

Prepared for

SCIND Batavia Point, LLC

630 North Batavia Street

Orange, California

Remedial Action Plan and TSCA Application

630 North Batavia Street

Orange, California

Prepared by

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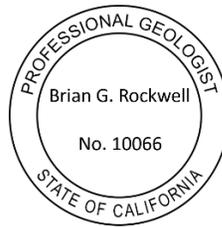
April 2023

REMEDIAL ACTION PLAN AND TSCA APPLICATION

630 North Batavia Street

Orange, California

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6 April 2023

Brian Rockwell, P.G.
Senior Geologist

Date

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1.0 INTRODUCTION

On behalf of SCIND Batavia Point, LLC (SCIND BP), Geosyntec Consultants, Inc. (Geosyntec) has prepared this Remedial Action Plan and TSCA Application (RAP) to develop a remedial strategy to address polychlorinated biphenyl (PCB) impacts present in shallow soils at the property located at 630 North Batavia Street, Orange, California (the ‘Site’). This document was prepared by Mr. Brian Rockwell, P.G. and Ms. Carrie McCoy, P.E., and was reviewed by Mr. Michael Lambert, P.G., each of Geosyntec and in accordance with the peer review policies of the firm.

1.1 Project Objectives

The objective of this RAP is to present the results of previous Site investigations and develop a path forward for the United States Environmental Protection Agency (USEPA) Region 9 to conduct Site remediation activities related to shallow soils impacted with PCBs present at the Site, as set forth in the Toxic Substances Control Act (“TSCA”, 40 CFR 761).

2.0 SITE BACKGROUND

The Site is currently developed with two commercial/industrial buildings occupied by Roseburrough Tool Inc. for the fabrication and sale of concrete, plaster, and masonry tools. The building on the western portion of the Site ('Western Site Building') was constructed in approximately 1983 and is currently utilized for tool manufacturing operations. The building on the eastern portion of the Site was constructed in approximately 1957 and is currently utilized for retail and office space (**Figures 1 and 2**).

The Site is located in a mixed commercial and industrial area. The Site is bounded to the north by a railroad, to the east by North Batavia Street, and to the south and west by commercial/industrial properties. Surrounding property uses include or have included a commercial drinking water bottling, construction coordination, auto crafts and waterproofing businesses, automotive repair shops, gas stations, and commercial tool manufacturing.

Based on a review of historical documentation, the Site was utilized for agriculture by 1938 until at least 1952 and was developed for commercial use in 1957. The Site was occupied by Pennwalt Corporation (Pennwalt; or subsidiaries thereof), which manufactured various oils and similar products from approximately 1957 until 1994. Pennwalt reportedly ceased manufacturing operations at the Site in 1989. After 1994, the Site was occupied by Roseburrough Tool Inc. until vacating the Site in late 2022/early 2023. The Site is currently vacant.

2.1 Summary of Environmental Conditions

According to available historical Site documentation, the Site was first occupied by Kerns Pacific Corp. Lubricant (Kerns), a subsidiary of Pennwalt, for blending of lubricating oils. Pennwalt occupied the Site since approximately 1969 and added grease production until 1986. Pennwalt also reportedly manufactured over 150 different products in batch processes, including cutting oils, drawing compounds, acid cleaners, caustic cleaners, detergents, and soaps. Pennwalt's operations were discontinued in April 1994. Raw materials were predominantly stored in a former above-ground storage tank (AST) farm that was historically located in the area between the east and west structures.

Based on environmental investigations and remedial actions historically conducted at the Site, Pennwalt's operations resulted in impacts to shallow soils, primarily polychlorinated biphenyls (PCBs) and total petroleum hydrocarbons (TPHs). Available chemical inventories from Pennwalt obtained by Geosyntec did not include products identified to

contain chlorinated solvents or other volatile organic compounds (VOCs). Historical records reflected minimal use of VOCs, which were not detected at elevated levels in historical and recent soil samples.

Environmental investigation activities have been conducted at the Site since as early as the late 1980s associated with the residual PCB and TPH impacts in the general tank farm area. The following subsections provide a brief overview of historical investigations and remedial actions conducted at the Site to provide a basis for the additional planned follow-up actions.

2.1.1 Historical Investigations and Remedial Actions

Historic records were obtained from the Orange County Health Care Agency (OCHCA) indicating that PCB and TPH investigations and cleanup activities were performed at the Site in the late 1980s and early 1990s. In 1989, a soil and soil vapor screening evaluation was conducted, which consisted of Site-wide soil vapor screening from 24 shallow vapor probes, and collection of soil samples from five borings ranging in depth from 5 to 65 feet below ground surface (ft bgs). While the soil vapor samples were not analyzed for speciated VOCs, concentrations were overall low throughout the Site such that they reportedly did not suggest the presence of a significant issue with shallow vapor-phase VOCs. Minimal impacts were detected in the soil samples collected from 5 ft bgs in four of the borings and at 10 and 35 ft bgs in one boring. However, shallow standing water was encountered in a buried gravel bed located at approximately 5 ft bgs within the historical tank farm area. The water was sampled, and diesel- and oil-range TPH (TPH-d and TPH-o, respectively), PCBs (Aroclor 1242), and 2-butanone were detected in the water sample.

Based on the results of this investigation, the former tank farm historically located between the two on-Site buildings was the suspected source of TPH and PCB impacts to shallow soils, and a source area removal action was conducted at the Site under the oversight of OCHCA. Approximately 2,000 cubic yards (CY) of soil was reportedly excavated from the former tank farm area and along the former rail spur north of the former tank farm area. Excavated soils were characterized and disposed offsite. Following initial excavation activities, confirmation soil sampling was conducted to drive further excavation as needed. Site-specific cleanup goals of 1,000 milligrams per kilogram (mg/kg) for TPH and 25 mg/kg for PCBs were established for the cleanup action, and soils containing concentrations of TPH and PCBs above these concentrations were excavated and removed.

Samples were analyzed for TPH, PCBs, and/or VOCs, depending on the location. Twenty confirmation soil samples were collected, with 16 additional samples collected where further excavation was conducted. Soil samples contained TPH and PCBs at concentrations up to 37,200 mg/kg and 38 mg/kg, respectively, and additional excavation was conducted in areas where Site-specific cleanup goals were exceeded until confirmation sampling indicated that residual TPH and PCB concentrations were below the Site-specific cleanup goals. The excavation areas were reportedly backfilled with clean imported soil and were paved with a 4" asphaltic material and slurry coated, and formal regulatory closure was granted for the Site associated with the TPH and PCB remediation was issued by OCHCA on 21 September 1990. Available documents associated with these investigations and remedial activities are provided in **Appendix A**.

2.1.2 Recent Site Investigations

A Phase I Environmental Site Assessment (ESA) was conducted for the Site by Geosyntec in 2021. While formal regulatory closure was received for the Site from OCHCA in regard to the TPH and PCB impacts, these remediation activities did not conform to the USEPA requirements for PCB remediation, as set forth in TSCA 40 CFR 761. Specifically, the prior remediation activities were not conducted under USEPA oversight, and only soils with PCB concentrations exceeding 25 mg/kg were excavated. Compliance with TSCA requires the delineation of soils containing PCBs above 1 mg/kg. As a result, the presence of PCBs was identified as a Recognized Environmental Condition (REC) in the Phase I ESA, and further investigation was conducted to evaluate the distribution of PCB-impacted soils at the Site.

Geosyntec conducted Phase II ESA activities at the Site in 2021 and 2022 to characterize the presence of PCBs in soil. The primary objective of the Phase II investigations was to evaluate whether residual PCB concentrations remained in soils at concentrations that required further characterization and remediation under TSCA. Secondary objectives of the work included identifying the lateral and vertical extent of PCBs in soil, to the extent feasible, and characterizing subsurface physical conditions for the evaluation of potential remedial alternatives, should they be required.

The Geosyntec site investigation work to date consisted of soil sampling conducted over four mobilizations in 2021 and 2022. Soil borings were advanced to six feet below ground surface (ft bgs) in most locations during each mobilization, with samples collected from 2, 4, and 6 ft bgs. The 6-foot samples were held for potential analysis based on whether PCBs were detected above 1 mg/kg in the 4-foot samples. Soil boring locations were biased to locations and depth intervals where additional delineation of PCBs to 1 mg/kg was warranted, based on the results of the previous mobilization, and were limited based

on Site conditions and access. Throughout the four mobilizations, 105 soil borings were advanced and 232 soil samples were analyzed for PCBs by USEPA Method 8082. Sampling locations and results are provided on **Figures 3 and 4**, and results are tabulated in **Table 1**. The associated laboratory analytical reports are provided in **Appendix B**.

Initial sampling locations were biased to locations and depth intervals where PCBs were indicated to remain in place, or where post-remediation samples were not analyzed for PCBs, based on documentation from the prior remediation activities conducted in the late 1980s. Additional borings were advanced during subsequent investigations to expand on the results of the previous investigations. Overall, results include the following:

- PCBs were detected above 1 mg/kg in 85 out of the 232 samples and at concentrations up to 2,400 mg/kg. However, only one sample was above 1,000 mg/kg, and only 17 samples were above 50 mg/kg;
- Samples with PCBs exceeding 1 mg/kg were vertically located at depths below 4 ft bgs in most borings (75 out of 105 borings) and were within the top 6 ft bgs in nearly all borings (102 out of 105 borings);
- Samples with elevated PCB concentrations were often noted to have visually observable petroleum staining and a petroleum odor, coupled with slightly elevated detections of total VOC concentrations as measured with a handheld photoionization detector (PID), indicating that the PCB-containing oils were likely the source of the PCBs;
- Lateral delineation to 1 mg/kg is currently infeasible to the south and west because the remaining distance to the property line is covered by obstructions; however, it is considered unlikely that PCB impacts extend beyond the property lines based on the extent of historical site operations; and
- Samples with PCBs exceeding 1 mg/kg laterally extend beneath the building and away from the historical bulk oil storage area but do not appear to be present to the north of the building, which indicates:
 - PCB impacts pre-date construction of the Western Site Building, which was constructed in approximately 1983 based on building records obtained during the Phase I ESA; and
 - Construction of the Western Site Building coincides with removal of the original bulk oil storage area. Coupled with PCB impacts largely not being detected north of the building and being confined to shallow soils, it is

considered reasonably likely that PCB-impacted soils associated with the former bulk storage area were mixed into the soils on which the structure was built during development in the early 1980s during grading operations.

2.1.3 Key Historical Investigation Takeaways

Based on the results of the investigations conducted to date, PCB-impacted soils at the Site are present within portions of the upper 4 feet of underlying soils west of the former bulk storage area and extend beneath the Western Site Building. PCB-impacted soils generally correlate to TPH impacts based on visual, olfactory, and/or marginally elevated VOC detections during soil screening with a PID during drilling activities, indicating that the PCBs were likely contained within petroleum-based products. Historical documents attributed the presence of PCBs at the Site to PCB-containing heating oils that were known to have previously been used during Site operations. This correlation is anticipated to allow for PCB impacted soils to be readily identifiable during excavation, which will assist with identification and segregation of impacted soils during future excavation activities.

Notably, the impacts extend substantially west of the of the former tank farm but are largely isolated to shallow soils beneath the Western Site Building constructed in 1983. While available aerial imagery for the Site does not show significant historical Site operations west of the former tank farm prior to construction of the Western Site Building (**Appendix A**), the tank farm appears to have been removed contemporaneously with construction of the Western Site Building. The PCB impacted soils are limited to depths in which grading activities would have been anticipated during building construction (generally less than 4 ft bgs), are heterogeneous within the borings (only one boring contained more than one soil sample in which PCBs were detected above 50 mg/kg), and generally were not detected north of the western structure, but for a limited extent of PCB-impacted soils along the former rail spur. Based on these combined factors, it is suspected that the PCB impacts present beneath the Western Site Building are predominantly the result of impacted soils associated with the historical tank farm having been graded into the soils beneath the building footprint during construction. The most elevated concentrations of PCBs are present beneath the eastern edge of the structure and show an overall gradational trend of reducing concentrations westward (i.e., away from historical tank farm area), which additionally supports this conclusion.

