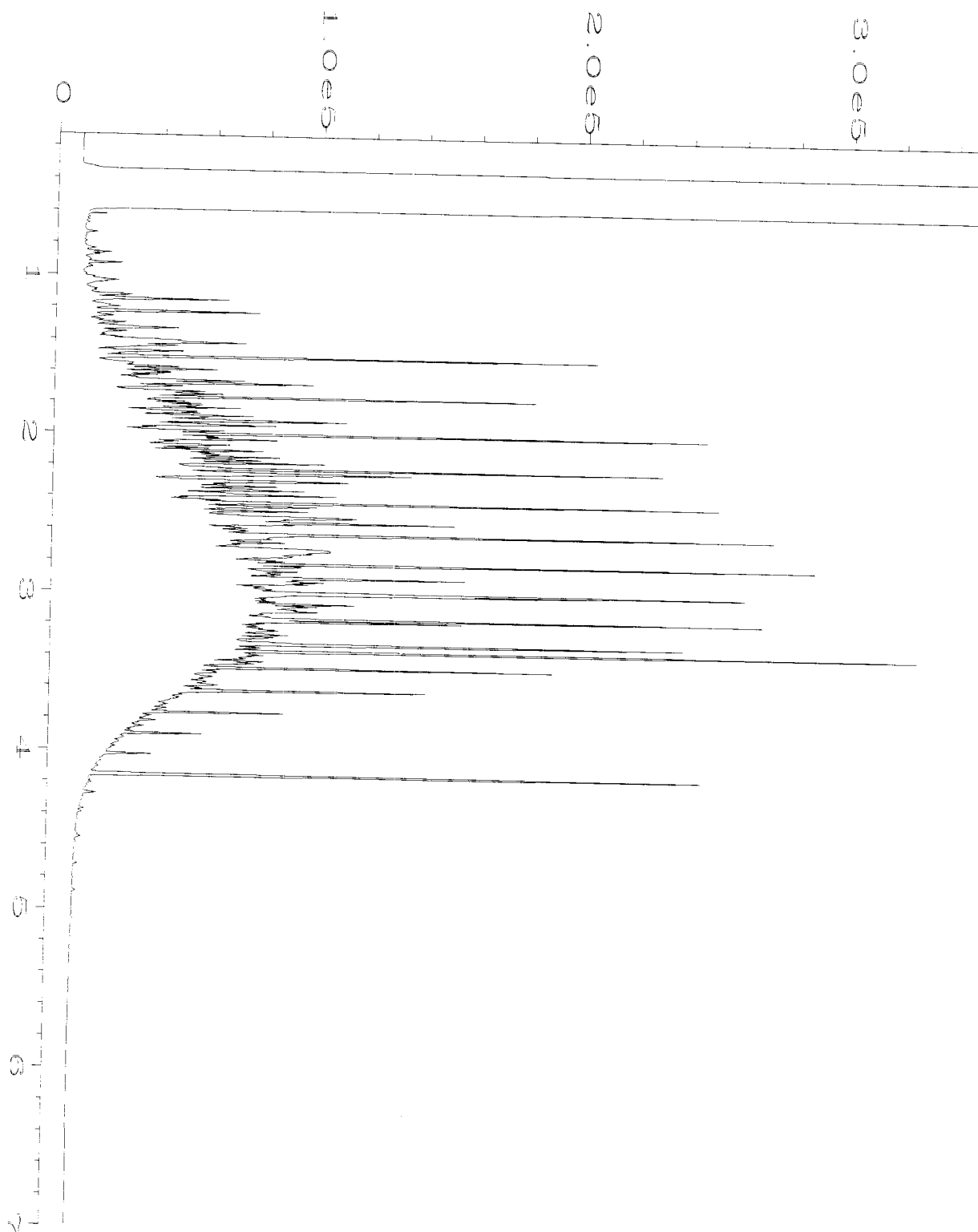
Data File Name	: C:\HPCHEM\6\DATA\06-24-19\018F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 18
Instrument	: GC6	Injection Number	: 1
Sample Name	: 906443-07	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 02:37 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:04 AM		



Data File Name	: C:\HPCHEM\6\DATA\06-24-19\019F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 19
Instrument	: GC6	Injection Number	: 1
Sample Name	: 906443-08	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 02:48 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:04 AM		



Data File Name	: C:\HPCHEM\6\DATA\06-24-19\007F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 7
Instrument	: GC6	Injection Number	: 1
Sample Name	: 09-1478 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 12:34 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:02 AM		



Data File Name	: C:\HPCHEM\6\DATA\06-24-19\005F0401.D	Page Number	: 1
Operator	: TL	Vial Number	: 5
Instrument	: GC6	Injection Number	: 1
Sample Name	: 1000 Dx 57-78B	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 03:14 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 10:05 AM		

906443

Send Report To: Travis Zandi; Jonathan LoefflerCompany: SoundEarth Strategies, Inc.Address: 2811 Fairview Avenue East, Suite 2000City, State, ZIP: Seattle, Washington 98102Phone #: (206) 306-1900 Fax #: (206) 306-1907

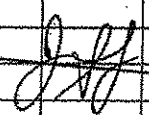
SAMPLE CHAIN OF CUSTODY ME 06-21-19

SAMPLERS (signature): <u>[Signature]</u>	
PROJECT NAME/NO.: <u>DUWAMISH YACHT PROPERTY 1419-001</u>	PO #
REMARKS	GEMS Y / N

Page # 15 of 15

TURNAROUND TIME
Standard (2 Weeks)
 RUSH
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	DRPH/ORPH by NWTPH-Dx	VOCs by 826DC	PCBs by 8082A	PAHs by 8270D	6020 by 8082C MTCA 5 Metals by 1631E	HQPH STEY 1, 6021S	DATE 6/21/19 ME	Notes
B08-20190619	B08	—	01A	6/19/19	1100	WATER	8	X	X		X	X	X	(X)		
B07-20190619	B07	—	02A	6/19/19	1230	WATER	11	X	X	X	X	X	X			
B05-20190619	B05	—	03T	6/19/19	1455	WATER	11	X	X	X	X	X	X			B05-20190619
B04-20190620	B04	—	04A	6/20/19	0920	WATER	8	X	X		X	X	X	(X)		
B02-20190620	B02	—	05T	6/20/19	1030	WATER	8	X	X		X	X	X	(X)		(X) per TZ
B01-20190620	B01	—	06	6/20/19	1130	WATER	8	X	X		X	X	X	(X)		6/21/19 ME
B12-20190620	B12	—	07	6/20/19	1320	WATER	8	X	X		X	X	X	(X)		
B09-20190620	B09	—	08	6/20/19	1640	WATER	8	X	X		X	X	X	(X)		
 6/20/19																
															Samples received at 3 °C	

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	JONATHAN LOEFFLER	SOUNDEARTH	6/21/19	0948
Received by: <u>[Signature]</u>	Andri	REDX	6/21/19	0948
Relinquished by:				
Received by: <u>[Signature]</u>	Nhan Phan	FBI	6/21/19	1030

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 3, 2019

Travis Zandi, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr Zandi:

Included are the results from the testing of material submitted on June 21, 2019 from the SOU_1419-001_ 20190621, F&BI 906444 project. There are 93 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Jonathan Loeffler
SOU0703R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 21, 2019 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_1419-001_ 20190621, F&BI 906444 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
906444 -01	B08-05
906444 -02	B08-10
906444 -03	B08-15
906444 -04	B08-20
906444 -05	B07-05
906444 -06	B07-10
906444 -07	B07-15
906444 -08	B07-20
906444 -09	B06-04
906444 -10	B06-09
906444 -11	B06-15
906444 -12	B06-20
906444 -13	B05-05
906444 -14	B05-10
906444 -15	B05-15
906444 -16	B05-20
906444 -17	B04-05
906444 -18	B04-10
906444 -19	B04-15
906444 -20	B04-20
906444 -21	B02-05
906444 -22	B02-10
906444 -23	B02-15
906444 -24	B02-20
906444 -25	B01-05
906444 -26	B01-10
906444 -27	B01-15
906444 -28	B01-20
906444 -29	B03-05
906444 -30	B03-10
906444 -31	B03-15
906444 -32	B03-20
906444 -33	B12-05
906444 -34	B12-10
906444 -35	B12-15

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (Continued)

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
906444 -36	B11-05
906444 -37	B11-10
906444 -38	B11-15
906444 -39	B11-20
906444 -40	B10-05
906444 -41	B10-10
906444 -42	B10-15
906444 -43	B10-20
906444 -44	B09-05
906444 -45	B09-10
906444 -46	B09-15
906444 -47	B09-20

A 6020B internal standard failed the acceptance criteria for several samples. The samples were diluted and reanalyzed with acceptable results. Both data sets were reported.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

Date Extracted: 06/25/19

Date Analyzed: 06/25/19

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
B08-05 906444-01	<0.02	<0.02	<0.02	<0.06	<5	89
B08-15 906444-03	<0.02	<0.02	<0.02	<0.06	<5	89
B07-05 906444-05	<0.02	<0.02	<0.02	<0.06	<5	91
B07-10 906444-06	<0.02	<0.02	<0.02	<0.06	<5	89
B06-04 906444-09	<0.02	<0.02	<0.02	<0.06	<5	90
B06-09 906444-10	<0.02	<0.02	<0.02	<0.06	<5	90
B05-05 906444-13	<0.02	<0.02	<0.02	<0.06	<5	91
B05-10 906444-14	<0.02	<0.02	<0.02	<0.06	<5	91
B12-10 906444-34	<0.02	<0.02	<0.02	<0.06	<5	89
B12-15 906444-35	<0.02	<0.02	<0.02	<0.06	<5	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

Date Extracted: 06/25/19

Date Analyzed: 06/25/19

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
B11-05 906444-36	<0.02	<0.02	<0.02	<0.06	<5	88
B11-20 906444-39	<0.02	<0.02	<0.02	<0.06	<5	89
B10-05 906444-40	<0.02	<0.02	<0.02	<0.06	<5	88
B10-10 906444-41	<0.02	<0.02	<0.02	<0.06	<5	88
B09-05 906444-44	<0.02	<0.02	<0.02	<0.06	<5	89
B09-10 906444-45	<0.02	<0.02	<0.02	<0.06	<5	87
Method Blank 09-1489 MB	<0.02	<0.02	<0.02	<0.06	<5	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

Date Extracted: 06/24/19

Date Analyzed: 06/24/19

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
B08-05 906444-01	<50	<250	89
B08-15 906444-03	<50	<250	89
B07-05 906444-05	<50	<250	90
B07-10 906444-06	<50	<250	88
B06-04 906444-09	<50	<250	88
B06-09 906444-10	<50	<250	91
B05-05 906444-13	<50	<250	91
B05-10 906444-14	<50	<250	96
B12-10 906444-34	<50	<250	92
B12-15 906444-35	93 x	<250	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

Date Extracted: 06/24/19

Date Analyzed: 06/24/19

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 48-168)
B11-05 906444-36	<50	<250	103
B11-20 906444-39	<50	<250	92
B10-05 906444-40	<50	<250	102
B10-10 906444-41	<50	<250	98
B09-05 906444-44	<50	<250	95
B09-10 906444-45	<50	<250	94
Method Blank 09-1484 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B08-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-01
Date Analyzed:	06/24/19	Data File:	906444-01.121
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	8.12
Cadmium	<1
Chromium	12.1 J
Lead	26.2
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B08-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-01 x5
Date Analyzed:	06/25/19	Data File:	906444-01 x5.044
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	13.1
----------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B08-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-03
Date Analyzed:	06/24/19	Data File:	906444-03.122
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.36
Cadmium	<1
Chromium	12.1
Lead	1.61
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B08-20	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-04
Date Analyzed:	06/24/19	Data File:	906444-04.123
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	7.78
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B07-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-05
Date Analyzed:	06/24/19	Data File:	906444-05.124
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.81
Cadmium	<1
Chromium	10.1
Lead	10.5
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B07-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-06
Date Analyzed:	06/24/19	Data File:	906444-06.125
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.40
Cadmium	<1
Chromium	8.35
Lead	2.19
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B07-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-07
Date Analyzed:	06/24/19	Data File:	906444-07.126
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.61
Cadmium	<1
Chromium	8.93
Lead	1.27
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B06-04	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-09
Date Analyzed:	06/24/19	Data File:	906444-09.151
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	5.61
Cadmium	<1
Chromium	10.2
Lead	32.4
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B06-09	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-10
Date Analyzed:	06/24/19	Data File:	906444-10.152
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.02
Cadmium	<1
Chromium	8.47 J
Lead	3.18
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B06-09	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-10 x5
Date Analyzed:	06/25/19	Data File:	906444-10 x5.045
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	8.89
----------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B06-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-11
Date Analyzed:	06/24/19	Data File:	906444-11.160
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	1.20
Cadmium	<1
Chromium	9.64
Lead	1.00
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B05-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-13
Date Analyzed:	06/24/19	Data File:	906444-13.137
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	7.66
Cadmium	<1
Chromium	9.78
Lead	22.1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B05-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-14
Date Analyzed:	06/24/19	Data File:	906444-14.161
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	5.15
Cadmium	<1
Chromium	14.1
Lead	2.58
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B05-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-15
Date Analyzed:	06/24/19	Data File:	906444-15.162
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.05
Cadmium	<1
Chromium	9.62
Lead	1.05
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B04-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-17
Date Analyzed:	06/24/19	Data File:	906444-17.163
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	9.79
Cadmium	<1
Chromium	10.8
Lead	76.9
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B04-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-18
Date Analyzed:	06/24/19	Data File:	906444-18.164
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	2.84
Cadmium	<1
Chromium	13.9 J
Lead	3.84
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B04-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-18 x5
Date Analyzed:	06/25/19	Data File:	906444-18 x5.046
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	14.8
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B04-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-19
Date Analyzed:	06/24/19	Data File:	906444-19.165
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	2.22
Cadmium	<1
Chromium	11.0
Lead	1.76
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B02-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-21
Date Analyzed:	06/24/19	Data File:	906444-21.173
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	147
Cadmium	6.73
Chromium	11.9 J
Lead	1,260 ve
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B02-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-21 x10
Date Analyzed:	06/25/19	Data File:	906444-21 x10.052
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	12.4
Lead	1,510

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B02-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-22
Date Analyzed:	06/24/19	Data File:	906444-22.174
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	12.4
Cadmium	6.97
Chromium	36.9 J
Lead	504 ve
Mercury	1.33

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B02-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-22 x5
Date Analyzed:	06/25/19	Data File:	906444-22 x5.053
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	38.6
Lead	494

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B02-20	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-24
Date Analyzed:	06/24/19	Data File:	906444-24.175
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	1.17
Cadmium	<1
Chromium	9.91
Lead	2.28
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B01-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-25
Date Analyzed:	06/24/19	Data File:	906444-25.176
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	7.85
Cadmium	<1
Chromium	18.8 J
Lead	14.8
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B01-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-25 x5
Date Analyzed:	06/25/19	Data File:	906444-25 x5.054
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	18.9
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B01-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-26
Date Analyzed:	06/24/19	Data File:	906444-26.177
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.56
Cadmium	<1
Chromium	12.8
Lead	3.81
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B01-20	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-28
Date Analyzed:	06/24/19	Data File:	906444-28.180
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	7.67
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B03-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-29
Date Analyzed:	06/24/19	Data File:	906444-29.181
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.61
Cadmium	<1
Chromium	14.0
Lead	8.98
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B03-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-30
Date Analyzed:	06/24/19	Data File:	906444-30.182
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.08
Cadmium	<1
Chromium	12.6
Lead	2.28
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B03-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-31
Date Analyzed:	06/24/19	Data File:	906444-31.183
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	8.88
Lead	1.00
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B12-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-33
Date Analyzed:	06/24/19	Data File:	906444-33.184
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.09
Cadmium	<1
Chromium	8.64
Lead	22.5
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B12-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-34
Date Analyzed:	06/24/19	Data File:	906444-34.185
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	6.76
Cadmium	<1
Chromium	9.47
Lead	40.0
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B12-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-35
Date Analyzed:	06/24/19	Data File:	906444-35.186
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	5.56
Cadmium	1.99
Chromium	24.2
Lead	38.4
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B11-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-36
Date Analyzed:	06/24/19	Data File:	906444-36.187
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	5.45
Cadmium	<1
Chromium	9.37
Lead	39.2
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B11-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-37
Date Analyzed:	06/24/19	Data File:	906444-37.188
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	7.12
Cadmium	<1
Chromium	10.3
Lead	56.9
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B11-20	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-39
Date Analyzed:	06/25/19	Data File:	906444-39.112
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.86
Cadmium	<1
Chromium	10.2 J
Lead	6.84
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B11-20	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906444-39 x5
Date Analyzed:	06/26/19	Data File:	906444-39 x5.033
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	12.5
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B10-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-40
Date Analyzed:	06/25/19	Data File:	906444-40.113
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	7.01
Cadmium	<1
Chromium	14.0 J
Lead	9.53
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B10-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906444-40 x5
Date Analyzed:	06/26/19	Data File:	906444-40 x5.036
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	16.9
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B10-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-41
Date Analyzed:	06/25/19	Data File:	906444-41.126
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	2.50
Cadmium	<1
Chromium	10.1
Lead	1.86
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B10-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-42
Date Analyzed:	06/25/19	Data File:	906444-42.127
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	7.82 J
Lead	1.00
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B10-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906444-42 x5
Date Analyzed:	06/26/19	Data File:	906444-42 x5.044
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	9.71
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B09-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-44
Date Analyzed:	06/25/19	Data File:	906444-44.133
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.21
Cadmium	<1
Chromium	11.2 J
Lead	6.70
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B09-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906444-44 x5
Date Analyzed:	06/26/19	Data File:	906444-44 x5.045
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	13.4
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B09-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-45
Date Analyzed:	06/25/19	Data File:	906444-45.134
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	7.65 J
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B09-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906444-45 x5
Date Analyzed:	06/26/19	Data File:	906444-45 x5.048
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	8.91
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B09-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-46
Date Analyzed:	06/25/19	Data File:	906444-46.135
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	8.37 J
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	B09-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	906444-46 x5
Date Analyzed:	06/26/19	Data File:	906444-46 x5.049
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	9.01
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	I9-390 mb
Date Analyzed:	06/24/19	Data File:	I9-390 mb.101
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	I9-391 mb
Date Analyzed:	06/24/19	Data File:	I9-391 mb.135
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/25/19	Lab ID:	I9-392 mb
Date Analyzed:	06/25/19	Data File:	I9-392 mb.110
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B08-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-01 1/5
Date Analyzed:	06/25/19	Data File:	062511.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	31	163
Benzo(a)anthracene-d12	85	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.019
Anthracene	<0.01
Fluoranthene	0.032
Pyrene	0.033
Benz(a)anthracene	0.012
Chrysene	0.016
Benzo(a)pyrene	0.014
Benzo(b)fluoranthene	0.019
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B07-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-05 1/5
Date Analyzed:	06/25/19	Data File:	062513.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	31	163
Benzo(a)anthracene-d12	82	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B06-09	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-10 1/5
Date Analyzed:	06/25/19	Data File:	062514.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	31	163
Benzo(a)anthracene-d12	79	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B05-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-14 1/5
Date Analyzed:	06/25/19	Data File:	062515.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	31	163
Benzo(a)anthracene-d12	76	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B04-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-17 1/5
Date Analyzed:	06/25/19	Data File:	062516.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	31	163
Benzo(a)anthracene-d12	86	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.45
Acenaphthylene	<0.01
Acenaphthene	0.66
Fluorene	0.081
Phenanthrene	0.31
Anthracene	0.012
Fluoranthene	0.024
Pyrene	0.029
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B02-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-22 1/50
Date Analyzed:	06/25/19	Data File:	062524.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	77 d	31	163
Benzo(a)anthracene-d12	102 d	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.1
Acenaphthylene	<0.1
Acenaphthene	<0.1
Fluorene	<0.1
Phenanthrene	<0.1
Anthracene	<0.1
Fluoranthene	<0.1
Pyrene	0.17
Benz(a)anthracene	<0.1
Chrysene	<0.1
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	0.10
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B01-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-26 1/5
Date Analyzed:	06/25/19	Data File:	062517.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	31	163
Benzo(a)anthracene-d12	83	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B03-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-29 1/5
Date Analyzed:	06/25/19	Data File:	062518.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	31	163
Benzo(a)anthracene-d12	91	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	0.016
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	0.033
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B12-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-35 1/5
Date Analyzed:	06/25/19	Data File:	062519.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	31	163
Benzo(a)anthracene-d12	99	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	14 ve
Acenaphthylene	<0.01
Acenaphthene	24 ve
Fluorene	18 ve
Phenanthrene	56 ve
Anthracene	5.0 ve
Fluoranthene	24 ve
Pyrene	21 ve
Benz(a)anthracene	3.3 ve
Chrysene	2.7 ve
Benzo(a)pyrene	0.95
Benzo(b)fluoranthene	1.6
Benzo(k)fluoranthene	0.46
Indeno(1,2,3-cd)pyrene	0.17
Dibenz(a,h)anthracene	0.049
Benzo(g,h,i)perylene	0.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B12-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-35 1/500
Date Analyzed:	07/01/19	Data File:	070111.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	459 d	31	163
Benzo(a)anthracene-d12	293 d	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	15
Acenaphthylene	<1
Acenaphthene	27
Fluorene	20
Phenanthrene	64
Anthracene	5.7
Fluoranthene	24
Pyrene	20
Benz(a)anthracene	3.2
Chrysene	3.0
Benzo(a)pyrene	<1
Benzo(b)fluoranthene	1.2
Benzo(k)fluoranthene	<1
Indeno(1,2,3-cd)pyrene	<1
Dibenz(a,h)anthracene	<1
Benzo(g,h,i)perylene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B11-20	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-39 1/5
Date Analyzed:	06/25/19	Data File:	062520.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	31	163
Benzo(a)anthracene-d12	87	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B10-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-41 1/5
Date Analyzed:	06/25/19	Data File:	062521.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	31	163
Benzo(a)anthracene-d12	82	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	B09-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-45 1/5
Date Analyzed:	06/25/19	Data File:	062522.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	80	31	163
Benzo(a)anthracene-d12	80	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	09-1479 mb 1/5
Date Analyzed:	06/25/19	Data File:	062506.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	84	31	163
Benzo(a)anthracene-d12	84	24	168

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B08-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-01 cl
Date Analyzed:	06/26/19	Data File:	062604.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	0.021
Aroclor 1260	0.013
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B07-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-05
Date Analyzed:	06/25/19	Data File:	062512.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	74	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	<0.002
Aroclor 1260	<0.002
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B06-09	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-10
Date Analyzed:	06/25/19	Data File:	062514.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	56	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	<0.002
Aroclor 1260	<0.002
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B05-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-14
Date Analyzed:	06/25/19	Data File:	062515.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	55	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	<0.002
Aroclor 1260	<0.002
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B04-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-17 cl
Date Analyzed:	06/26/19	Data File:	062605.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	54	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	0.021
Aroclor 1260	0.017
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B02-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-22
Date Analyzed:	06/25/19	Data File:	062517.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	66	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	0.74 ve
Aroclor 1260	<0.002
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B02-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-22 1/10
Date Analyzed:	06/26/19	Data File:	062610.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	70 d	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	0.83
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B01-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-26 cl
Date Analyzed:	06/26/19	Data File:	062606.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	55	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	0.0024
Aroclor 1260	<0.002
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B03-05	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-29
Date Analyzed:	06/28/19	Data File:	062808.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	73	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	0.12
Aroclor 1260	0.11
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B12-15	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-35 cl
Date Analyzed:	06/26/19	Data File:	062608.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	63	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	0.026
Aroclor 1260	0.033
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B11-20	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-39 cl
Date Analyzed:	06/26/19	Data File:	062609.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	65	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	<0.002
Aroclor 1260	0.0042
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B10-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-41
Date Analyzed:	06/25/19	Data File:	062522.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	66	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	<0.002
Aroclor 1260	<0.002
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	B09-10	Client:	SoundEarth Strategies
Date Received:	06/21/19	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	906444-45
Date Analyzed:	06/25/19	Data File:	062523.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	70	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	<0.002
Aroclor 1260	<0.002
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	SOU_1419-001_ 20190621
Date Extracted:	06/24/19	Lab ID:	09-1525 mb
Date Analyzed:	06/25/19	Data File:	062504.D
Matrix:	Soil	Instrument:	GC9
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	31	119

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.002
Aroclor 1232	<0.002
Aroclor 1016	<0.002
Aroclor 1242	<0.002
Aroclor 1248	<0.002
Aroclor 1254	<0.002
Aroclor 1260	<0.002
Aroclor 1262	<0.002
Aroclor 1268	<0.002

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 906444-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	99	69-120
Toluene	mg/kg (ppm)	0.5	104	70-117
Ethylbenzene	mg/kg (ppm)	0.5	110	65-123
Xylenes	mg/kg (ppm)	1.5	110	66-120
Gasoline	mg/kg (ppm)	20	85	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 906444-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	98	110	73-135	12

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	98	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 906475-01 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	10.8	90	87	75-125	3
Cadmium	mg/kg (ppm)	10	<5	100	97	75-125	3
Chromium	mg/kg (ppm)	50	18.4	93	92	75-125	1
Lead	mg/kg (ppm)	50	59.4	99	82	75-125	19
Mercury	mg/kg (ppm)	5	<5	88	76	75-125	15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	95	80-120
Cadmium	mg/kg (ppm)	10	104	80-120
Chromium	mg/kg (ppm)	50	109	80-120
Lead	mg/kg (ppm)	50	109	80-120
Mercury	mg/kg (ppm)	5	93	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 906444-13 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	6.74	92	79	75-125	15
Cadmium	mg/kg (ppm)	10	<1	101	100	75-125	1
Chromium	mg/kg (ppm)	50	8.61	85	82	75-125	4
Lead	mg/kg (ppm)	50	19.5	84	84	75-125	0
Mercury	mg/kg (ppm)	5	<1	88	91	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	88	80-120
Cadmium	mg/kg (ppm)	10	107	80-120
Chromium	mg/kg (ppm)	50	105	80-120
Lead	mg/kg (ppm)	50	106	80-120
Mercury	mg/kg (ppm)	5	103	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 906444-40 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	5.26	91	87	75-125	4
Cadmium	mg/kg (ppm)	10	<5	103	103	75-125	0
Chromium	mg/kg (ppm)	50	12.2	99	97	75-125	2
Lead	mg/kg (ppm)	50	7.35	99	100	75-125	1
Mercury	mg/kg (ppm)	5	<5	94	91	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	94	80-120
Cadmium	mg/kg (ppm)	10	98	80-120
Chromium	mg/kg (ppm)	50	103	80-120
Lead	mg/kg (ppm)	50	109	80-120
Mercury	mg/kg (ppm)	5	101	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
SAMPLES FOR PAHS BY EPA METHOD 8270D SIM**