2.2 Redevelopment Plan

The existing Site buildings are planned to be demolished. The Site is planned to be redeveloped in 2023 into an approximately 133,378-square-foot self-storage facility with predominantly hardscape surfaces (i.e., concrete) planned throughout the property. The current redevelopment plan for the Site is provided on **Appendix C**. Redevelopment of the Site into a self-storage facility represents a very low-occupancy Site scenario, in which the only regularly-occupied area will be the office planned to be located on the eastern side of the Site along Batavia Street, a significant distance away from the areas in which the PCB-impacted soils have been identified. This redevelopment plan is consistent with the commercial/industrial zoning of the surrounding area. Contractors responsible for implementing the RAP will be Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-hour certified.

2.3 Regulatory Framework

USEPA Region 9 is the lead agency overseeing the Site and the proposed implementation of the RAP. OCHCA has indicated that they will not require their direct involvement in the project with the USEPA as the lead agency, though they will require formal notification once this RAP has been approved. Land use decisions and permitting pertaining to the proposed redevelopment fall under the jurisdiction of the City of Orange.

3.0 CONCEPTUAL SITE MODEL

The following subsections describe the conceptual site model (CSM) for the Site.

3.1 Geology and Hydrogeologic Setting

3.1.1 Geology

The Site is located in northeast Orange County within the Santa Ana River Basin. The Santa Ana River is located approximately one mile west of the Site, and the Peralta Hills, Chino Hills, and Santa Ana mountains are located approximately 2 miles northeast, 6 miles north, and 5 miles east of the Site, respectively [USGS, 1964]. Soils underlying the Site generally consist of unconsolidated stream, river, and alluvial sediments [CDMG, 1965], which is supported by the observation of sediments of varying thicknesses and soil types ranging from clays to sandy gravels within boring logs associated with borings historically advanced at the Site to depths up to 65 ft bgs.

3.1.2 Hydrogeology

The Site is located within the East Coast Plain Hydrologic Subarea of the Lower Santa Ana River Hydrologic Unit of the larger Santa Ana River Hydrologic Unit. The Site is located within the Santa Ana Forebay of the Lower Santa Ana Watershed, a sub-basin of the Santa Ana Groundwater Basin [CRWQCB, 1995].

According to a 2019 county map¹, groundwater in the vicinity of the Site is first encountered at approximately 50-60 feet above mean sea level (AMSL; over 100 ft bgs) and flows to the south. This is corroborated by routine groundwater monitoring conducted in 2022 at a property located at 250 N. Cypress Street, located approximately 0.5 miles southeast of the Site, where groundwater was reported to flow southward and is present at approximately 65 to 70 feet AMSL at a depth between 115 to 120 ft bgs², which, relative to the ground elevation at the Site of approximately 169 feet AMSL, indicates that the depth to groundwater underlying the Site is approximately 100 ft bgs. The boring historically completed to a depth of 65 ft bgs at the Site did not encounter groundwater.

¹ https://www.ocwd.com/media/8348/june_wl_principal_2019.pdf

² https://documents.geotracker.waterboards.ca.gov/esi/uploads/geo_report/7658084452/T10000004509.PDF

3.2 Constituents of Concern

Based on historical Site investigation and remediation activities, the primary constituent of concern (COC) at the Site consists of PCBs. Additionally, based on field observations and waste characterization data, the Site's history of manufacturing petroleum-based oil/lubricant products, the anticipated source of the soil impacts (i.e., soils derived from a historical tank farm previously located between the two present-day structures), and the historical excavation and remediation of TPH-impacted soils, the PCB impacts are anticipated to correspond with soils that are also impacted with TPH. However, based on the overall stability of the oils and lubricants anticipated to have been manufactured at the Site, it is anticipated that the TPH impacts primarily consist of longer-chain hydrocarbons, and thus, are anticipated to be non-carcinogenic in nature. Therefore, TPH is considered to be a secondary COC for the Site.

3.3 Extent of Impacts

Based on the combined results of historical and recent investigations conducted at the Site, the following is a brief discussion on the extent impacted subsurface media at the Site.

3.3.1 Soil

PCBs have been identified in shallow soils at the Site associated with historical oil/lubricant manufacturing operations conducted by Pennwalt. Based on extensive recent and historical site investigation activities, the extent of PCB impacts is generally limited to west of the former bulk storage/tank farm area that was previously located in the central portion of the Site and extend beneath the Western Site Structure. Limited PCB impacts have also been identified along the historical rail spur that extended from the tank farm area to the railroad tracks present adjoining north of the Site. PCBs have been identified in shallow soils within these areas at concentrations up to 2,400 mg/kg and are generally limited to the upper four to six feet of soils, though the need for additional vertical delineation persists in limited areas. The most elevated concentrations of PCBs are predominantly located beneath the eastern edge of the Western Site Building, and generally reduce in magnitude to the west.

On-Site soils are also impacted with TPH. While regulatory closure was historically granted for the Site associated with the TPH impacts, additional TPH-impacted soils are anticipated to be encountered outside the previous remediation areas. These soils may also contain petroleum-based VOCs, though significant concentrations of VOCs have not historically been detected in on-Site soils. To address the potential for encountering TPH-

impacted soils, as well as VOCs potentially related to these petroleum compounds, excavation and earthwork activities in the areas with identified PCB/TPH impact to soils will be conducted in accordance with South Coast Air Quality Management District (SCAQMD) Rules 1166 and 1466 in order to mitigate potential risk to workers, the community, and the environment during excavation and earthwork activities. Additional information on the applicability and execution of the proposed Site work in accordance with Rules 1166 and 1466 are discussed in subsequent sections, and in **Section 7.0**.

3.3.2 Groundwater

Groundwater is present underlying the Site at a depth of approximately 100 ft bgs. Impacted soils are generally restricted to the upper six feet of on-Site soils, based on the results of previous Site investigation activities. Accordingly, the potential for groundwater impacts associated with the shallow soil impacts identified at the Site is negligible.

3.3.3 Soil Vapor

Based on the Site history, historical investigations, and the nature of the historical manufacturing activities conducted at the Site, the potential for significant soil vapor VOC impacts at the Site is considered to be minimal. Historical activities are not suspected to have included the significant use of chlorinated solvents, and significant concentrations of VOCs have not been detected in Site soils. TPH impacts identified at the Site have generally consisted of longer-chain hydrocarbons (TPH-d to TPH-o), and accordingly, significant concentrations of BTEX and fuel oxygenates, which are generally associated with lighter gasoline-range hydrocarbons (TPH-g), are not anticipated to be present. However, during the excavation work, the characterization of stockpiled soils will include VOC analysis by USEPA Method 8260B, and in the event that significant VOC impacts are identified in these samples, additional actions related to the potential presence of significant vapor-phase VOCs will be evaluated as needed. Additionally, based on the known presence of petroleum-impacted soils and the corresponding potential for petroleum-related VOCs to be encountered during excavation activities to some degree, excavation and earthwork activities in the areas with identified PCB/TPH impact to soils will be conducted in accordance with SCAQMD Rules 1166 and 1466 in order to mitigate potential risk to workers, the community, and the environment during excavation and earthwork activities associated with the potential presence of VOCs within the disturbed soils. Additional information on the applicability and execution of the proposed Site work in accordance with Rules 1166 and 1466 are discussed in subsequent sections and in **Section 7.0**.

3.3.4 Data Gaps

The CSM and supporting data describe the nature and distribution of PCBs at the Site. The following data gaps were identified:

- The western and southern extent of PCB impacted soils have not been fully delineated to 1 mg/kg; and
- The vertical extent of impacts has not been fully delineated to 1 mg/kg in approximately 6 boring locations.

Current Site conditions are not conducive to further sampling in the western and southern directions, particularly inside the Western Site Building; however, once remaining obstructions are confirmed to no longer be present following the recent vacating of the Site by the prior tenant, these areas will be available for further characterization. Based on the extent of historical Site operations, it is considered very unlikely that the impacts may extend significantly further in either direction. Additionally, because the properties to the south and west were both developed and paved at the time when the Site redevelopment occurred in the late 1980s, the likelihood that grading activities may have spread contaminated soils beyond the property boundaries is very low.

The additional vertical delineation needed in approximately 6 boring locations, along with addressing the horizontal delineation to the south and west, will be addressed as part of the execution of the Remedial Design and Implementation Plan (RDIP) discussed in **Section 7.0**. No other data gaps have been identified, and Geosyntec does not recommend additional on-Site investigations prior to initiating the remedial activities recommended in this work plan other than those planned to be conducted as part of the RDIP.

3.4 Exposure Pathways Evaluation

Exposure pathways for PCBs and TPH in soil at the Site have been evaluated to assess potential impacts to human health and the environment. Direct ingestion/inhalation of soil is not currently a complete exposure pathway due to the impacted soils being located beneath hardscape surfaces (i.e., asphalt, concrete, and/or buildings). However, direct ingestion/inhalation has been identified as a complete exposure pathway for future construction workers during Site redevelopment. When institutional controls are employed (i.e., paved surfaces, engineered cap, land use controls, etc.), the direct ingestion/inhalation exposure pathway for future Site occupants is incomplete. Migration of PCB-impacted sediments from stormwater runoff during Site redevelopment activities also represents a potential exposure pathway.

Underlying groundwater has not been analyzed for PCBs. However, the vertical extent of PCB impacts is very shallow (i.e., within the top 4 to 6 ft bgs). There is negligible potential for PCBs to have impacted groundwater, anticipated to be located approximately 100 ft bgs at Site; thus, this is considered to represent an incomplete exposure pathway.

3.5 Potential Receptors

Based on the above exposure pathway analysis, potential receptors include future construction workers and the public during Site redevelopment, primarily during grading and subsurface activities. Stormwater runoff also represents a potential complete exposure pathway to off-Site receptors and the environment when potentially impacted soils are exposed during Site redevelopment; thus, appropriate stormwater best management practices (BMPs) will be required during redevelopment activities. When institutional controls are employed (i.e., paved surfaces, engineered cap, land use controls, etc.), the direct ingestion/inhalation exposure pathway for future Site occupants is incomplete. The Site is fully paved and there is currently not a complete exposure pathway to potentially-impacted subsurface soils; thus, present-day Site visitors (and present-day occupants, if the Site were currently occupied) do not represent potential receptors.

Sensitive receptors in the vicinity of the Site to be avoided to the extent possible during construction include residential areas approximately 500 feet to the south, a park 1,200 feet to the southwest and schools 1,800 feet to the southwest.

3.6 Exposure Concentrations

The maximum detected concentration of total PCBs and TPH in soil was used to compare to screening levels (Section 4) for a commercial exposure scenario based on the current and proposed uses of the Site. The maximum reported PCB concentration from Geosyntec's investigations was Aroclor 1248 at a reported concentration of 2,400 mg/kg on the southeastern interior of the building in 2021. The maximum concentration of TPH documented to have been left in place following the historical investigation and excavation activities was 3,200 mg/kg.

3.7 Identification of Screening Criteria

The threshold specified in 40 CFR § 761 for the delineation of soils impacted with PCBs, and the threshold for defining the impacted media as "PCB Remediation Waste" is 1 mg/kg of total PCB aroclors. This concentration is considered to be very conservative,

and the presence of PCBs at concentrations above the TSCA threshold for PCB Remediation Waste may not pose a significant threat to human health and the environment given that the appropriate institutional controls are set in place.

Screening criteria selected for TPH consist of Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) screening levels for commercial soils (DTSC SLs) for TPH of 500 mg/kg (C9-C16 aromatic medium) and 18,000 mg/kg (C17-C32 aromatic high) (DTSC, 2022).

For other analytes potentially encountered in waste characterization samples collected from stockpiled soils, the results will be compared to the most appropriate state or federal screening standards for a given analyte, which is anticipated to primarily consist of DTSC SLs. Where a DTSC SL has not been established for a given analyte, results will be compared to their respective USEPA Regional Screening Levels (RSLs) (USEPA, 2022).

4.0 SOIL EXCAVATION GOALS AND OBJECTIVES

4.1 Remedial Action Objectives

Remedial action objectives (RAOs) are developed with the intent to protect human health and the environment from exposure to hazardous substances and petroleum products.

Geosyntec developed the following RAOs:

- Reduce potential exposure of human receptors to COCs in soil via applicable exposure pathways, including direct contact, inhalation of dust, and accidental ingestion;
- Reduce the human health-based risks associated with residual soils impacted with Site-specific COCs to levels that are acceptable for the proposed low-occupancy commercial land use; and
- Manage stormwater during redevelopment activities to reduce the potential for off-Site transport of contaminants.

4.2 Applicable or Relevant and Appropriate Requirements (ARARs)

ARARs are federal and state environmental statutes, regulations, and standards. Applicable requirements are federal or state laws or regulations that specifically address a hazardous substance, pollutant, contamination, removal action, or location. Relevant and appropriate requirements are standards that, while not “applicable,” address problems or situations sufficiently similar to those encountered that their use is well-suited to the particular site.

ARARs associated with the remediation of soils impacted by PCBs is governed by TSCA, which includes regulations for the cleanup and disposal of PCB contamination. These regulations are overviewed in 40 CFR § 761, primarily the PCB Remediation Waste provision within 40 CFR § 761.61, which describes proper characterization and management of PCB wastes generated from spills and associated cleanup actions. This RAP has been prepared to fulfill applicable requirements of a risk-based cleanup approach as defined in 40 CFR § 761.61(c). Additional ARARs identified to support this project in addressing PCB impacted soils include the USEPA’s November 2005 *Polychlorinated Biphenyl (PCB) Site Revitalization Guidance Under the Toxic Substances Control Act (TSCA)* (PCB Revitalization Guidance) (USEPA, 2005) and the *PCB Facility Approval Streamlining Toolbox* (PCB FAST) (USEPA, 2017).

ARARs used to evaluate areas of soil containing TPH that may pose a potential risk to human health consist of commercial/industrial DTSC SLs for TPH of 500 mg/kg (C9-C16 aromatic medium) and 18,000 mg/kg (C17-C32 aromatic high) (DTSC, 2022). For other analytes potentially encountered in excavated soils, waste characterization results will be compared to the most appropriate State screening standards for a given analyte, which is anticipated to primarily consist of DTSC SLs. Where a DTSC SL has not been established for a given analyte, results will be compared to their respective USEPA RSLs (USEPA, 2022).

Additionally, ARARs used to characterize RCRA hazardous waste streams will be applied to samples collected for waste characterization purposes, with associated additional laboratory analyses for toxicity characteristic leaching procedure (TCLP), soluble threshold limit concentration (STLC), total threshold limit concentration (TTLC), and potentially other analyses where required by the accepting facility.

Excavated soils have the potential to contain petroleum products and associated petroleum-related VOCs, and may potentially generate dust that is impacted with PCBs and petroleum compounds. Therefore, relevant ARARs for managing petroleum-impacted soils and potentially contaminated dust during earth moving activities include SCAQMD Rules 1166 and 1466, respectively. Additional ARARs for dust management consist of the recommended dust control and monitoring methods outlined within the PCB FAST (USEPA, 2017) where they are more stringent than the dust control and monitoring methods described in Rule 1466, and/or are more appropriate for addressing dust potentially impacted with PCBs.

4.3 Cleanup Goals

Relevant cleanup criteria for each COC were selected and are shown in the table below:

Constituent of Concern	Relevant Cleanup Criteria (mg/kg)	Basis
PCB aroclors	25 mg/kg	USEPA PCB Revitalization Guidance, Cleanup Levels for Low Occupancy Areas, 2005
Shorter Chain TPH	500 mg/kg	DTSC SL for TPH Aromatic Medium [C9-C16]
Longer Chain TPH	18,000 mg/kg	DTSC SL for TPH Aromatic High [C17-C32]

Notes:

mg-kg – milligram per kilogram

PCB – polychlorinated biphenyl

SL – Screening Level

TPH – Total petroleum hydrocarbons

Soil cleanup goals for total PCBs were developed based on the USEPA’s PCB Revitalization Guidance (USEPA, 2005). Given that the extent of PCB impacted soils at the Site are located in areas that are planned for paved parking or for self-storage units with no regular occupancy, the cleanup goals were selected to align with the PCB cleanup levels in bulk remediation waste for low occupancy areas, as described in the PCB Revitalization Guidance. Soils impacted with PCBs will be delineated to 1 mg/kg total PCB aroclors.

No other analytes were identified in historical Site information in excess of applicable screening levels. However, other analytes encountered in waste characterization samples collected from stockpiled soils will be compared to the most appropriate state or federal screening standards for a given analyte, which is anticipated to primarily consist of DTSC SLs (DTSC, 2022). Where a DTSC SL has not been established for a given analyte, results will be compared to their respective USEPA RSLs (USEPA, 2022). Analytes detected in excess of applicable screening levels in stockpiled soils will be noted, and the additional analyte will be included in post-excavation confirmation sampling for the areas in which the stockpiled soils were derived. These excavations may potentially be extended based on observed exceedances in these confirmation samples.

5.0 EVALUATION OF REMEDIAL ALTERNATIVES

Applicable remedial alternatives were screened using the three criteria as described below: implementability, effectiveness, and cost.

5.1 Identification and Analysis of Removal Action Alternatives

Based on the delineation provided by the recent Site investigation activities described in Section 3.3, the total volume of soils potentially impacted with COCs at the Site is estimated to be approximately 5,600 cubic yards (CY). It is assumed that the soils in these areas are impacted with both PCBs and TPH to varying degrees. The remedial alternatives that will be evaluated are:

- Alternative 1 – No action
- Alternative 2 – Targeted Excavation with Consolidation Cell and Off-Site Disposal
- Alternative 3 – Excavation and Off-Site Disposal

5.1.1 Alternative 1: No Action

This alternative has been included to provide a baseline for comparisons among other removal alternatives. This alternative would not require implementing any measures at the Site, and only SCAQMD permitting and monitoring during construction activities are included. This action includes no institutional controls, no treatment of soil, and no other monitoring.

5.1.2 Alternative 2: Targeted Excavation with Consolidation Cell and Off-Site Disposal

This remedial alternative assumes targeted excavation of impacted soils containing total PCB concentrations in excess of 25 mg/kg, which is conservatively anticipated to total approximately 750 CY, with approximately 390 CY of this soil anticipated to have total PCB concentrations in excess of 100 mg/kg. Excavated soil stockpiles will be characterized via composite soil sampling with soils containing total PCBs at concentrations greater than 100 mg/kg disposed off-Site as non-RCRA waste in accordance with the disposal criteria of the accepting facility. Soils with PCB concentrations between 25 mg/kg and 100 mg/kg, or TPH concentrations above the cleanup goals, will be placed into a consolidation zone located in a future planned parking area. An engineered cap consisting of at least 10 inches of clean, low permeability soils (or equivalent) followed by a concrete parking lot cover will be constructed over the consolidation area. A Land Use Covenant (LUC) will be recorded with the City of Orange

restricting the Site to commercial/industrial use and potentially further restricting Site use to low-occupancy in the areas where concentrations of PCBs above 25 mg/kg have been identified to remain in place. Excavated areas outside the consolidation cell will be backfilled with clean, imported soil.

This remedial alternative is consistent with the recommendations for PCB waste management in low-occupancy areas described in the PCB Revitalization Guidance (USEPA, 2005), and assumes targeted excavation of impacted soils containing total PCB concentrations in excess of 25 mg/kg based on the prior soil delineation activities described in Section 3.3 and further delineation of PCB-impacted soils to 1 mg/kg prior to commencing excavation activities.

5.1.3 Alternative 3: Excavation and Off-Site Disposal

This remedial alternative assumes excavation of impacted soils containing total PCB concentrations in excess of 1 mg/kg, which is anticipated to total approximately 5,600 CY. Excavated soil stockpiles will be characterized via composite soil sampling with soils containing total PCBs at concentrations greater than 1 mg/kg disposed off-Site as a non-RCRA hazardous waste.

5.2 Evaluation Criteria

Each removal action alternative was independently analyzed without consideration to the other alternatives based on implementability, effectiveness and cost.

5.2.1 Implementability

The implementability criterion consists of the technical and administrative feasibility of a remedial option. Considerations include reliability, subcontractor, vendor and equipment availability, administrative items, site constraints, cost effectiveness, and the ability to construct, operate, and comply with regulations and other requirements.

5.2.2 Effectiveness

In the effectiveness evaluation, the following factors are considered:

- Overall Protection of Human Health and the Environment - whether the removal alternative provides adequate protection to human health and the environment and is able to meet the Site's RAOs.

- Compliance with ARARs and other criteria to be considered - Ability of the removal alternative to comply with ARARs and criteria of consideration.
- Short-Term Effectiveness - Effects of the removal alternative during the construction and implementation phase until removal objectives are met. It accounts for the protection of workers and the community during removal activities and environmental impacts from implementing the removal action. This factor may also include whether or not the remedy would be generally accepted by the community and weigh the impacts of implementing the remedy against the benefits.
- Long-Term Effectiveness and Permanence - Addresses issues related to the management of residual risk remaining on Site after a removal action has been performed and has met its objectives. The primary focus is on the controls that may be required to manage risk posed by treatment residuals and/or untreated wastes.
- Reduction of Toxicity, Mobility, or Volume - Evaluates whether the removal technology results in significant reduction in toxicity, mobility, or volume of the hazardous substances.

5.2.3 Relative Lifecycle Cost

The Relative Lifecycle Cost criterion considers the cost over the entire lifecycle of an alternative, including initial implementation costs, ongoing operation, maintenance, and monitoring (OM&M), and any other periodic costs anticipated for the duration of the remedial alternative. Cost estimates for remedial alternatives are rough order of magnitude (ROM) costs and are considered sufficiently accurate to support selection of preferred remedial alternatives.

5.3 Alternatives Evaluation Summary

The identified remedial alternatives are discussed in detail below. Because PCBs are considered to be the Site-specific COC that represents the most significant potential risk, and the COCs are anticipated to be present in the same areas, the alternatives are primarily discussed in terms of addressing total PCB impacts. ROM cost estimates for each alternative are presented in **Table 2**.

Alternative 1: No Action

This remedial alternative assumes no action other than the overall excavation, grading, paving, and construction work associated with the proposed redevelopment.

- Implementability: While this alternative is easy to implement because it does not involve active remedial measures, it would be very unlikely to receive approval and acceptance by the regulatory agencies and the community and thus scores very low. It is anticipated that this alternative would require active monitoring during execution in accordance with SCAQMD Rules 1166 and 1466.
- Effectiveness: This alternative is anticipated to disturb impacted soil, so the short-term risk to human receptors would be present and this alternative is therefore not protective in the short-term. This remedy is not likely to be generally accepted by the community. No long-term remedial/mitigative measures (including institutional controls) would be conducted; thus, this alternative is not protective of human health and the environment, does not comply with ARARs and RAOs, and would require the maximum amount of future oversight to manage the long-term residual risk as there is no net reduction in toxicity, mobility, or volume of the contaminant mass.
- Relative Lifecycle Cost: The estimated cost for this alternative is approximately \$200,000. It includes only the costs associated with SCAQMD permitting and monitoring during construction activities.

Alternative 2: Targeted Excavation with Consolidation Cell and Off-Site Disposal

This remedial alternative assumes targeted excavation of impacted soils containing total PCB concentrations in excess of 25 mg/kg, approximately 750 CY. Excavated soils containing total PCBs at concentrations greater than 100 mg/kg, approximately 390 CY, will be disposed off-Site while soils containing PCBs between 25 mg/kg and 100 mg/kg will be consolidated and capped with at least 10 inches of clean, low permeability soils (or equivalent) followed by a concrete parking lot cover in an onsite consolidation cell.