Laboratory Code: 906444-01 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
Naphthalene	mg/kg (ppm)	0.17	<0.01	74	44-129
Acenaphthylene	mg/kg (ppm)	0.17	<0.01	79	52-121
Acenaphthene	mg/kg (ppm)	0.17	<0.01	77	51-123
Fluorene	mg/kg (ppm)	0.17	<0.01	81	37-137
Phenanthrene	mg/kg (ppm)	0.17	0.014	82	34-141
Anthracene	mg/kg (ppm)	0.17	<0.01	80	32-124
Fluoranthene	mg/kg (ppm)	0.17	0.023	87	16-160
Pyrene	mg/kg (ppm)	0.17	0.024	85	10-180
Benz(a)anthracene	mg/kg (ppm)	0.17	0.0090	80	23-144
Chrysene	mg/kg (ppm)	0.17	0.012	77	32-149
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	0.014	86	23-176
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	<0.01	84	42-139
Benzo(a)pyrene	mg/kg (ppm)	0.17	0.010	81	21-163
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	<0.01	59	23-170
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	<0.01	58	31-146
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	<0.01	49	37-133

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	83	83	58-121	0
Acenaphthylene	mg/kg (ppm)	0.17	83	87	54-121	5
Acenaphthene	mg/kg (ppm)	0.17	87	88	54-123	1
Fluorene	mg/kg (ppm)	0.17	86	89	56-127	3
Phenanthrene	mg/kg (ppm)	0.17	86	88	55-122	2
Anthracene	mg/kg (ppm)	0.17	88	89	50-120	1
Fluoranthene	mg/kg (ppm)	0.17	87	91	54-129	4
Pyrene	mg/kg (ppm)	0.17	87	83	53-127	5
Benz(a)anthracene	mg/kg (ppm)	0.17	87	89	51-115	2
Chrysene	mg/kg (ppm)	0.17	89	93	55-129	4
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	91	91	56-123	0
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	89	91	54-131	2
Benzo(a)pyrene	mg/kg (ppm)	0.17	84	84	51-118	0
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	88	84	49-148	5
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	89	86	50-141	3
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	84	79	52-131	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/03/19

Date Received: 06/21/19

Project: SOU_1419-001_ 20190621, F&BI 906444

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCLOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 906444-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Control Limits
Aroclor 1016	mg/kg (ppm)	0.083	<0.002	77	50-150
Aroclor 1260	mg/kg (ppm)	0.083	<0.002	82	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.083	83	87	47-158	5
Aroclor 1260	mg/kg (ppm)	0.083	90	95	69-147	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

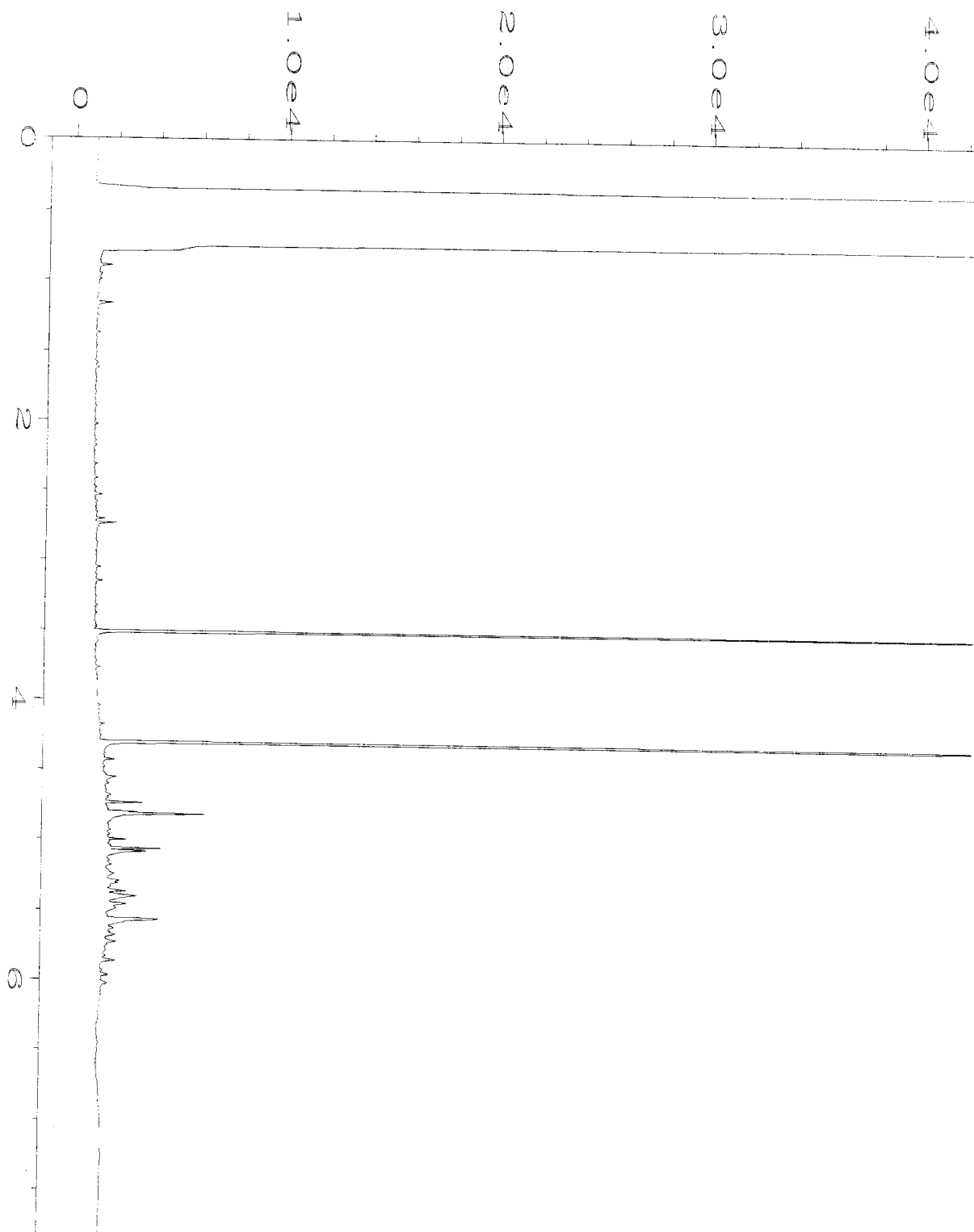
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

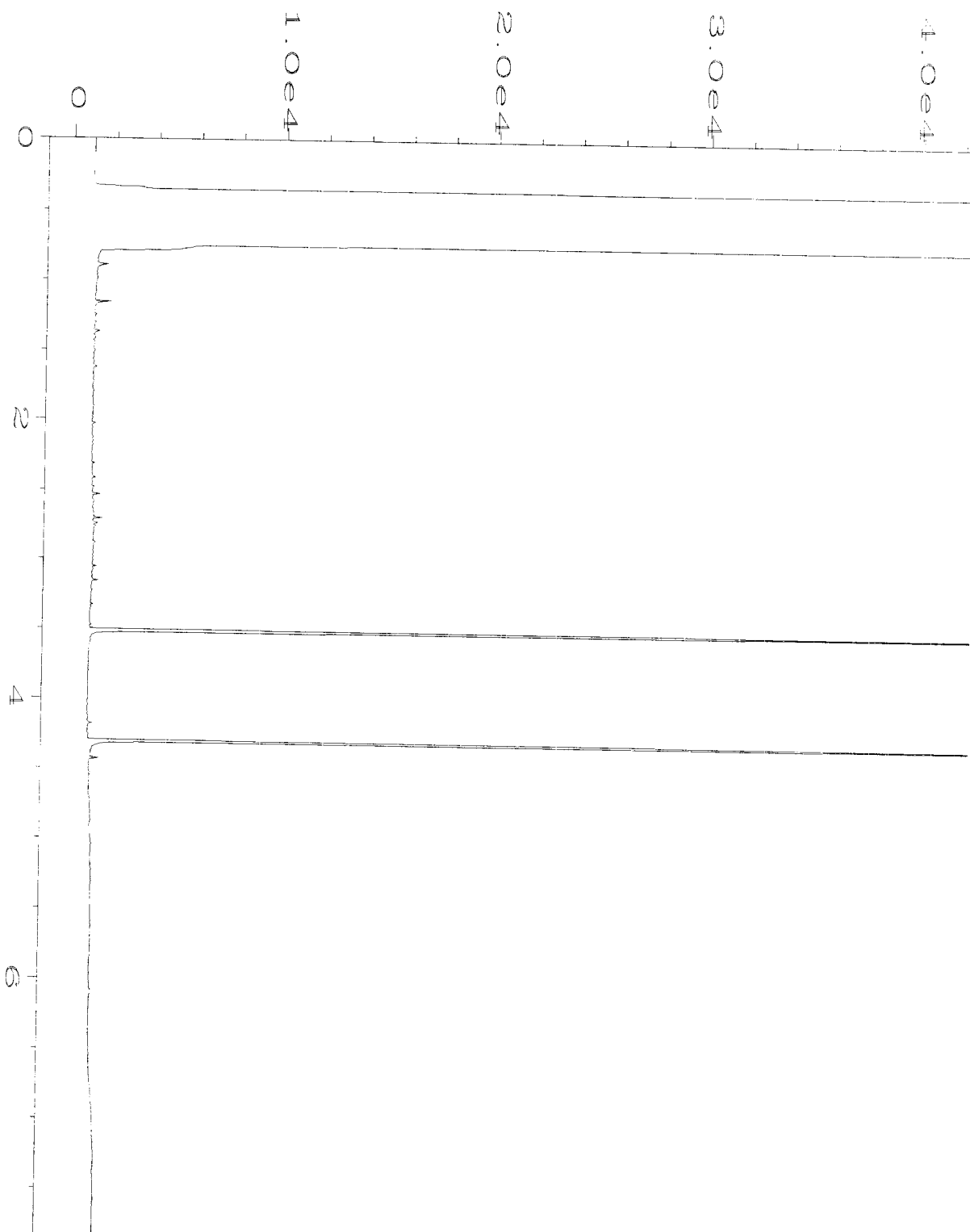
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

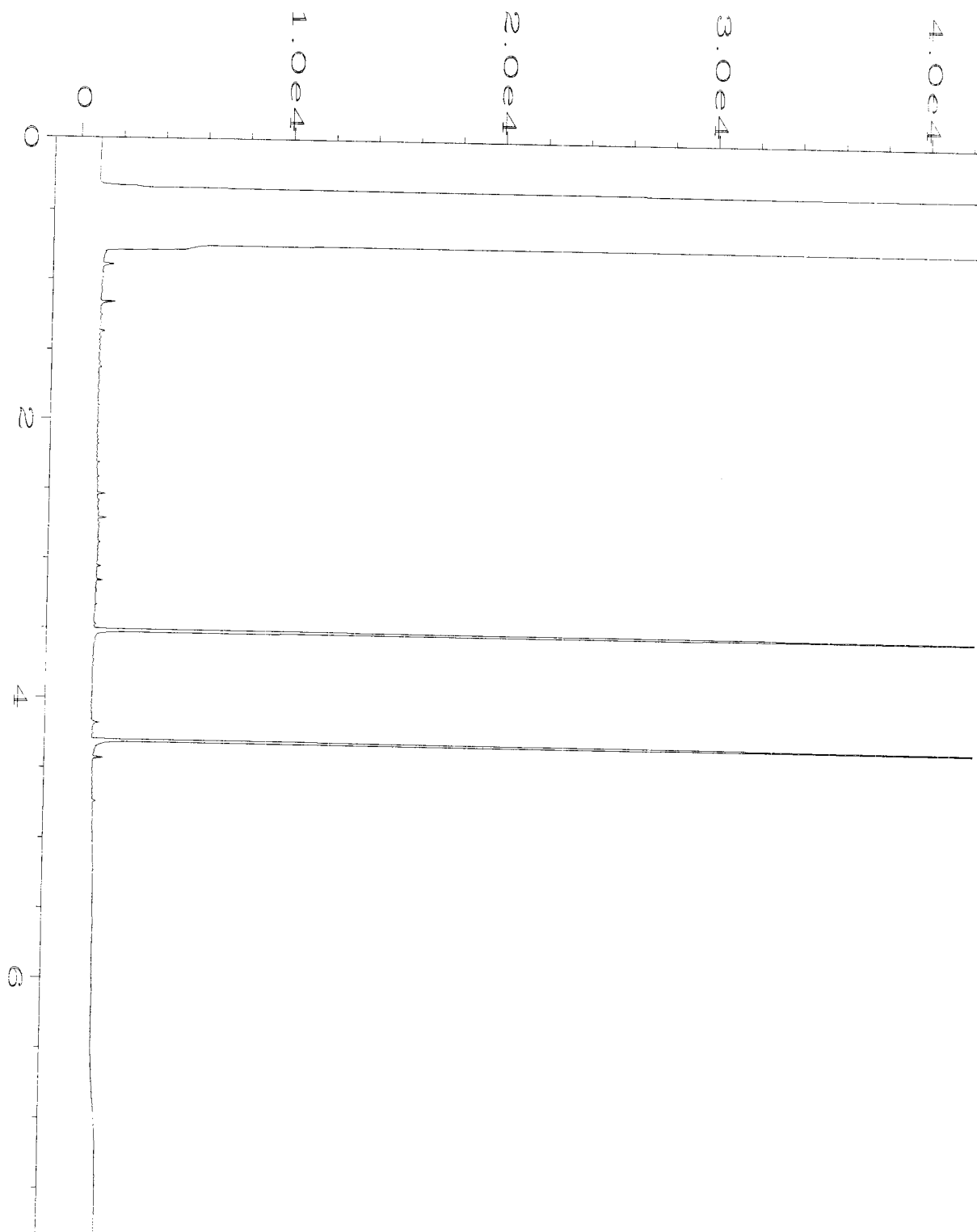
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