- Implementability: This alternative is more logistically challenging compared to Alternatives 1 and 3 and requires more technical considerations in regard to construction phasing and stockpiled soil management to reduce potential exposure risk to construction workers and the public during project execution. However, proper execution will result in substantially less soil disturbance compared to Alternative 3. Additionally, the cap-related materials will need to be procured and installed in accordance with the engineering design, including the use of soils and paving materials with specific physical characteristics. An engineered cap would also require relatively minor long-term OM&M to ensure

that the cap remains effective in the future. This alternative is likely to be viewed more favorably than Alternative 1 but potentially less favorably than Alternative 3 by the community, as some impacted material is remaining in place. The alternative is likely to receive approval and acceptance by the regulatory agencies, however. Implementability of this alternative is rated moderate.

- Effectiveness: This alternative results in the excavation and disposal of approximately 750 CY of excavated soils identified to contain significant concentrations of PCBs, consolidation of soils with moderately elevated concentrations of PCBs, and placement of an engineered cap over the consolidation zone.

In the long term, the combination of 1) installation of an engineered cap over the consolidation zone; 2) placing concrete surfaces over other areas considered to potentially contain shallow soils impacted with PCBs; 3) the planned future low-occupancy commercial scenario represented by the planned self-storage facility; and 4) establishing an LUC restricting Site usage would meet the RAOs, and an OM&M plan would ensure its continued effectiveness. In the short term, with proper execution of the remediation phases, earthmoving activities during redevelopment would represent a minimal risk to construction workers and to the public given the appropriate controls are maintained. There is also a net reduction in toxicity, mobility or volume of the most impacted portion of the PCB mass as the soils impacted above 100 mg/kg will be disposed offsite. As this alternative is relatively protective of human health and the environment, will comply with ARARs and RAOs, and would require minimal future oversight to manage the long-term residual risk, the effectiveness of this alternative is rated good.

- Relative Lifecycle Cost: The estimated cost for this alternative is approximately \$871,000. It includes the costs associated with permitting, monitoring, and sampling during excavation, stockpiling of soil, characterization, transport/offsite disposal to a landfill, on-Site soil consolidation and capping, and recording of a LUC, and long-term OM&M activities associated with the cap. The cost is rated as good.

Alternative 3: Excavation and off-Site disposal of soils containing total PCBs above 1 mg/kg.

This remedial alternative assumes any soils in all areas in which PCBs have been detected above 1 mg/kg will be excavated and exported for offsite disposal as a non-RCRA hazardous waste.

- Implementability: This alternative requires relatively less technical considerations than Alternative 2, because the excavation and disposal of impacted soils is relatively simple. However, there is a higher short-term exposure risk to onsite workers and to the public due to the significant quantities of potentially impacted soils being handled (approximately 5,600 CY), and there are significant logistical challenges associated with transportation planning to mitigate potential risk to the public during soil transport considering the quantity of soils that would be exported for off-Site disposal. Since the extent of PCB remediation waste would be removed, there would be no long-term OM&M requirements. This alternative would be very likely to receive approval and acceptance by the regulatory agencies and the community as it is the most protective. Implementability of this alternative is rated as very good.
- Effectiveness: This alternative is highly conservative and would result in excessive amounts of excavated soil (estimated at 5,600 CY) to be disposed offsite as a hazardous waste stream. Although this alternative is considered to be the most effective in the long-term at meeting RAOs (since the extent of impacted materials would be removed from the Site) and has the greatest long-term effectiveness, the cost for soil export and disposal would be excessive, and the short-term exposure risk to the construction workers and offsite receptors would be the most significant given the volumes of soil being handled and the potential for additional exposure during transport is due to the number of waste hauling trucks that would be required to transport the anticipated soil volumes. The net reduction in toxicity, mobility or volume of the bulk of the PCB volume as the soils impacted above 1 mg/kg gives this alternative a slightly higher effectiveness score over Alternative 2. The effectiveness is rated good.
- Relative Lifecycle Cost: The estimated cost for this alternative is approximately \$4,640,000. It includes the costs associated with permitting, monitoring, and sampling during excavation, stockpiling of soil, characterization, and transport/offsite disposal to a landfill. The cost is rated as very poor (expensive).

5.4 Analysis of Remedial Alternatives

A comparative analysis of remedial alternatives can be found in the table below. This table shows the evaluation criteria for each remedial action alternative and ranks each alternative on the above criteria based on a scale of one to five, with five being the most favorable.

Criteria	Alternative 1: No Action	Alternative 2: Targeted Excavation with Consolidation Cell and Off-Site Disposal	Alternative 3: Excavation and Off-Site Disposal
Implementability	1	3	5
Effectiveness (Average)	1.0	4.0	4.25
Overall Protection of Human Health and the Environment	1	3	4
Compliance with ARARs and other criteria to be considered	1	5	5
Short-Term Effectiveness	1	4	3
Long-Term Effectiveness and Permanence	1	4	5
Cost (Net Present Value, in \$Millions)	5 (\$0.2)	4 (\$0.87)	1 (\$4.6)
Relative Average Score	2.3	3.7	3.4

Based on the evaluation of the three alternatives, Alternative 2 is the most favorable remedy. It offers the appropriate mix of implementability and effectiveness while remaining a cost-effective solution.

6.0 PROPOSED REMEDIAL STRATEGY

This RAP identifies Alternative 2 as the most favorable remedy for the Site; this alternative includes targeted excavation and a combination of onsite consolidation, capping, and offsite disposal of soils impacted by Site-specific COCs, with PCBs being the primary risk driver. The proposed response actions are presented below.

6.1 Targeted Excavation and Soil Management

Targeted excavation of areas in which PCBs have been identified above 25 mg/kg will be conducted via a phased approach. As the planned demolition and reconstruction of the Site is highly conceptual at this stage, what follows is also a generalized summary of the anticipated excavation phasing, targeted toward minimizing soil exposure and stockpiling at a given time:

Phase I: Clearing and grubbing of any scrub or vegetation; demolish all Site structures and surface protrusions, leaving only building foundations and paving.

Phase IIa: Remove sections of the concrete foundation in approximately 25 feet by 25 feet square sections centered on each sampled location in which PCBs were previously identified above 25 mg/kg. Following removal of each individual section of foundation, soils will be removed to the depths in which previous sampling indicated PCBs were present above 25 mg/kg, with each excavation anticipated to extend out approximately 10 feet (~3 meters) from each historical sampling location, forming initial excavation cells of 20 feet by 20 feet (~6 meters by 6 meters). The extent of each initial excavation cell may be modified based on field observations, such as chemical odors or visual staining.

Following excavation, confirmation sampling will be conducted as described in Section 7.1.1. In the event that confirmation sidewall samples indicate that PCB impacts above 25 mg/kg are present beyond the current excavation extent, the excavation wall will be extended by 2 feet and resampled. If bottom floor samples indicate the extent of PCB impacts above 25 mg/kg are present below the depth of the excavation, the excavation will be extended downward one foot and resampled. This process will be continued until the concentrations of total PCBs in confirmation soil samples are below 25 mg/kg. For the purpose of estimating excavation volumes, it is assumed that the excavations will be extended out approximately 10 feet in each direction around each boring, forming a 20-foot by 20-foot excavation cell. Excavated soils will be stockpiled and segregated based upon their relative degree of contamination (See Phase III). The proposed area for the

consolidation cell (see Phase V below) will remain covered and will be excavated last, with its final dimensions based on the volume of soil planned for encapsulation.

Phase IIb: Following completion of delineation and excavation activities beneath the Western Site Building, excavation will proceed in the outdoor areas beneath the asphalt and other paved areas, in the same manner as completed in Phase IIa. Excavated soils will be stockpiled and segregated base upon their relative degree of contamination (See Phase III).

Phase III: Soils will be stockpiled based on the anticipated degree of relative contamination. Soils in the immediate vicinity of historical sample locations in which samples contained greater than 100 mg/kg, as well as soils exhibiting significant visual staining or olfactory indications of contamination, will be stockpiled separately from other soils. Excavated soil stockpiles will be characterized via composite soil sampling at the appropriate sampling frequency for the relative size of each stockpile, with soils containing total PCBs at concentrations greater than 100 mg/kg disposed off-Site as non-RCRA hazardous waste in accordance with the disposal criteria of the accepting facility.

Phase IV: Upon receipt of satisfactory sample results (i.e., PCBs <25 mg/kg and other constituents below applicable screening levels), each grid will be backfilled with clean soils from an offsite borrow source and appropriately compacted. Deeper soils excavated from the onsite consolidation cell (i.e., deeper than 6 feet) may also be used as backfill, assuming these soils are non-hazardous based on waste characterization results.

Phase V: Excavated soils that are not disposed offsite will be placed in an on-Site consolidation cell, as shown on **Figure 5**. The cell will be in the area currently occupied by the northeastern corner of the Western Site Building. This area was selected based on its planned exterior location relative to future buildings (**Appendix C**) and due to a higher frequency of PCB detections in samples above 25 mg/kg within previous sampling, making it more appropriate for a larger contiguous excavation compared to other areas where elevated PCBs in soils appear to be more isolated. Stockpiled soils with total PCBs at concentrations between 25 mg/kg and 100 mg/kg based on waste characterization sampling will be encapsulated within the consolidation cell. The approximate dimensions of the consolidation cell are 30 feet by 32 feet and 12 feet deep, though the actual dimensions will be based on the quantity of stockpiled soils pending encapsulation as well as potential expansion of the cell based on confirmation sampling (as needed). Impacted soils will be placed below 2 feet bgs to allow enough space for an engineered cap and clean soils to be placed beneath the final concrete cover. Stockpiled soils will be placed in the consolidation cell in lifts no greater than 12 inches and compacted.

6.2 Construction of an Engineered Cap

An engineered cap consisting of at least 10 inches of clean, low permeability soils (or equivalent) from off-site sources followed by a concrete parking lot cover will be designed and constructed to cover buried impacted soils within the consolidation zone. The cap will prevent direct contact with impacted soils, minimize infiltration of water into the underlying impacted soils, and prevent surface runoff of impacted soil to neighboring properties. Other areas in which in-place PCBs have been identified below the 25 mg/kg cleanup goal but above 1 mg/kg will also be finished with hardscape surfaces (i.e., concrete).

6.3 Institutional Controls

SCIND Batavia Point, LLC will record a land use control in accordance with California state law in the form of a LUC with the City of Orange, with the USEPA as a third-party beneficiary with the right to enforce the LUC. The LUC will define the identified extent of residual PCB contamination and the consolidation area, specify land use restrictions (prohibited use for residences, hospitals, schools, and daycare), cap maintenance requirements, future earthmoving requirements, and low-occupancy building requirements for areas identified to contain elevated levels of residual PCBs.

6.4 Maintenance Plan

Following completion of the construction activities, a maintenance plan will be submitted to USEPA. The maintenance plan will include an OM&M Plan to ensure the cap is properly maintained. The paved surface of the cap will be visually inspected at six-month intervals during the first year and then annually thereafter. Observations will be documented and photographs will be taken. If the cap is compromised (cracks, holes, or signs of deterioration), the cap will be repaired, as necessary.

The inspection observations, photographs, and repairs will be incorporated into a summary report submitted to USEPA annually. Five-Year Reviews will be conducted every five years to that the response action and RAOs are being upheld and that the remedy remains protective.

6.5 Applicable or Relevant and Appropriate Requirements

Personnel that may come into direct contact with potentially impacted Site soils must conduct their work in accordance with the most current requirements of State and Federal Standards for HAZWOPER (Cal. Code Regs., tit. 8, section 5192; 29 CFR 1910.120).

On-Site personnel are responsible for operating in accordance with all applicable regulations of the Occupational Safety and Health Administration (OSHA) outlined in the State General Industry and Construction Safety Orders (Cal. Code Regs., tit. 8) and Federal Construction Industry Standards (29 CFR 1910 and 29 CFR 1926), as well as other applicable federal, state, and local laws and regulations. All construction personnel shall operate in compliance with all California OSHA (Cal/OSHA) requirements.

7.0 IMPLEMENTATION OF RESPONSE ACTIONS

7.1 Remedial Design and Implementation Plan

The purpose of the Remedial Design and Implementation Plan (RDIP) will be to provide a technical document that specifies the proposed design and implementation methodology following USEPA's acceptance of the overall remediation strategy presented within this RAP. The primary objectives of the RDIP are:

- Provide details about the proposed response actions provided in this RAP;
- Present the design and implementation considerations for the proposed development features; and
- Provide supporting plans and documents to ensure that the construction activities are implemented in a manner than minimizes potential risk to onsite workers and offsite receptors.

7.1.1 Pre-Construction Plans

The RDIP will include the following Site- and project-specific plans:

Health and Safety Plan (HASP): A HASP will be prepared to cover all the activities associated with the implementation of the response actions and environmental components.

Air Quality Management Plan (AQMP): Dust control and air quality monitoring procedures will be outlined in an AQMP. As described in the AQMP, dust control measures will be implemented during the handling of impacted soils to minimize generation of visible airborne dust, offsite migration of fugitive dust, and work and public exposure to onsite contaminants on dust particles. The AQMP will be prepared in accordance with SCAQMD Rules 1166 and 1466. Rule 1166 outlines permitting, emissions, and monitoring requirements for handling soils that are potentially impacted with VOCs or petroleum compounds during earth-moving activities. Rule 1466 applies to any owner or operator conducting earth-moving activities with soil potentially containing toxic air contaminants (TACs) as defined within the Rule.

Storm Water Pollution Prevention Plan (SWPPP): A SWPPP will be prepared in advance of mobilization and will comply with the terms of the General Permit for stormwater discharges associated with construction and land disturbance activities.

Sampling and Analysis Plan (SAP): A SAP will be prepared to outline the requirements for the confirmation soil sampling program and waste disposal sampling. The SAP will also include details on the confirmation sampling program and waste disposal sampling program, summarized below:

Confirmation Soil Sampling: Confirmation soil samples will be collected at the base and sidewalls of the onsite excavations to confirm the adequate removal of impacted soils with total PCBs above 25 mg/kg. Confirmation samples will be collected as follows:

- Contiguous Excavation Areas (>2,500 square feet):
 - Excavation Bottom Sampling: One confirmation sample will be collected every approximately 2,500 square feet of excavation footprint area (50 foot by 50 foot area). The samples will be submitted to a state-certified laboratory for analysis for PCBs by USEPA Method 8082 using extraction method SW3550B.
 - Sidewall Sampling: Sidewall sampling will also be completed to confirm the vertical extent of sampling. Samples will be collected every 50 linear feet along the sidewall. One sample will be collected at the base of each two-foot interval to the base of the excavation to demonstrate both the vertical and horizontal removal of soils exceeding total PCBs above 25 mg/kg. The samples will be submitted to a state-certified laboratory for analysis for PCBs by extraction method SW3550B and USEPA Method 8082.
- Small or Non-Contiguous Areas (<2,500 square feet)
 - Excavation Bottom Sampling: One confirmation sample will be collected per excavation footprint area. The samples will be submitted to a state-certified laboratory for analysis for PCBs by extraction method SW3550B and USEPA Method 8082.
 - Sidewall Sampling: Sidewall sampling will also be completed to confirm the vertical extent of sampling. Samples will be collected from one location within each sidewall of the excavation, with at least one sample collected every 50 linear feet. One sample will be collected at the base of each two-foot interval to the base of the excavation to demonstrate both the vertical and horizontal removal of soils exceeding total PCBs above 25 mg/kg. The samples will be submitted to a state-certified laboratory for

analysis for PCBs by extraction method SW3550B and USEPA Method 8082.

In addition to the confirmation sampling described above, the areas toward the western and southern edges of the property, where delineation to 1 mg/kg total PCBs was not practicable due to the presence of obstructions associated with the prior Site tenant, will be conducted once the removal of obstructions can be confirmed but prior to building demolition. The results of the additional sampling (and any additional areas anticipated to require excavation based on total PCB concentrations detected in excess of 25 mg/kg) will be provided within the RDIP.

Waste Disposal: Samples collected during the excavation confirmation sampling described above will be additionally analyzed to provide data to evaluate off-Site disposal options, as needed. Stockpiled soils with samples containing PCBs at concentrations greater than 100 mg/kg will be disposed off-Site as non-RCRA waste in accordance with the disposal criteria of the accepting facility. Ultimate classification of the soil for disposal purposes (i.e., disposal as non-hazardous waste, California hazardous waste, non-RCRA vs. RCRA hazardous waste) will be based on these results, and soils will be segregated and stockpiled based on location relative to the sampled areas.

7.2 Pre-Construction Activities

Preconstruction activities will commence once the RDIP has been submitted and include procurement of subcontractors, preparation of the Site for construction and obtaining the necessary permits and approvals to begin work.

7.2.1 Permits and Approvals

The proposed remediation and Project would require, but not necessarily be limited to the following environmental permits and approvals:

- City of Orange:
 - Site plan review;
 - Grading permit; and
 - Building and other construction permits, as applicable.
- South Coast Air Quality Management District:
 - Notifications associated with Rules 1166 and 1466; and
 - Compliance with other SCAQMD rules, as applicable;

- Orange County Health Care Agency:
 - Notification of RAP approval by USEPA;
- USEPA:
 - Approval of the RAP and RDIP;
 - Approval of TSCA application for risk-based disposal of PCBs;
 - Review of clean fill sources; and
 - Certificate of Completion upon completion of the RAP response actions.

7.3 Construction Activities

Mobilization and construction activities will commence after the city approves all the proposed plans, USEPA has approved the RAP and RDIP, and the necessary permits are obtained. Construction activities associated with the response actions will likely include, but not be limited to the following main tasks:

- Clearing and grubbing/Site cleanup;
- Demolition of Site structures;
- Systematic removal of foundations and paving and excavation of soils beneath;
- Stockpile management; and
- Construction of the engineered cap.

Extensive environmental monitoring of all earth-moving activities will be implemented in accordance with applicable SCAQMD and USEPA requirements. During all clearing, grading, and construction activities within the identified extent of areas with potential PCB and petroleum hydrocarbon impacts, the approved RDIP will be followed by workers to maintain a safe and healthy environment. The RDIP will provide protocols such that dust is monitored and minimized, odors (if any) are controlled, contaminated soil is properly managed, and waste generated at the Site is responsibly and safely handled. Real-time monitoring specified in the RDIP will allow field personnel to implement mitigation measures, if necessary.

Based on the current grading plan and estimated volumes, it is anticipated that up to 360 cubic yards of clean import soil may be required to establish the planned grades. The

clean soil will be obtained from a pre-characterized and pre-approved import soil source that satisfies the USEPA.

7.4 Reporting

Following construction activities, a Response Action Completion Report (RACR) will be prepared and submitted to USEPA for review and approval. The RACR will include a summary of response actions implemented in the field and include field documentation, manifest copies, documentation of any modifications to the RDIP, and photographs, as applicable.

8.0 POTENTIAL FURTHER RESPONSE ACTIONS BASED ON DISCOVERY OF UNKNOWN HAZARDOUS MATERIALS

There is the potential that the subsurface is also impacted with other hazardous substances associated with the petroleum products historically manufactured at the Site. If soil staining or petroleum odors are observed during future earthmoving activities, Geosyntec will evaluate the material and handle it in accordance with the forthcoming RDIP. Work will be conducted in compliance with SCAQMD Rules 1166 and 1466 for the identification of soils potentially impacted with petroleum products and/or VOCs, and stockpiled soils are anticipated to be additionally sampled for VOCs and Title 22 Metals for waste characterization purposes in accordance with the criteria of the accepting waste facility; thus, the potential presence of unanticipated hazardous materials will be identified and addressed through field control measures and waste characterization sampling protocols.

A Site-specific SAP to be submitted to USEPA as part of the RDIP will provide details for handling unexpected conditions or unknown/potentially hazardous materials in soils. Unexpected conditions or unknown hazardous materials potentially encountered during Site development activities will be handled as follows, especially if they pose an unreasonable risk to human health and safety or the environment:

- If potential impacted soil (i.e., soil that is visibly stained, discolored, oily, or has a noticeable chemical odor) is encountered during earthwork activities, it will be stockpiled and handled separately than other stockpiled soils. The soils will be covered with plastic sheeting or temporarily stabilized until analytical samples can be collected and results confirm that soils can either be disposed of in the on-Site consolidation cell or disposed offsite.
- In addition to Site-specific COCs, analytes detected in excess of applicable screening levels (as described in Section 4.3) in stockpiled soils will be noted, and the additional analyte will be included in post-excavation confirmation sampling for the areas in which the stockpiled soils were derived. These excavations may potentially be extended based on observed exceedances in these confirmation samples.
- If drums or potentially hazardous materials are encountered during excavation, a qualified environmental professional and USPEA will be notified. The drums or materials will be handled and disposed off-Site in accordance with relevant and applicable regulations after being adequately characterized.

- Based on historical on-Site investigations, there are no known underground storage tanks (USTs) within the Project boundary. However, in the event that a UST is encountered during earthwork, a qualified environmental professional and USEPA will be notified, and appropriate State and local regulatory agencies will be informed. Removal of the UST will be conducted by a qualified contractor such that damage to the UST and/or a release of its contents to the subsurface is avoided. Following removal of the UST, any environmental investigations and/or mitigation actions deemed necessary will be conducted under the direction of the applicable regulatory agencies.
- Underground structures encountered during earthwork will be inspected by a qualified environmental professional to assess whether residual chemicals are present based on visual/olfactory observations, or measurements taken with a PID. If field observations and/or PID readings indicate that chemicals are or may have been present within the structure, the contents will be sampled and the structure inspected for cracks/holes. If there is evidence of a release of the structure's contents to surrounding soils, additional environmental assessment may be necessary. Removal of the structure will be conducted under the guidance of a qualified environmental professional and USEPA.
- Dewatering will be performed in the event that liquids are encountered during excavation activities. The liquids will be temporarily stored in drums, characterized and disposed off-Site in an approved waste handling facility.

9.0 PROJECT SCHEDULE

The preliminary project schedule is outlined below.

Onsite mobilization will be coordinated immediately following USEPA Region 9's approval of this RAP and issuance of required permits. Field activities will begin immediately following mobilization. Site preparation, building demolition, and excavation/grading work will be completed within two months after mobilization.