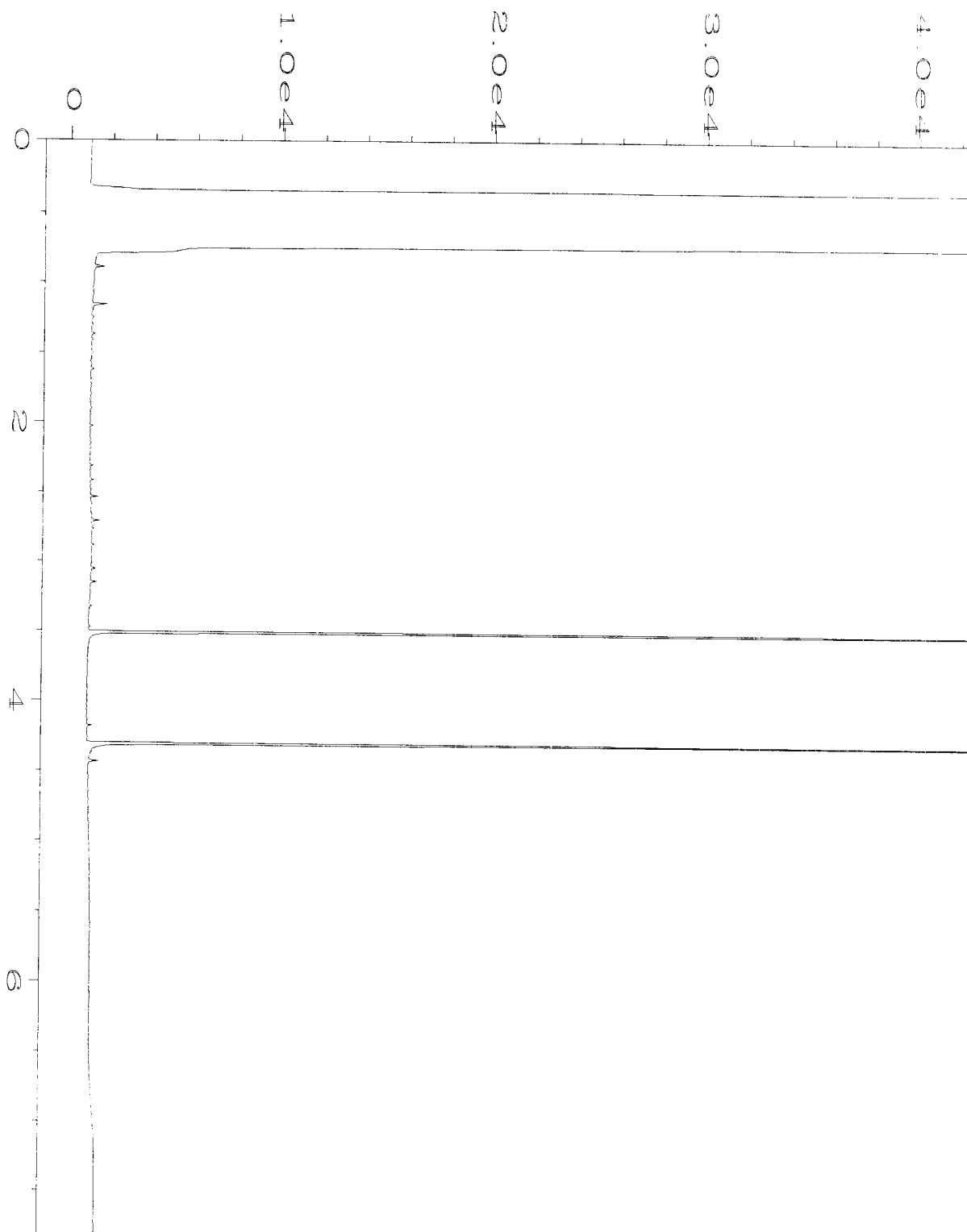
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Acquired on	: 24 Jun 19 02:37 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:33 AM		



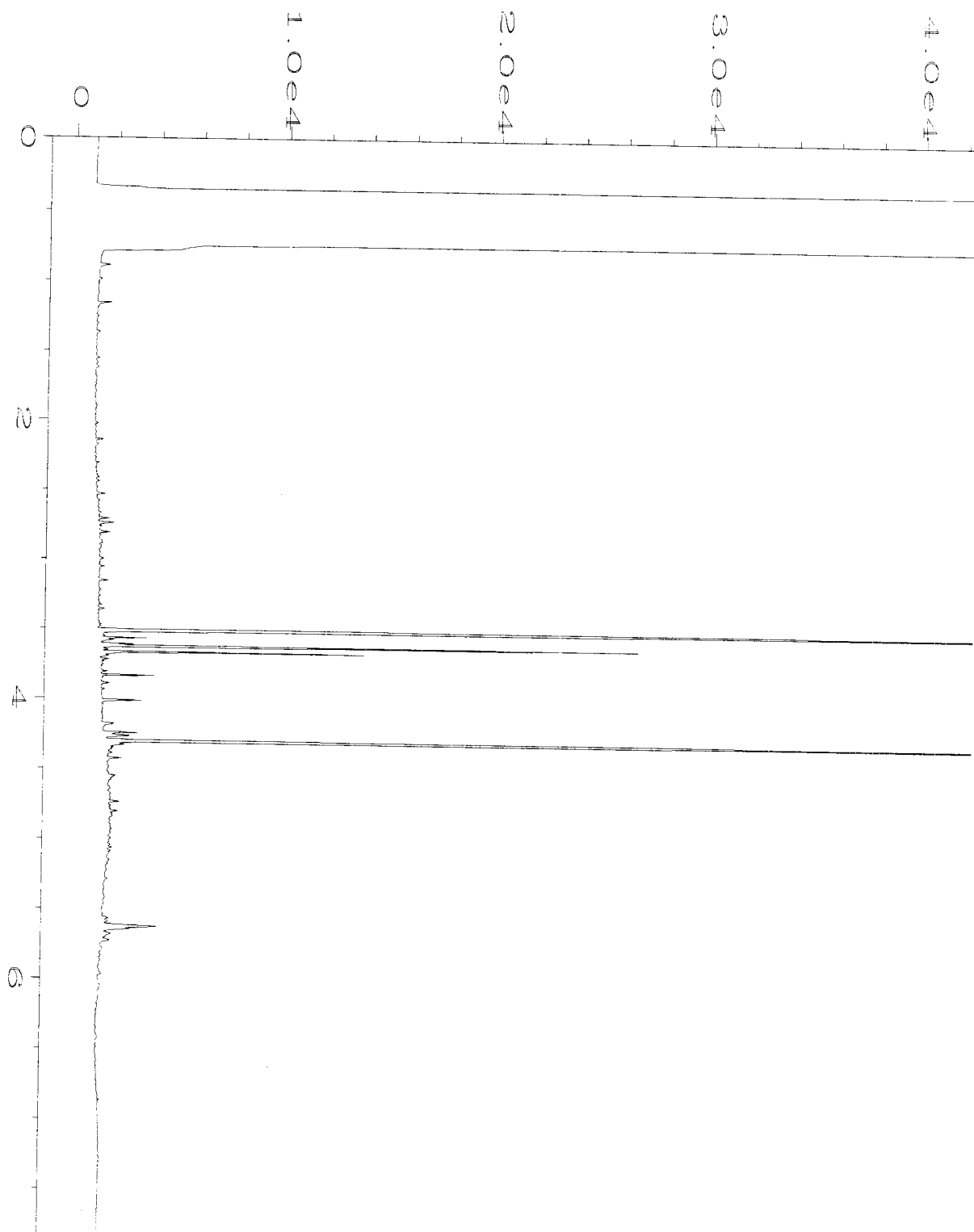
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Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 02:49 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:22 AM		



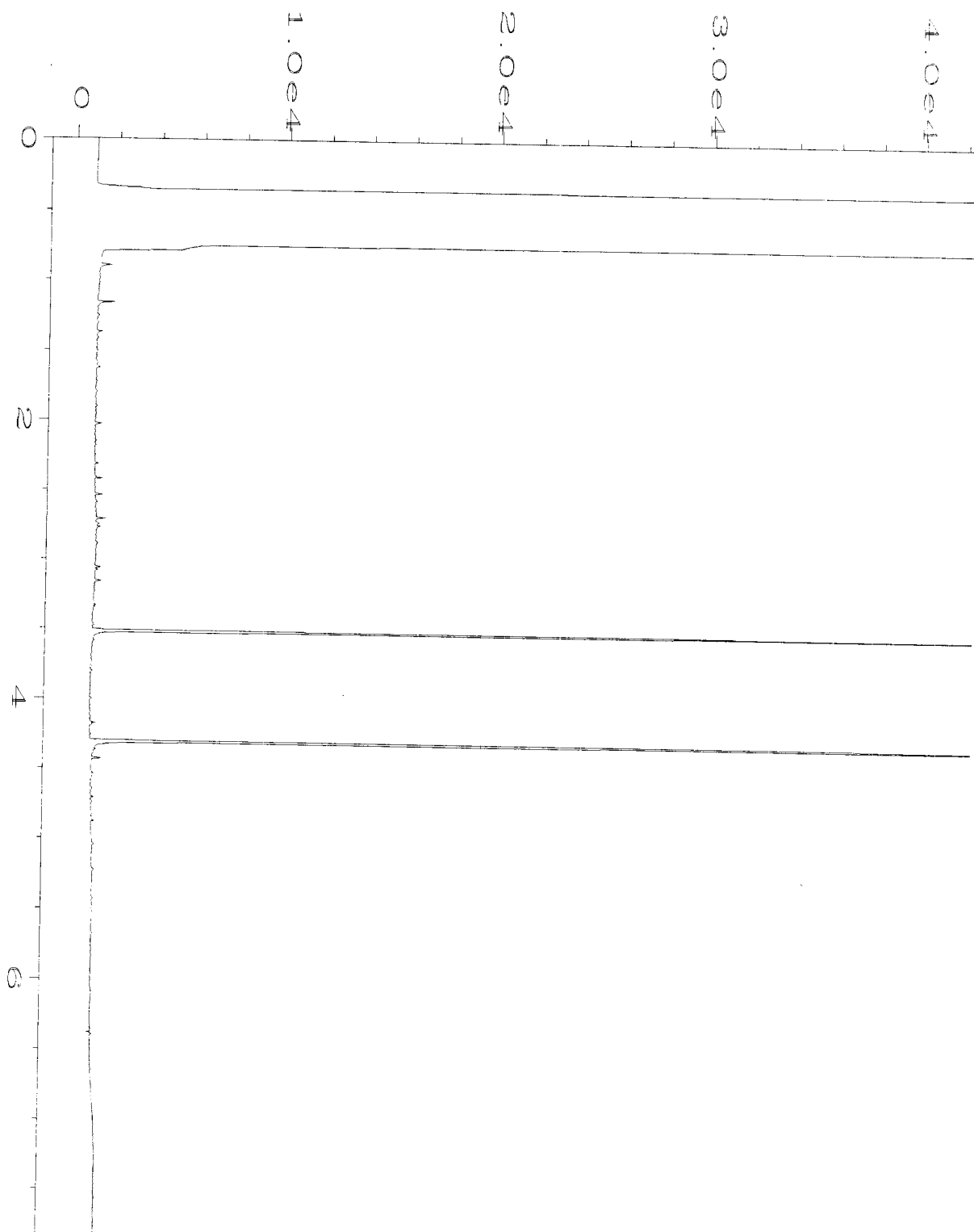
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-05	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 03:02 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:23 AM		



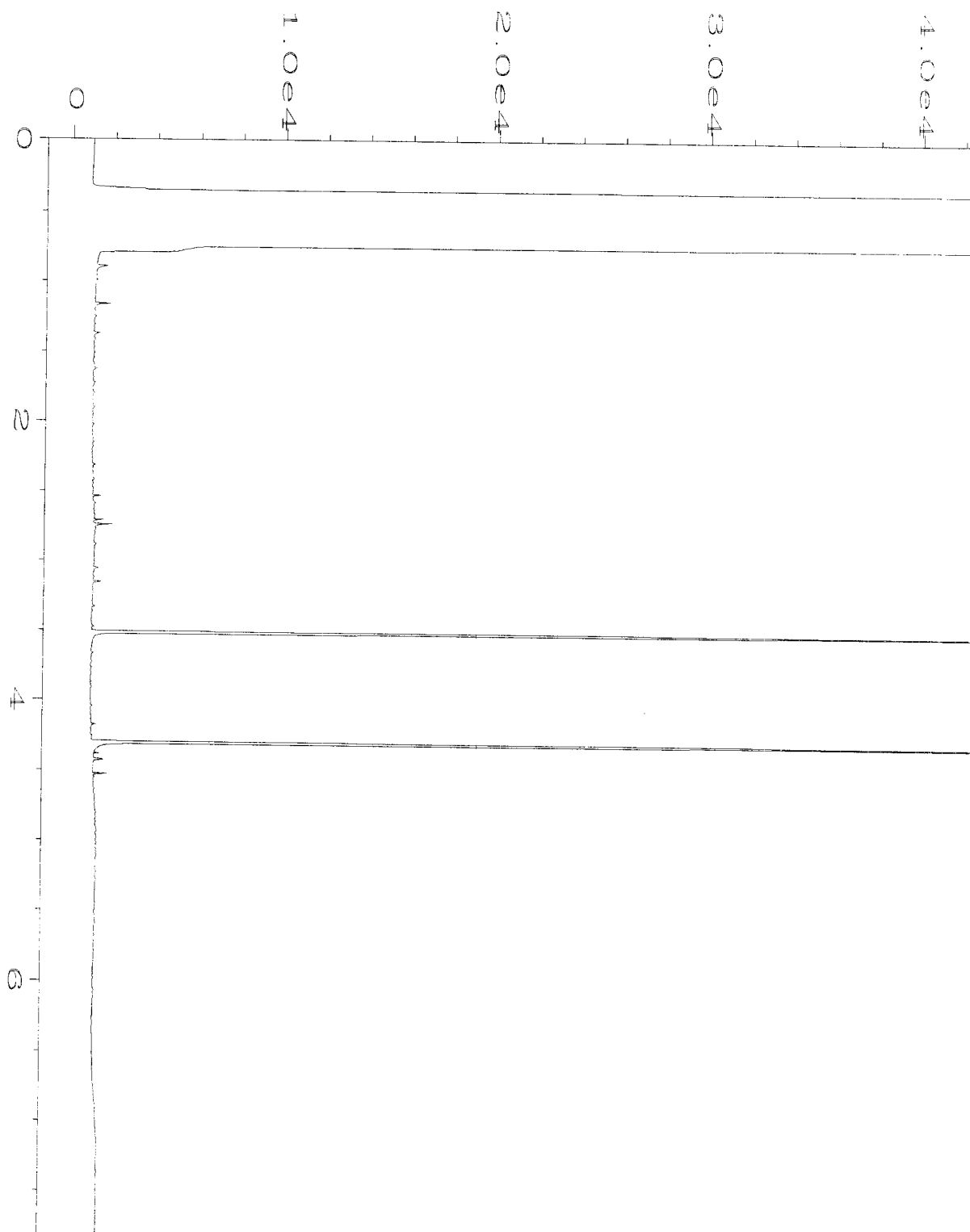
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Report Created on:	25 Jun 19 07:23 AM		



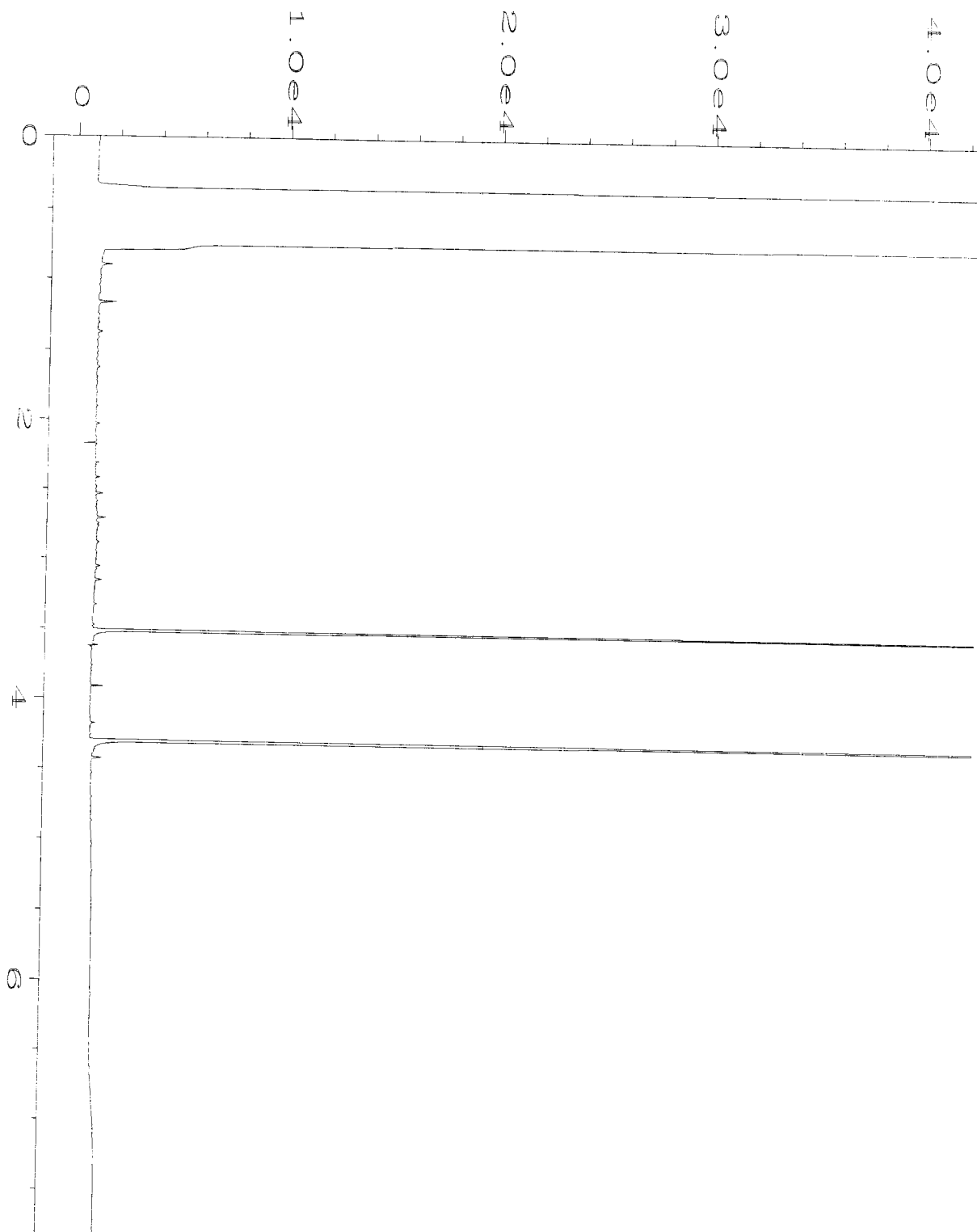
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Acquired on	: 24 Jun 19 03:27 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:23 AM		



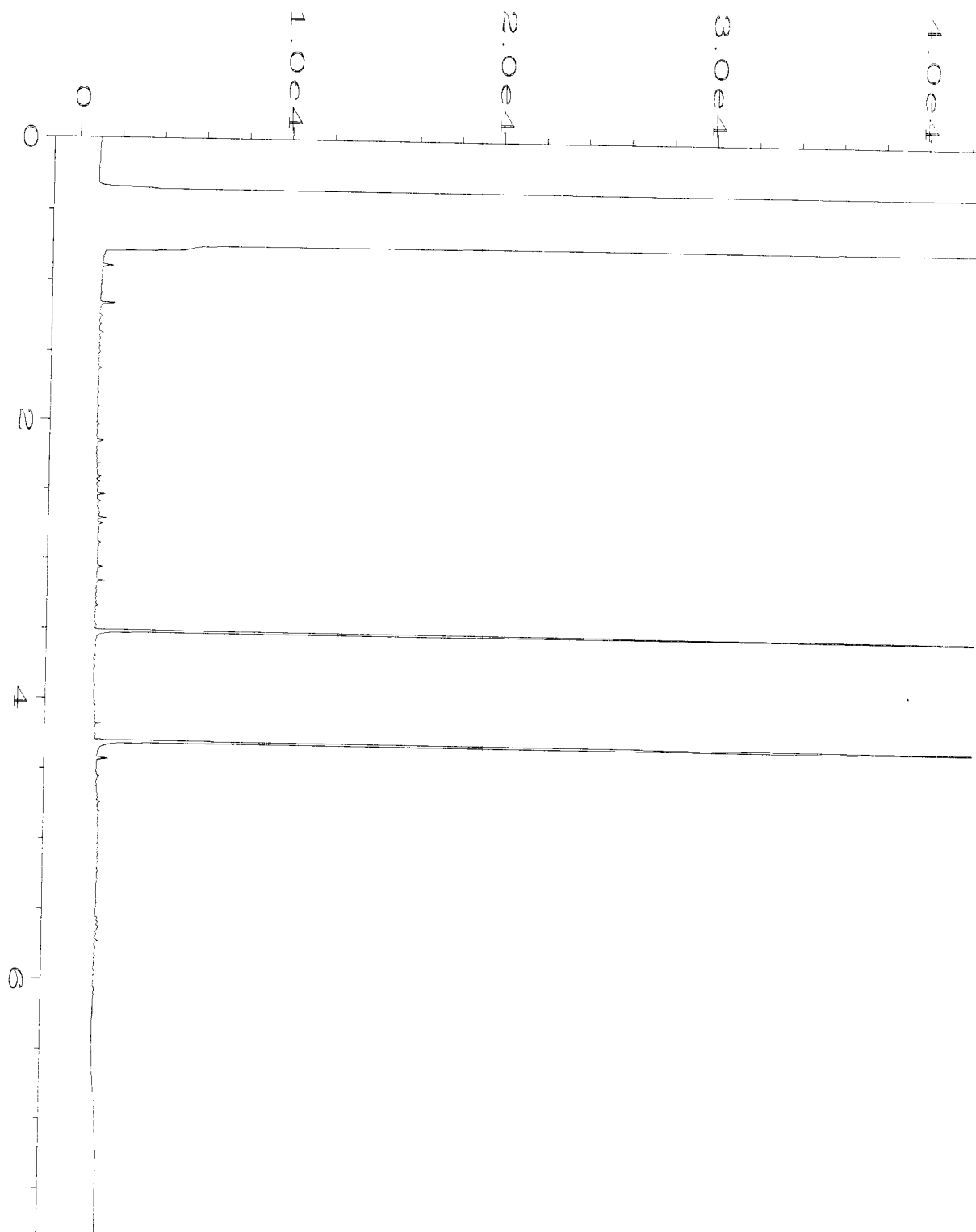
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Operator	: TL	Vial Number	: 40
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-10	Sequence Line	: 11
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 03:39 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:23 AM		



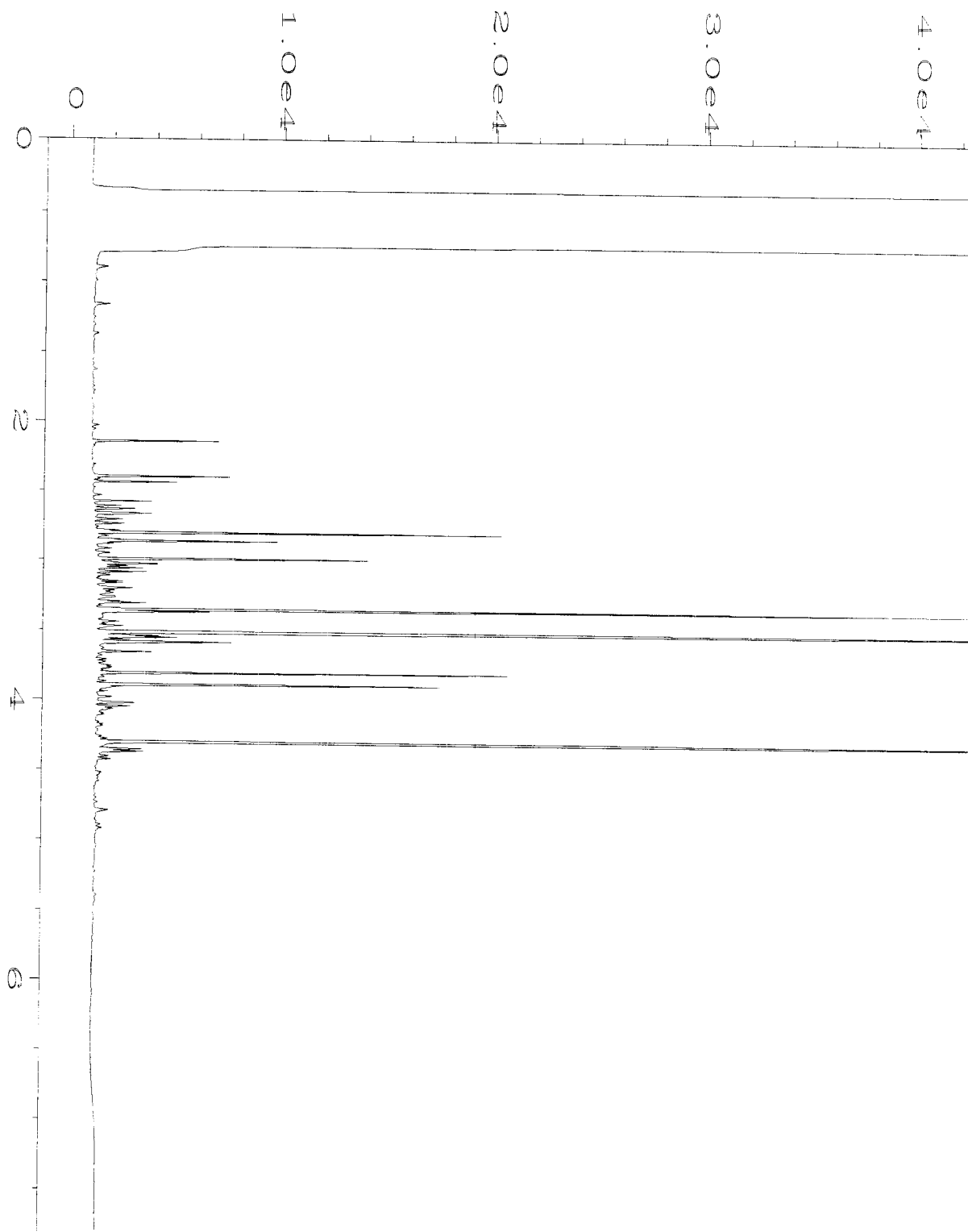
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-13	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 03:52 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:23 AM		