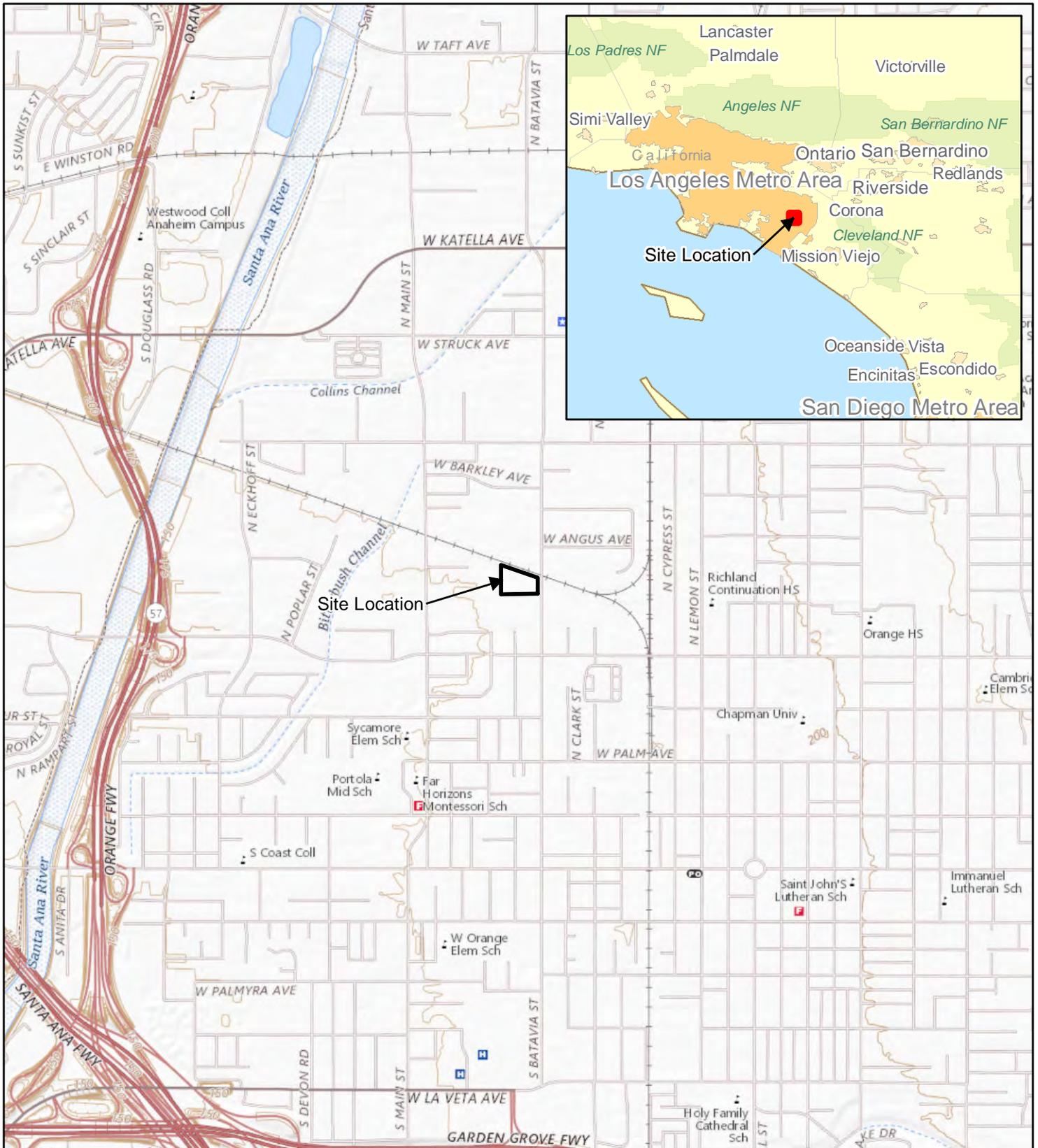
Following field activities, Geosyntec will prepare a report detailing field activities (including pre-field work, demolition, excavation/remediation, laboratory analyses, grading, and redevelopment) as described in Section 7.4. This report will be submitted within 60 days after field work is completed.

The project sequence and timeline described above are subject to change in consultation with the selected subcontractors and USEPA Region 9. A more detailed project schedule will be submitted as part of the RDIP.

10.0 REFERENCES

- California Division of Mines and Geology (CDMG), 1965. *Geologic Map of California, Santa Ana Sheet; Scale 1:250,000*.
- California Regional Water Quality Control Board (CRWQCB), 1995. *Santa Ana River Basin [8] Water Quality Control Plan*. January.
- DTSC, 2022. *Human Health Risk Assessment Note 3 – DTSC-Modified Screening Levels (DTSC-SLs)*, Released June 2020 – Revised May 2022. May.
- South Coast Air Quality Management District (SCAQMD), 2022. <https://www.aqmd.gov/home/rules-compliance/compliance/rule-1466>
- SCAQMD, 2022. <http://www.aqmd.gov/home/rules-compliance/compliance/rule-1166-site-specific-and-various-locations-soil-mitigation-plan>
- USEPA, 2005. *Polychlorinated Biphenyl (PCB) Site Revitalization Guidance Under the Toxic Substances Control Act (TSCA)*. November.
- USEPA, 2017. *PCB Facility Approval Streamlining Toolbox, A Framework for Streamlining PCB Site Cleanup Approvals*. May.
- USEPA, 2022. *Regional Screening Levels*. November.
- United States Geological Survey (USGS), 1964. *7.5 Minute Quadrangle Topographic Map, Orange/Anaheim, California; Scale 1:24,000*.

FIGURES



Legend
 Site Location



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS



Site Location Map

630 North Batavia Street,
 Orange, California

Geosyntec
 consultants

Figure

1

SC1123-13

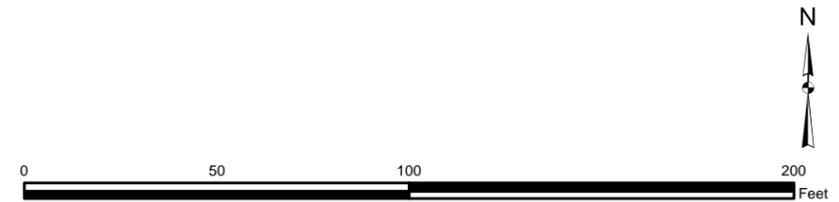
March 2023



Legend

- Approximate Site Boundary
- Rail Line
- Site Feature

Notes:
All locations are approximate.

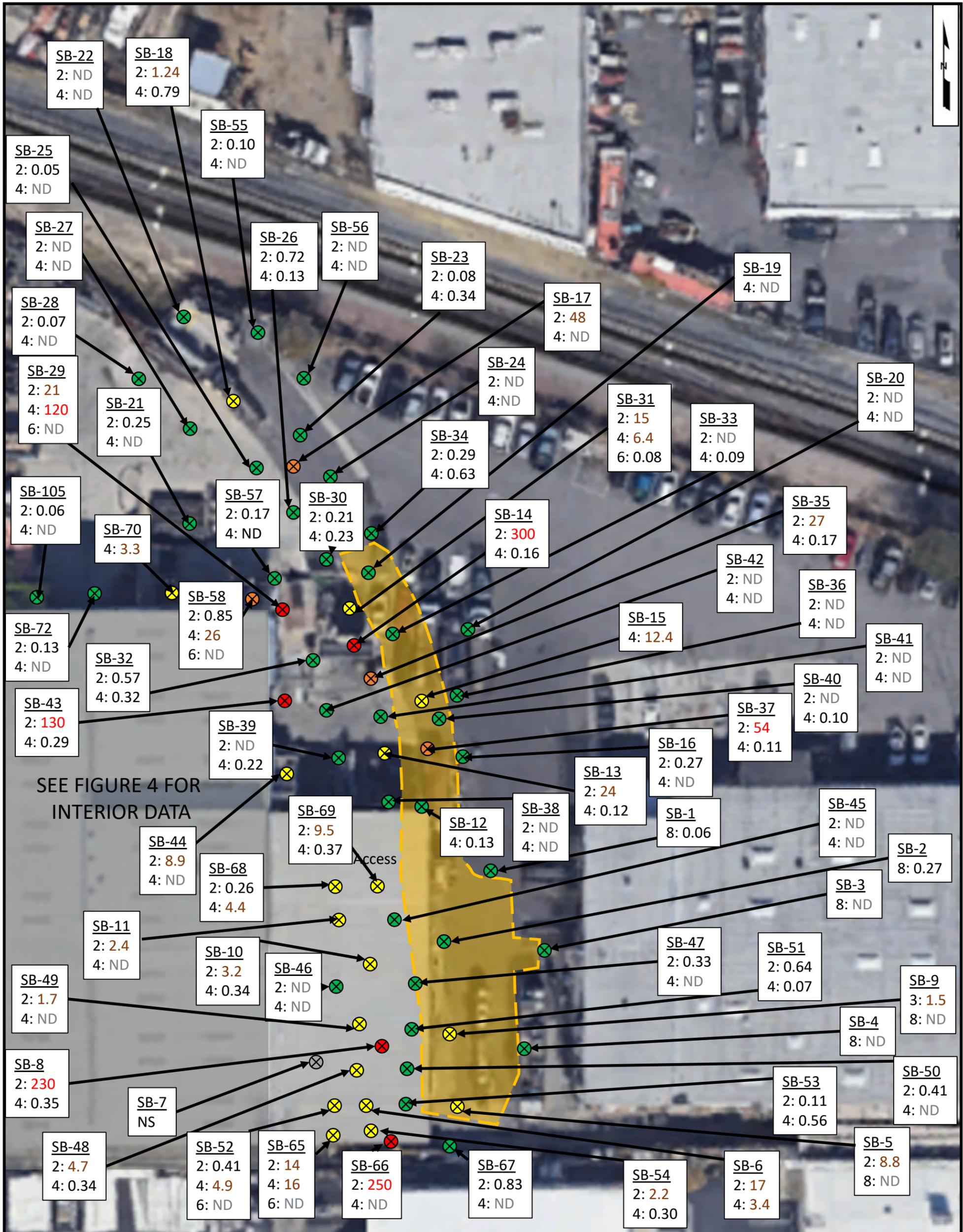


Site Layout Map
630 North Batavia Street,
Orange, California

Geosyntec
consultants

SC1123-13 March 2023

Figure
2



- ⊗ Soil Boring (Total PCBs < 1 ppmv)
- ⊗ Soil Boring (1 ppmv < Total PCBs < 25 ppmv)
- ⊗ Soil Boring (25 ppmv < Total PCBs < 100 ppmv)
- ⊗ Soil Boring (Total PCBs > 100 ppmv)
- ⊗ Not Drillable
- Approximate extent of historical excavation

Notes:
 Concentrations are depicted in milligrams per kilogram (mg/kg) / parts per million by volume (ppmv)
 Locations and dimensions are approximate
 ND: not detected above laboratory reporting limits
 NS: not sampled due to inability to drill or no recovery