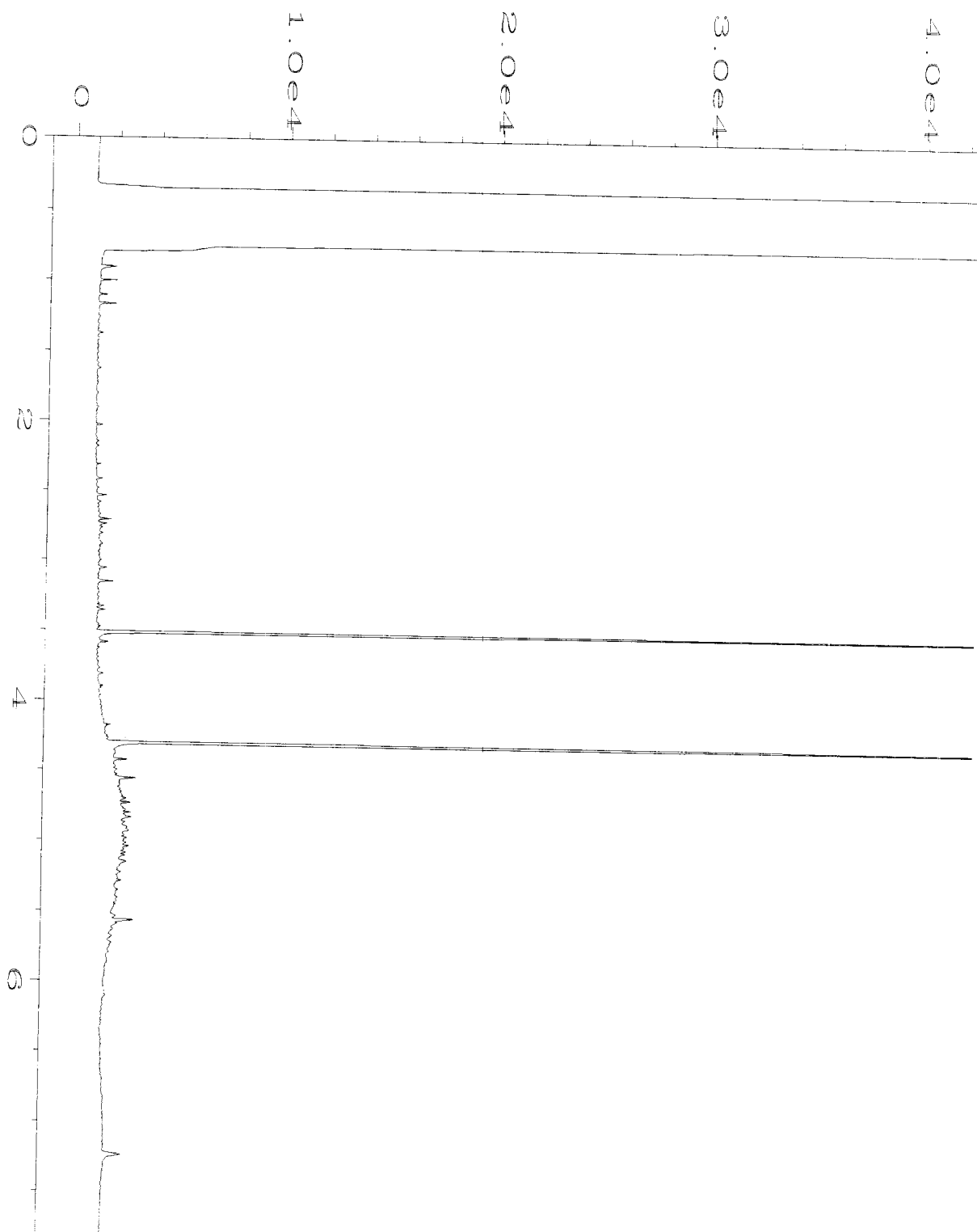
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Operator	: TL	Vial Number	: 42
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-14	Sequence Line	: 11
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 04:04 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:24 AM		



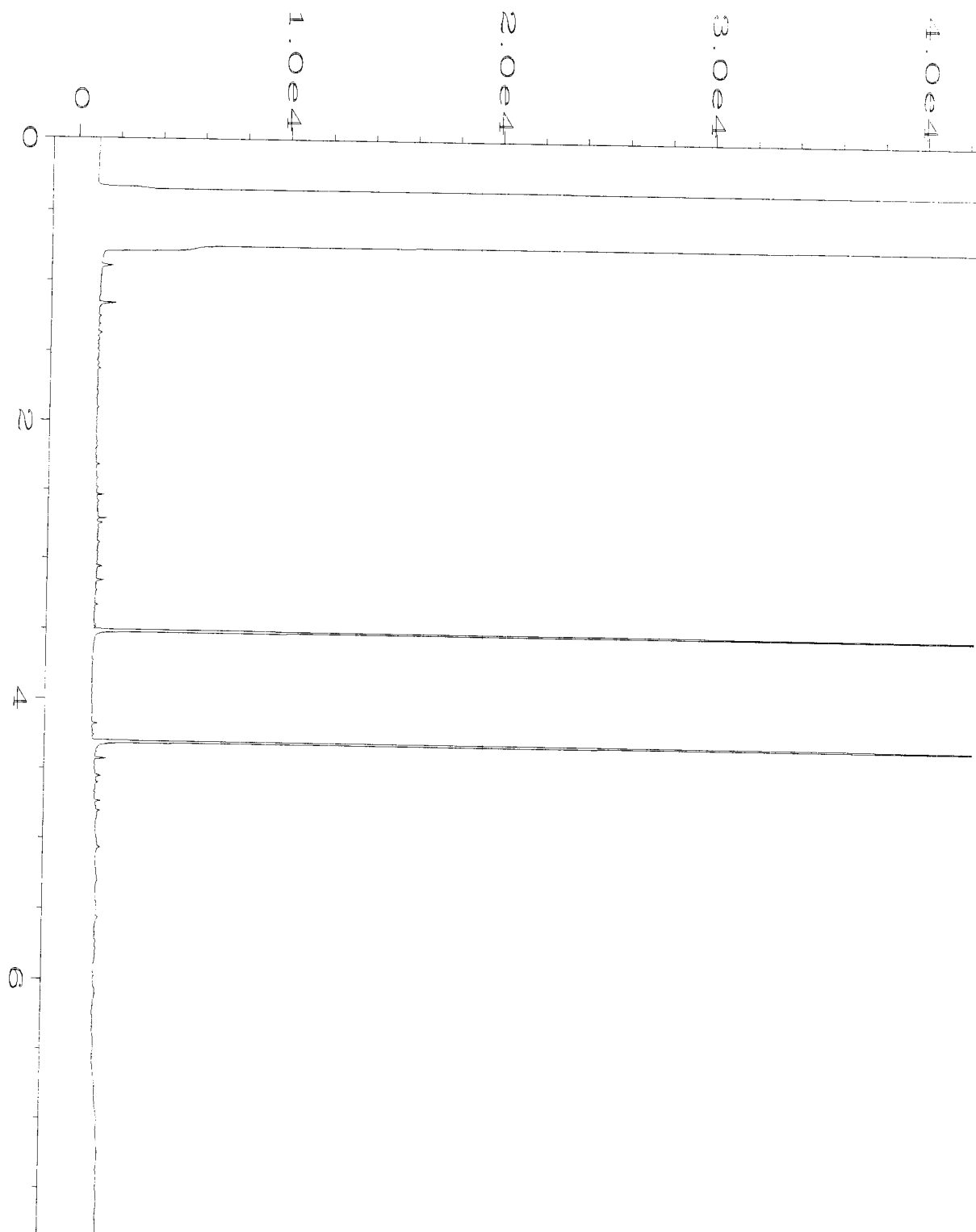
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Operator	: TL	Vial Number	: 43
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-34	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 04:16 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:24 AM		



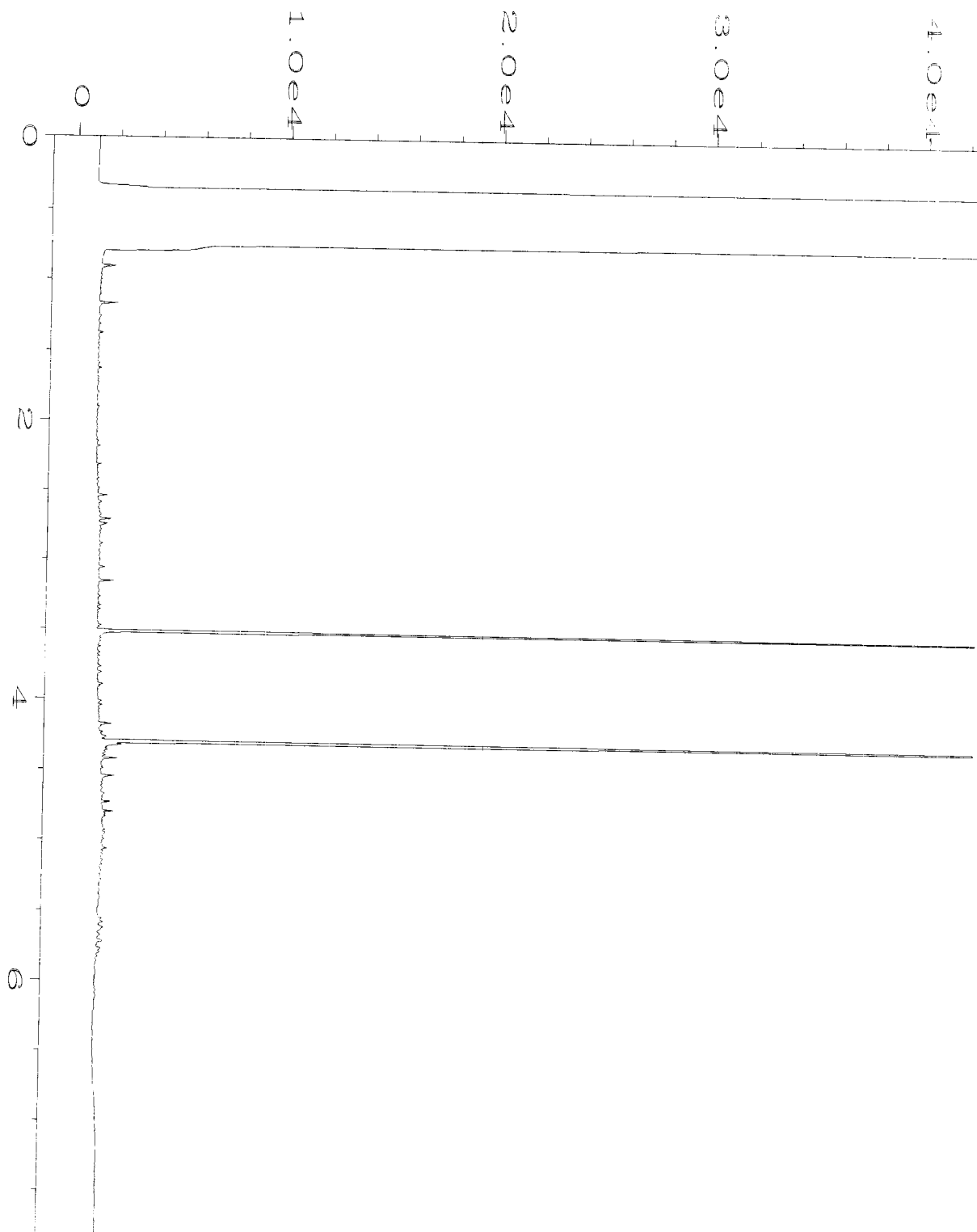
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Operator	: TL	Vial Number	: 44
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-35	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 04:29 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:24 AM		



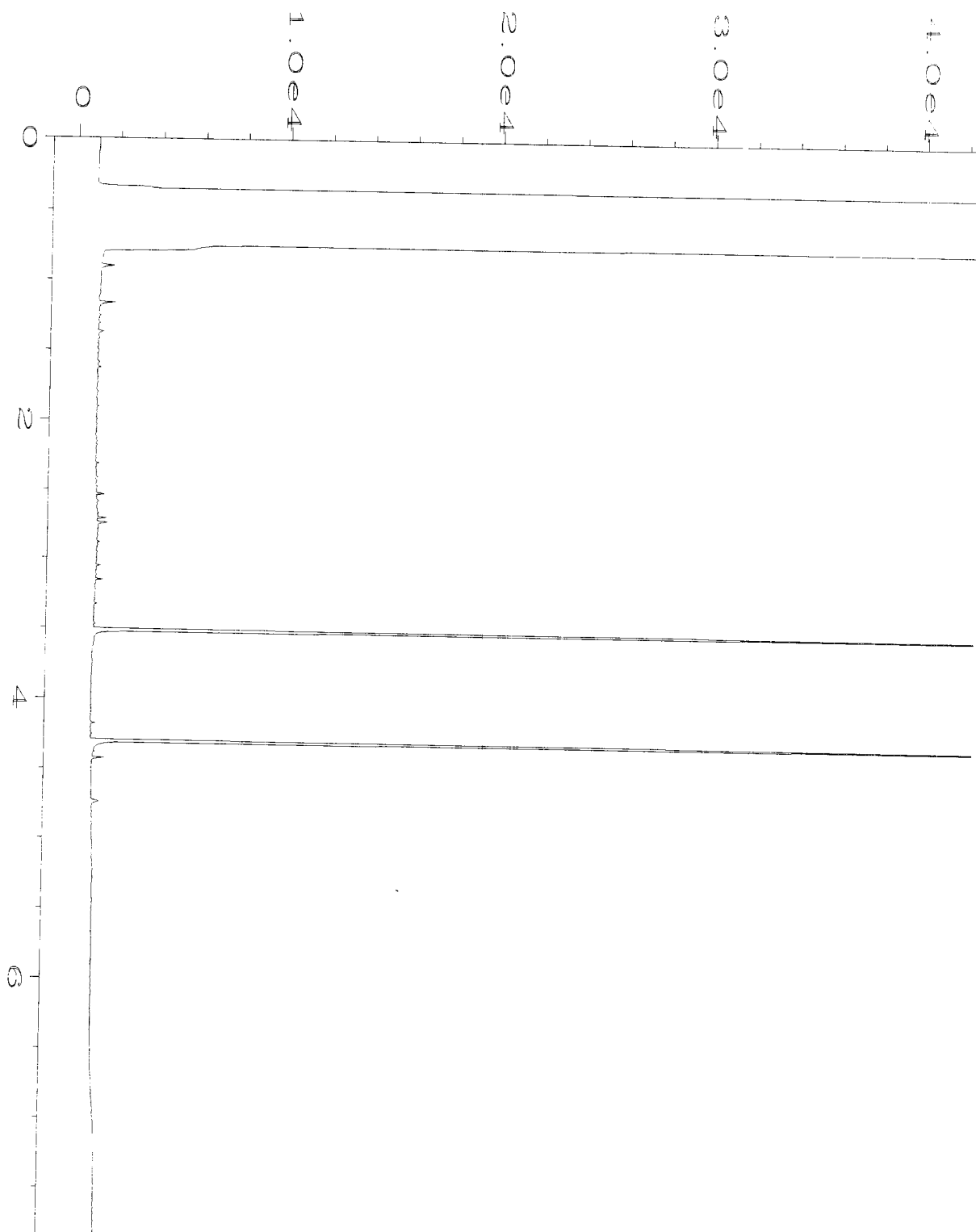
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-36	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 04:42 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:24 AM		



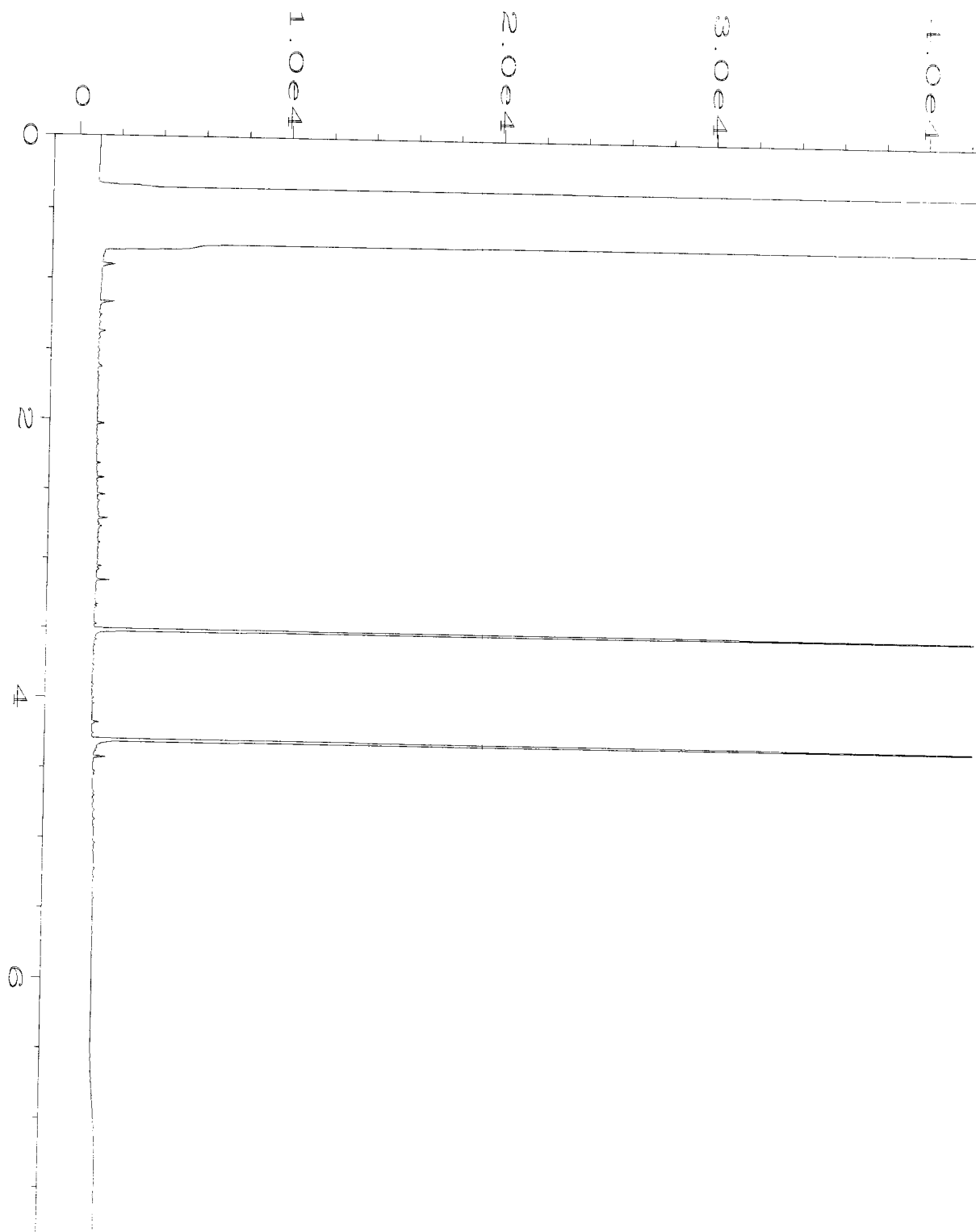
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-39	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 04:54 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:24 AM		



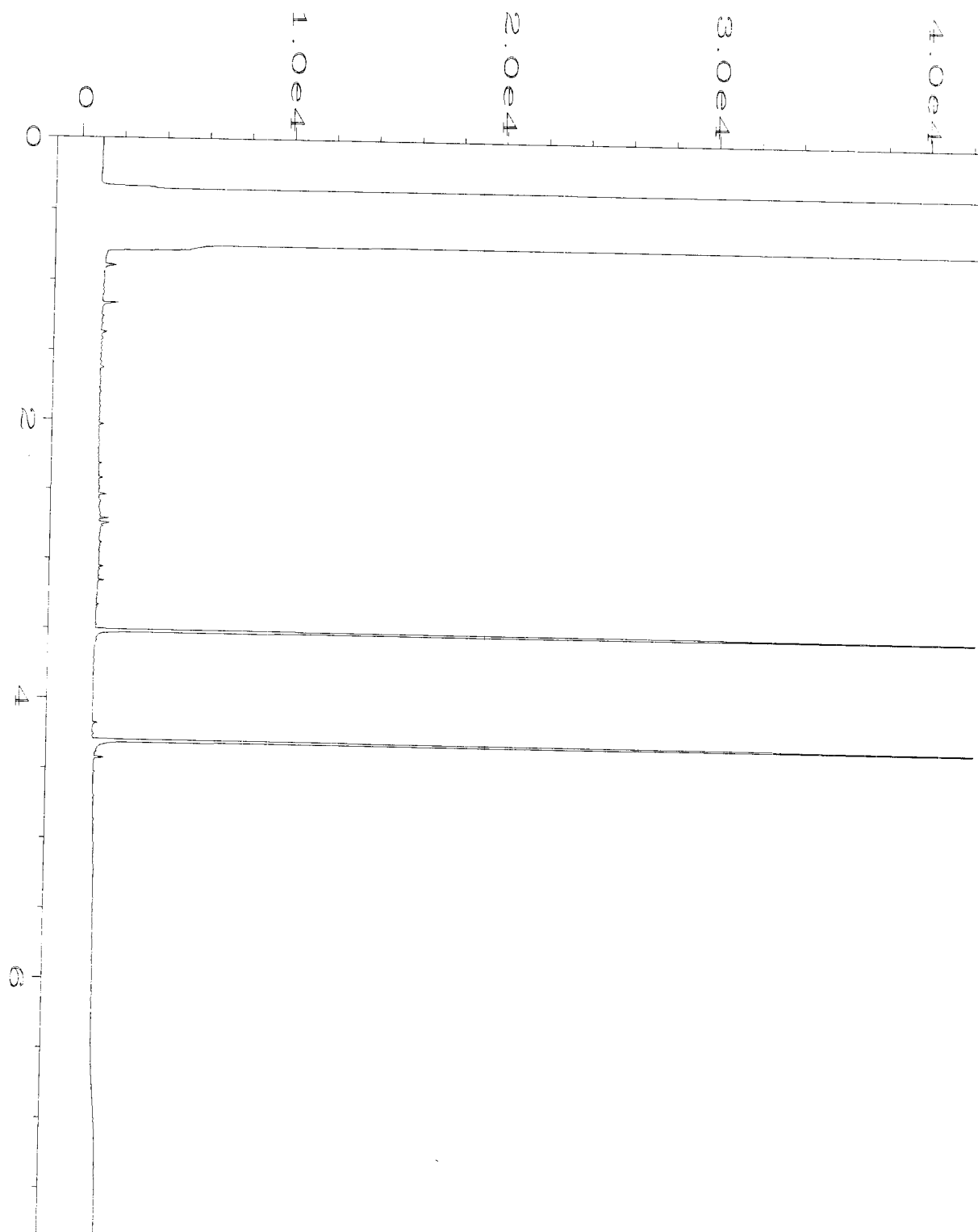
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-40	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 05:06 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:25 AM		



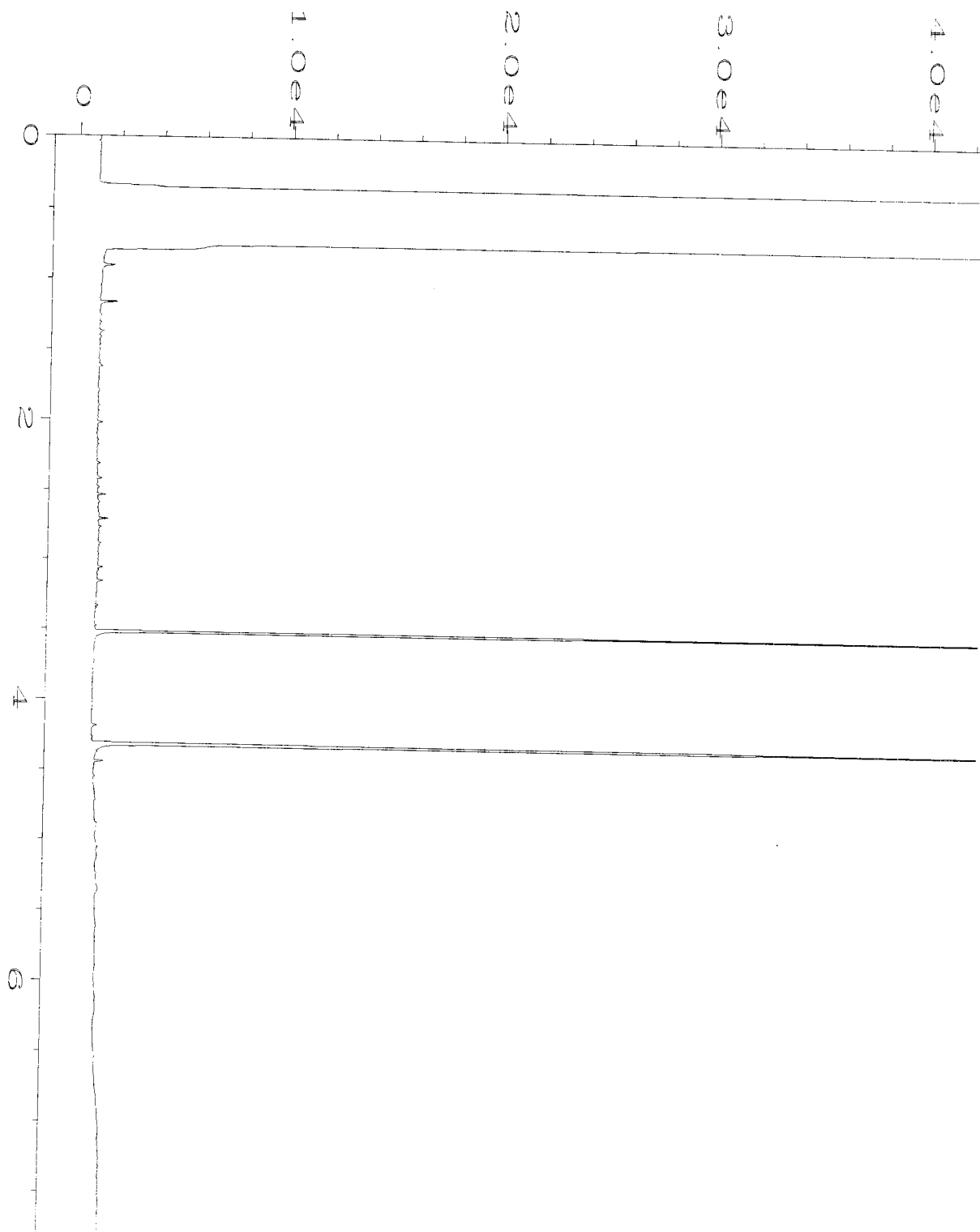
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-41	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 05:19 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:25 AM		