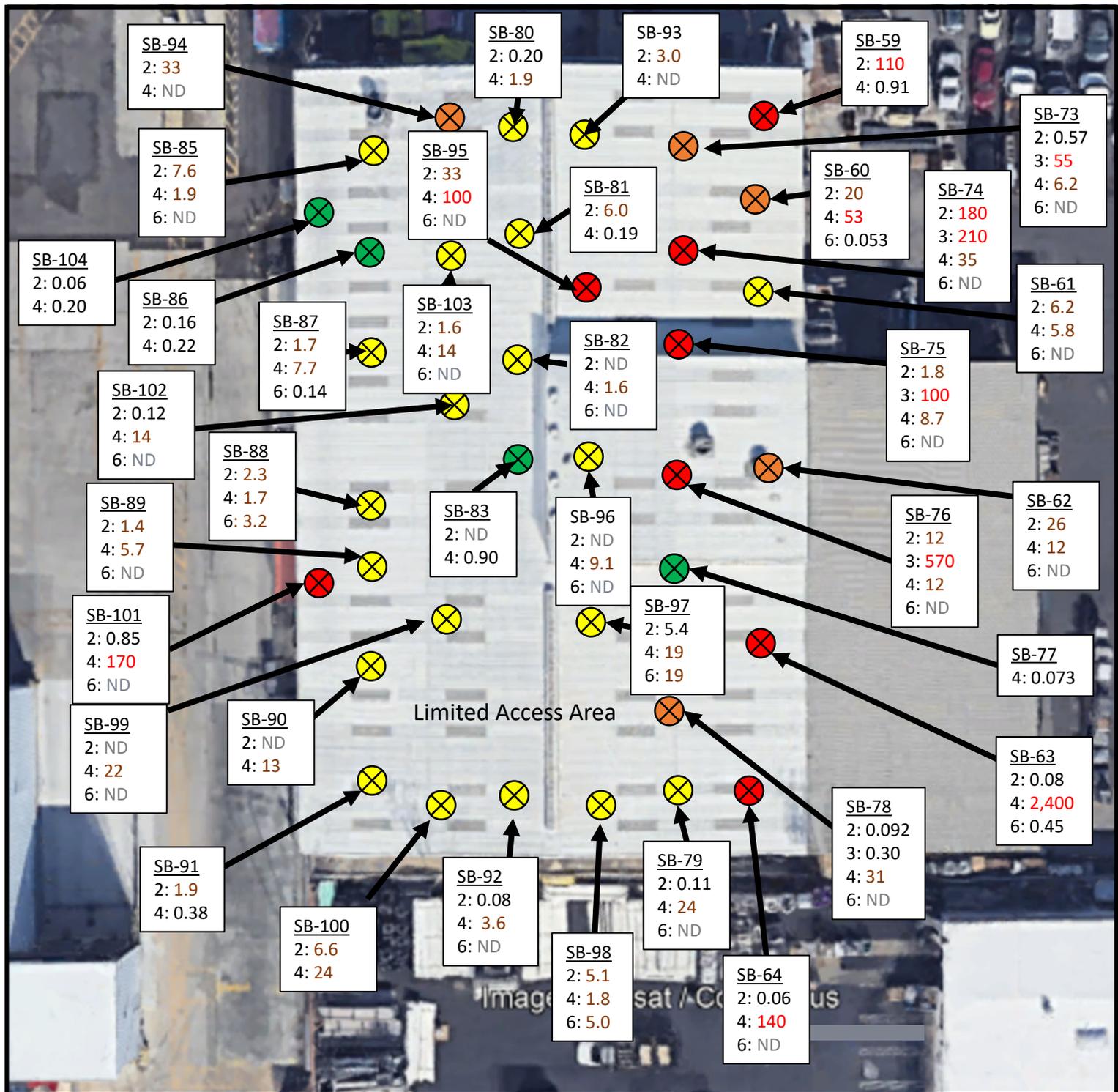


Exterior PCB Sampling Results
 630 N. Batavia Street,
 Orange, CA



Figure
3

SC1123 March 2023



- ⊗ Soil Boring (Total PCBs < 1 ppmv)
- ⊗ Soil Boring (1 ppmv < Total PCBs < 25 ppmv)
- ⊗ Soil Boring (25 ppmv < Total PCBs < 100 ppmv)
- ⊗ Soil Boring (Total PCBs > 100 ppmv)

Notes:
 Concentrations are depicted in milligrams per kilogram (mg/kg) / parts per million by volume (ppmv)
 Locations and dimensions are approximate
 ND: not detected above laboratory reporting limits
 NS: not sampled due to inability to drill or no recovery

0 50 100 Feet

Interior PCB Sampling Results

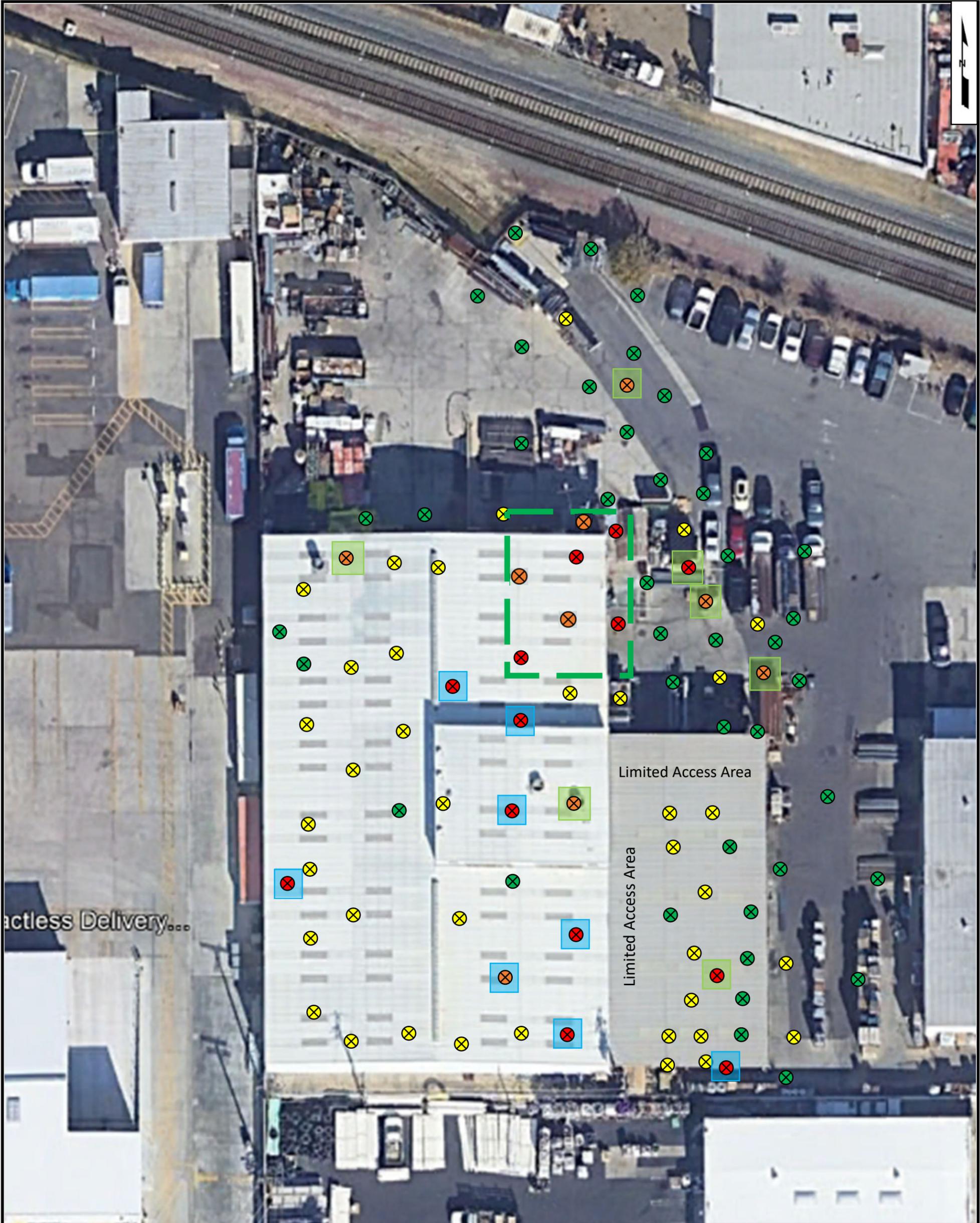
630 N. Batavia Street,
 Orange, CA

Geosyntec
 consultants

SC1123

March 2023

Figure
4



- ⊗ Soil Boring (Total PCBs < 1 ppmv)
- ⊗ Soil Boring (1 ppmv < Total PCBs < 25 ppmv)
- ⊗ Soil Boring (25 ppmv < Total PCBs < 100 ppmv)
- ⊗ Soil Boring (Total PCBs > 100 ppmv)

 Consolidation Area (12 foot depth)

 Initial Excavation Extent (2 foot depth)

 Initial Excavation Extent (4 foot depth)

Notes:
 ppm: parts per million by volume
 Locations and dimensions are approximate

0 50 100 ft

Proposed Excavation and Consolidation Area

630 N. Batavia Street,
 Orange, CA

Geosyntec
 consultants

Figure

SC1123

March 2023

5

TABLES

Table 1
Soil Sampling Results
630 N Batavia St.
Orange, California

Boring ID	Depth (ft bgs)	Results (mg/kg)		Boring ID	Depth (ft bgs)	Results (mg/kg)	
		Aroclor-1248	Aroclor-1254			Aroclor-1248	Aroclor-1254
SB-1	8	0.056	<0.050	SB-61	2	6.2	<0.050
SB-2	8	0.270	<0.050		4	5.8	<0.500
SB-3	8	<0.050	<0.050		6	<0.050	<0.050
SB-4	8	<0.050	<0.049	SB-62	2	26	<0.050
SB-5	2	8.8	<0.050		4	12	<0.050
	8	<0.050	<0.050		6	<0.050	<0.050
SB-6	2	17	<0.050	SB-63	2	0.076	<0.050
	4	3.4	<0.049		4	2400	<5.0
SB-8	2	230	<0.049		6	0.450	<0.050
	4	0.350	<0.050	SB-64	2	0.064	<0.049
SB-9	3	1.5	<0.050		4	140	<5.0
	8	<0.050	<0.050		6	<0.050	<0.050
SB-10	2	3.2	<0.050	SB-65	2	14	<0.050
	4	0.340	<0.049		4	16	<5.0
SB-11	2	2.4	<0.500		6	<0.050	<0.050
	4	<0.050	<0.050	SB-66	2	250	<5.0
SB-12	4	0.130	<0.050		4	<0.050	<0.050
SB-13	2	24	<0.050	SB-67	2	0.830	<0.050
	4	0.120	<0.050		4	<0.050	<0.050
SB-14	2	300	<0.050	SB-68	2	0.260	<0.050
	4	0.160	<0.049		4	4.4	<0.050
SB-15	4	3.2	9.2	SB-69	2	9.5	<0.050
SB-16	2	<0.050	0.270		4	0.370	<0.050
	4	<0.049	<0.049	SB-70	4	3.3	<0.050
SB-17	2	20	28	SB-72	2	0.130	<0.050
	4	<0.050	<0.050		4	<0.049	<0.049
SB-18	2	0.540	0.700	SB-73	2	0.570	<0.050
	4	0.340	0.450		3	55	<0.050
SB-19	4	<0.050	<0.050		4	6.2	<0.050
SB-20	2	<0.050	<0.050	6	<0.050	<0.050	
	4	<0.050	<0.050	SB-74	2	180	<0.050
SB-21	2	0.250	<0.050		3	210	<0.050
	4	<0.050	<0.050		4	35	<0.050
SB-22	2	<0.050	<0.050	6	<0.050	<0.050	
	4	<0.050	<0.050	SB-75	2	1.8	<0.050
SB-23	2	0.084	<0.050		3	100	<0.050
	4	0.340	<0.050		4	8.7	<0.050
SB-24	2	<0.050	<0.050	6	<0.050	<0.050	
	4	<0.050	<0.050	SB-76	2	12	<0.050
SB-25	2	0.053	<0.050		3	570	<0.050
	4	<0.050	<0.050		4	12	<0.050
SB-26	2	0.720	<0.050	6	<0.050	<0.050	
	4	0.130	<0.050	SB-77	4	0.073	<0.050

Table 1
Soil Sampling Results
630 N Batavia St.
Orange, California

Boring ID	Depth (ft bgs)	Results (mg/kg)		Boring ID	Depth (ft bgs)	Results (mg/kg)		
		Aroclor-1248	Aroclor-1254			Aroclor-1248	Aroclor-1254	
SB-27	2	<0.050	<0.050	SB-78	2	0.092	<0.050	
	4	<0.050	<0.050		3	0.300	<0.050	
SB-28	2	0.071	<0.050		4	31	<0.050	
	4	<0.050	<0.050		6	<0.050	<0.050	
SB-29	2	21	<0.050		SB-79	2	0.110	<0.050
	4	120	<0.050			4	24	<0.050
	6	<0.050	<0.050	6		<0.050	<0.050	
SB-30	2	0.210	<0.050	SB-80	2	0.200	<0.050	
	4	0.230	<0.050		4	1.9	<0.050	
SB-31	2	15	<0.049		6	<0.050	<0.050	
	4	6.4	<0.050	SB-81	2	6.0	<0.050	
	6	0.075	<0.050		4	0.190	<0.049	
SB-32	2	0.570	<0.049	SB-82	2	<0.050	<0.050	
	4	0.320	<0.049		4	1.6	<0.049	
SB-33	2	<0.050	<0.050		6	<0.050	<0.050	
	4	0.092	<0.050	SB-83	2	<0.050	<0.050	
SB-34	2	0.290	<0.049		4	0.900	<0.049	
	4	0.063	<0.049	SB-85	2	7.6	<0.050	
SB-35	2	27	<0.050		4	1.9	<0.050	
	4	0.170	<0.050		6	<0.050	<0.050	
SB-36	2	<0.049	<0.049	SB-86	2	0.16	<0.050	
	4	<0.049	<0.049		4	0.22	<0.050	
SB-37	2	54	<0.049	SB-87	2	1.7	<0.050	
	4	0.110	<0.048		4	7.7	<0.050	
SB-38	2	<0.050	<0.050		6	0.140	<0.050	
	4	<0.050	<0.050	SB-88	2	2.3	<0.050	
SB-39	2	<0.050	<0.050		4	1.7	<0.050	
	4	0.220	<0.049		6	3.2	<0.050	
SB-40	2	<0.050	<0.050	SB-89	2	1.4	<0.050	
	4	0.100	<0.050		4	5.7	<0.050	
SB-41	2	<0.050	<0.050		6	<0.050	<0.050	
	4	<0.050	<0.050	SB-90	2	<0.050	<0.050	
SB-42	2	<0.050	<0.050		4	13	<0.050	
	4	<0.050	<0.050	SB-91	2	1.9	<0.050	
SB-43	2	130	<0.050		4	0.380	<0.050	
	4	0.290	<0.050	SB-92	2	0.075	<0.050	
SB-44	2	8.9	<0.050		4	3.6	<0.049	
	4	<0.050	<0.050		6	<0.050	<0.050	
SB-45	2	<0.050	<0.050	SB-93	2	3.0	<0.050	
	4	<0.050	<0.050		4	<0.050	<0.050	