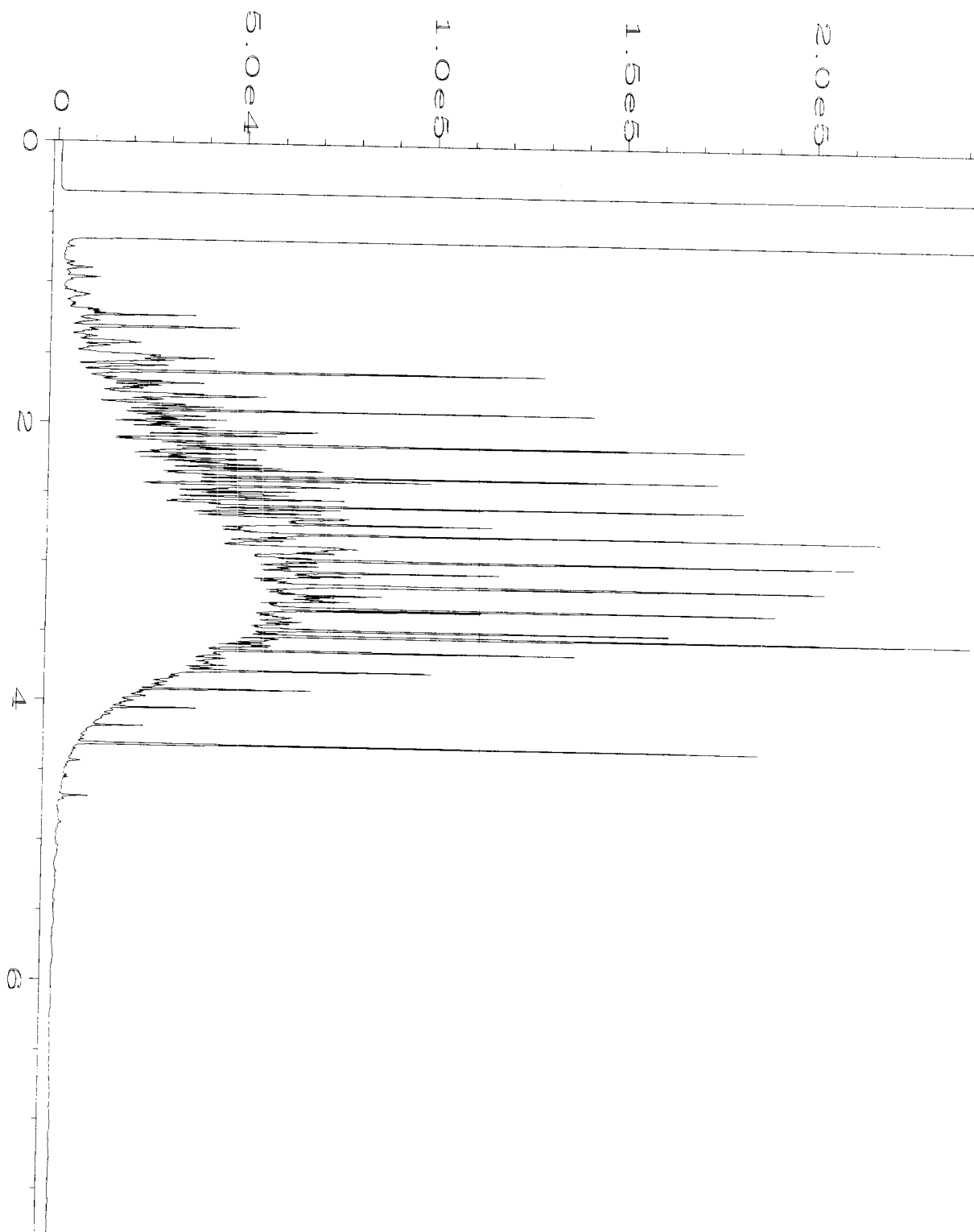
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-44	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 05:31 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:25 AM		



Data File Name	: C:\HPCHEM\4\DATA\06-24-19\050F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 50
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 906444-45	Sequence Line	: 11
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 24 Jun 19 05:44 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:25 AM		



Data File Name	: C:\HPCHEM\4\DATA\06-24-19\031F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 31
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 09-1484 mb	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 01:50 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:25 AM		



Data File Name	: C:\HPCHEM\4\DATA\06-24-19\005F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 5
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 1000 Dx 57-78B	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Jun 19 01:34 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Jun 19 07:26 AM		

SAMPLE CHAIN OF CUSTODY HE 06-21-19

8041 VS 4 4

906444

Send Report To Travis Zandi, Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. DUWAMISH YACHT PROPERTY 1419-001	PO #
REMARKS <u>ALL SAMPLES ON HOLD.</u> <u>ANALYSES TO BE SELECTED BY PM.</u>	GEMS Y / N

Page # _____ of _____
TURNAROUND TIME <u>Standard (2 Weeks)</u> <u>RUSH</u> <u>5 DAY TAT</u> <u>87</u>
Rush charges authorized by: <u>TRAVIS ZANDI</u> <u>87</u>
SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	* GRPH by NWTPH-GX ^{WATER}	DRPH/ORPH by NWTPH-DX	VOCs by 8260C	PCBs by 8082A	PAHs by 8270D	Go2o MTCA 5 Metals by 1631E	HOLD	X-per WH Notes <u>6/21</u>
B08-05	B08	5'	01A	6/19/19	1000	SOIL	5	X	X		X	X	X		* GAS/BTEX ON ALL - <u>6/21</u>
B08-10	B08	10'	02		1015		5	X	X				X		
B08-15	B08	15'	03		1030		5						X		
B08-20	B08	20'	04		1040		5						X		
B07-05	B07	5'	05		1135		5	X	X		X	X	X		
B07-10	B07	10'	06		1155		5	X	X				X		
B07-15	B07	15'	07		1205		5						X		
B07-20	B07	20'	08		1215		5						X		
B06-04	B06	4'	09		1320		5	X	X				X		
B06-09	B06	9'	10		1335		5	X	X		X	X	X		
B06-15	B06	15'	11		1345		5						X		
B06-20	B06	20'	12		1400		5								
B05-05	B05	5'	13	✓	1410	✓	5	X	X				X		

Samples received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	JONATHAN LOEFFLER	SOUNDEARTH	6/21/19	0948
Received by: <u>[Signature]</u>	Adam	FEDEx	6/21/19	0948
Relinquished by:				
Received by: <u>[Signature]</u>	Phan Phan	FBI	6/21/19	1030

906444

SAMPLE CHAIN OF CUSTODY ME 06-21-19

B04 2 Ver 4
Page # 2 of 4Send Report To Travis Zandi; Jonathan LoefflerCompany SoundEarth Strategies, Inc.Address 2811 Fairview Avenue East, Suite 2000City, State, ZIP Seattle, Washington 98102Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature)

PROJECT NAME/NO.

DUWAMISH YACHT PROPERTY
1419-001

PO #

REMARKS

ALL SAMPLES ON HOLD.
ANALYSES TO BE SELECTED BY PM.

GEMS Y / N

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx 1/16" x 1/16"	DRPH/ORPH by NWTPH-Dx	VOCs by 8260C	PCBs by 8082A	PAHs by 8270D	6020 MTCA 5 Metals by 1631E	HOLD	Notes
B05-10	B05	10'	14A-E	6/19/19	1420	SOIL	5	X	X		X	X	X		X-per w/f 6/21 Notes
B05-15	B05	15'	15		1435		5						X		
B05-20	B05	20'	16		1445		5								
B04-05	B04	5'	17	6/20/19	0830		5				X	X	X		
B04-10	B04	10'	18		0845		5						X		
B04-15	B04	15'	19		0900		5						X		
B04-20	B04	20'	20		0910		5								
B02-05	B02	5'	21		0950		1						X		
B02-10	B02	10'	22		0955		1				X	X	X		
B02-15	B02	15'	23		1010		1								
B02-20	B02	20'	24		1020		1						X		
B01-05	B01	5'	25		1055		1						X		
B01-10	B01	10'	26	↓	1105	↓	1				X	X	X		Samples received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Jonathan Loeffler</u>	JONATHAN LOEFFLER	SOUNDEARTH	6/21/19	0948
Received by: <u>Andru</u>	Andru	PEDEX	6/21/19	0948
Relinquished by:				
Received by: <u>Nhan Phan</u>	Nhan Phan	FBI	6/21/19	1020

SAMPLE CHAIN OF CUSTODY ME 06-21-19

906444

Send Report To Jonathan Loeffler

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Avenue East, Suite 2000

City, State, ZIP Seattle, Washington 98102

Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLERS (signature) <i>Jonathan Loeffler</i>	
PROJECT NAME/NO. DUWAMISH YACHT PROPERTY 1419-001	PO #
REMARKS <u>ALL SAMPLES ON HOLD.</u> <u>ANALYSES TO BE SELECTED BY PM.</u>	GEMS Y / N

Page # 3 of 4

TURNAROUND TIME 1/84

Standard (2 Weeks)
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-GX/161E	DRPH/ORPH by NWTPH-DX	VOCs by 8260C	PCBs by 8082A	PAHs by 8270D	6020 MTCA 5 Metals by 1631E	HOLD	
B01-15	B01	15'	27	6/20/19	1115	SOIL	1								
B01-20	B01	20'	28	6/20/19	1120		1								
B03-05	B03	5'	29	6/20/19	1155		1				X	X	X		
B03-10	B03	10'	30	6/20/19	1200		1						X		
B03-15	B03	15'	31		1210		1						X		
B03-20	B03	20'	32		1215		1								
B12-05	B12	5'	33A-E		1245		5						X		
B12-10	B12	10'	34		1255		5	X	X		X	X	X		
B12-15	B12	15'	35		1310		5	X	X		X	X	X		
B11-05	B11	5'	36		1340		5	X	X				X		
B11-10	B11	10'	37		1350		5						X		
B11-15	B11	15'	38		1410		5								
B11-20	B11	20'	39	V	1420	V	5	X	X		X	X	X		

X-per WH
Notes
6/21/19

Samples received at 4 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>Jonathan Loeffler</i>	JONATHAN LOEFFLER	SOUNDEARTH	6/21/19	0948
Received by: <i>Andre</i>	Andre	CCPex	6/21/19	0948
Relinquished by:				
Received by: <i>M/ky/mw</i>	Rham Phan	FCBI	6/21/19	1030

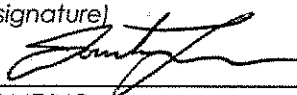
906 444

Send Report to Travis Zandi; Jonathan LoefflerCompany SoundEarth Strategies, Inc.Address 2811 Fairview Avenue East, Suite 2000City, State, ZIP Seattle, Washington 98102Phone # (206) 306-1900 Fax # (206) 306-1907

SAMPLE CHAIN OF CUSTODY

ME 06-21-19

SAMPLERS (signature)



Page #

4 Bay 4 / 184

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

PROJECT NAME/NO.

PO #

DUWAMISH YACHT PROPERTY

1419-001

REMARKS

ALL SAMPLES ON HOLD.

GEMS Y / N

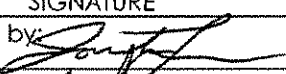
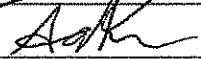
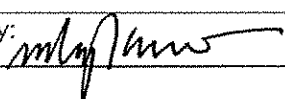
Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-GX / GEX	DRPH/ORPH by NWTPH-DX	VOCs by 8260C	PCBs by 8082A	PAHs by 8270D	Go20 MTCA 5 Metals by 1631E	HOLD	Notes
B10-05	B10	5'	40A	6/20/19	1455	SOIL	5	X	X				X		X - per WH
B10-10	B10	10'	41		1510		5	X	X		X	X	X		ef 6/21
B10-15	B10	15'	42		1520		5						X		
B10-20	B10	20'	43		1525		5								
B09-05	B09	5'	44		1550		5	X	X				X		
B09-10	B09	10'	45		1600		5	X	X		X	X	X		
B09-15	B09	15'	46		1610		5						X		
B09-20	B09	20'	47		1630		5								
								JH 6/20/19 Samples received at 4 °C							

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	JONATHAN LOEFFLER	SOUNDEARTH	6/21/19	0940
Received by: 	Andre	FEDEx	6/21/19	0948
Relinquished by:				
Received by: 	Nhan Phan	FEBT	6/21/19	1030