Table 1
Soil Sampling Results
630 N Batavia St.
Orange, California

Boring ID	Depth (ft bgs)	Results (mg/kg)		Boring ID	Depth (ft bgs)	Results (mg/kg)	
		Aroclor-1248	Aroclor-1254			Aroclor-1248	Aroclor-1254
SB-46	2	<0.050	<0.050	SB-94	2	33	<0.050
	4	<0.050	<0.050		4	<0.050	<0.050
SB-47	2	0.330	<0.050	SB-95	2	33	<0.050
	4	<0.050	<0.050		4	100	<0.050
SB-48	2	4.7	<0.050	SB-96	6	<0.050	<0.050
	4	0.340	<0.050		2	<0.050	<0.050
SB-49	2	1.7	<0.050	SB-97	4	9.1	<0.050
	4	<0.050	<0.050		6	<0.050	<0.050
SB-50	2	0.410	<0.050	SB-98	2	5.4	<0.050
	4	<0.050	<0.050		4	19	<0.050
SB-51	2	<0.050	0.640	SB-99	6	19	<0.050
	4	<0.049	0.068		2	5.1	<5.0
SB-52	2	0.410	<0.049	SB-100	4	1.8	<0.050
	4	4.9	<0.050		6	5.0	<0.050
	6	<0.050	<0.050		2	<0.050	<0.050
SB-53	2	0.110	<0.049	SB-101	4	22	<0.050
	4	0.560	<0.050		6	<0.050	<0.050
SB-54	2	2.2	<0.049	SB-102	2	6.6	<5.0
	4	0.300	<0.050		4	24	<0.050
SB-55	2	0.100	<0.049	SB-103	6	0.15	<0.050
	4	<0.050	<0.050		2	0.850	<0.050
SB-56	2	<0.050	<0.050	SB-104	4	170	<0.050
	4	<0.050	<0.050		6	<0.050	<0.050
SB-57	2	0.170	<0.050	SB-105	2	0.120	<0.050
	4	<0.050	<0.050		4	14	<0.050
SB-58	2	0.850	<0.250	SB-103	6	<0.050	<0.050
	4	26	<0.050		2	1.6	<0.050
	6	<0.050	<0.050		4	14	<0.050
SB-59	2	110	<0.050	SB-104	6	<0.050	<0.050
	4	0.910	<0.049		2	0.060	<0.050
SB-60	2	20	<0.050	SB-105	4	0.200	<0.050
	4	53	<0.050		2	0.060	<0.050
	6	0.053	<0.050		4	<0.050	<0.050

Notes:

mg/kg: milligrams per kilogram

Bold values indicate total PCB detections > 1 part per million (ppm) / 1 mg/kg = TSCA threshold for "PCB Investigation Waste"

ft bgs = feet below ground surface

"<" = Not detected above the laboratory reporting limit shown

Table2
Remedial Cost Estimates
630 N. Batavia St.
Orange, California

Alternative 1

<u>Excavation Monitoring:</u>	
CM Oversight (70 days)	\$133,500
Alternative Cost:	\$133,500
Other:	
Permitting, Reporting, and PM:	\$66,000
Total:	\$200,000

Alternative 2

<u>Excavation:</u>	
Number of Borings with total PCBs >25 ppm	19
Number of Borings with total PCBs >100 ppm	8
Area (total PCBs > 25ppm); yd2:	44
Average Depth > 25 ppm; yd:	1.1
Average Depth > 100 ppm; yd:	1.1
Volume, yd3 (Consolidated, >25 ppm, <100 ppm):	360
Volume, yd3 (RCRA, >100 ppm)	390
~tons/yd soil:	1.5
Total Tonnage for Offsite Disposal (RCRA Hazardous):	585
Disposal cost (RCRA Hazardous, \$350/ton):	\$204,750
CM Oversight (35 days)	\$70,500
Construction of Engineered Cap	\$75,000
Clean Backfill, placed (\$35/bcy)	\$12,600
Subcontractors and Equipment (35 days)	\$175,000
Waste Characterization and Confirmation Sampling	\$75,000
Alternative Cost:	\$612,850
Other:	
Permitting, Reporting, and PM:	\$168,000
Land Use Covenant & OM&M	\$90,000
Total:	\$871,000

Alternative 3

<u>Excavation:</u>	
Area (total PCBs > 1ppm); yd2:	4330
Average Depth; yd:	1.3
Volume, yd3 (Non-RCRA):	5590
~tons/yd soil:	1.5
Total Tonnage for Offsite Disposal (Non-RCRA):	8385
Disposal cost per ton (Non-RCRA):	\$350
Disposal cost (Non-RCRA, \$350/ton):	\$2,934,750
CM Oversight (84 days)	\$169,520
Clean Backfill, placed (\$35/bcy)	\$195,650
Subcontractors and Equipment (84 days)	\$420,000
Waste Characterization and Confirmation Sampling	\$105,000
Alternative Cost:	\$3,825,000
Other:	
Permitting, Reporting, and PM:	\$815,000
Land Use Covenant & OM&M	\$90,000
Total:	\$4,640,000

APPENDIX A
Historical Documents



September 21, 1990

Sam Balamoun
Atochem North America, Inc.
900 First Avenue
King of Prussia, PA 19406-0018

Subject: Remedial Action At Former Pennwalt Facility, 630 N. Batavia, Orange,
CA 92668 - O.C.H.C.A. Case #89IC23

Dear Mr. Balamoun:

This letter confirms the completion of site investigation and remedial action at the above site. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this Agency of any changes in report content, future contamination findings, or site usage.

If you have any questions regarding this matter, please contact Gary Zimmerman (714) 667-3761.

Very truly yours,

William J. Diekmann, REHS, M.S.
Supervising Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

WJD:GZ:db

TOM URAM
DIRECTOR

L. REX EHLING, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS MPH
DEPUTY DIRECTOR

MAILING ADDRESS: P.O. BOX 355
SANTA ANA, CA 92702





**PENNWALT CORPORATION
CHEMICAL SPECIALTIES
DIVISION**

**Site Remediation
Final Report
630 N. Batavia Street
Orange, California**

Prepared by

**ENSR Constructors
Irvine, California**

December 15, 1989

ENSR Document Number: C89133



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APPENDICES

APPENDIX NO.

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1.0 INTRODUCTION

This report summarizes the field activities and analytical results for the site remediation activities which were conducted at Pennwalt's facility located at 630 North Batavia, Orange, California. Pennwalt engaged ENSR Constructors to execute this site remediation program of which field activities were initiated on June 13, 1989. The implementation of this remediation program, including the post excavation soil sampling and analysis program was closely coordinated with the County of Orange, Environmental Health; Waste Management Section (COEHWMS).

2.0 EXECUTIVE SUMMARY

A Soils Remediation Program was conducted at Pennwalt Corporation by ENSR Constructors, a Division of ENSR Corporation, in accordance with an appropriate Remediation Workplan. The purpose of this section is to briefly summarize the major issues which are presented in the report.

- o Work zones, site security, and safety equipment required were based on the site managers specific requests.
- o The volume of soil excavated from the areas of interest at the site amounted to approximately 2,000 cubic yards. This material was manifested and transported off-site by a registered hazardous waste hauler and was disposed of at an authorized waste management facility, USPCI, Inc. Grassy Mountain Facility, Clive, Utah.
- o Excavated materials were characterized properly prior to transportation for off-site disposal to an authorized waste management facility.



- o Soil excavation activities were conducted in accordance with the provisions of the excavation permit issued under Rule 1166 of the South Coast Air Quality Management District.
- o A post excavation sampling/analysis program was utilized to determine the extent of soil excavation required to achieve the appropriate criteria. This program was coordinated with the COEHWMS.
- o Excavated areas were backfilled with clean import soil and compacted to local and state specifications. Upon completion, all backfilled areas were paved with a 4" asphaltic material and slurry coated.

3.0 SITE PREPARATION

Permission was obtained by ENSR from Orange County Environmental Health Waste Management Section and SCAQMD to proceed with the site Remediation Work Plan. No onsite work was initiated until all applicable permits were in evidence at the job site. ENSR Constructors and subcontractors mobilized at Pennwalt's request on June 13, 1989, to initiate the soil excavation program.

3.1 Work Zones

The boundaries of the exclusion zone, contamination reduction zone and support zone were marked as specified by ENSR's onsite project manager.



3.2 Security - Barricades

ENSR erected caution tape and blinking barricades as needed at the outside perimeter of the excavated area. The outside fence of the Pennwalt facility was closed and locked at all times.

3.3 Safety Equipment

ENSR Constructors was required to ensure all safety equipment was provided as specified in the ENSR Field Manual.

4.0 SCOPE-OF-WORK

4.1 Plans and Permits

ENSR Constructors submitted a Remedial Action Plan and Health and Safety Plan to Pennwalt for review and approval. The Remedial Action Plan was approved by Pennwalt and submitted to OCEHWMS for review prior to the execution of this voluntary site remediation program.

4.2 Excavation

Soils which exhibited elevated concentration of the constituents of interest including total petroleum hydrocarbons were excavated. The volume of excavated soils was approximately 2000 cubic yards.



4.3 Stockpiling of Material

The excavated material identified as hazardous was placed in a preassigned designated stock pile area. The stockpiled material was covered with plastic sheeting to minimize any potential volatilization as required by SCAQMD Rule 1166. This material was properly characterized prior to transportation to an authorized off-site waste management facility.

4.4 Transportation

All excavated materials were manifested and transported by licensed waste haulers (Refer to Attached Manifests in Appendix A).

4.5 Disposal

All excavated materials were transported and disposed off-site at an authorized waste management facility; USPCI, located in Grassy Mountain, Utah (Refer to Attached Manifests in Appendix A).

Pennwalt utilized the required EPA identification number and State of California Board of Equalization Tax identification number prior to commencement of transportation and disposal of the excavated materials.

5.0 AIR QUALITY AND MONITORING CONTROL

During the excavation and material handling of the excavated soils, ENSR encountered fugitive Volatile Organic Compound (VOC) emissions. To minimize these fugitive VOC emissions, ENSR utilized onsite vapor control technology. The vapor control technology has been authorized by the South Coast Air Quality Management District (SCAQMD).



ENSR project manager adhered to Rule 1166 - "Volatile Organic Compound Emissions From Decontamination of Soil" as presented by SCAQMD (Refer to Appendix B).

The ENSR Project Manager utilized, as needed, at least one or a combination of the following approved onsite vapor control technologies:

- o Visqueen covering (Black polyethylene plastic)
- o Water spray covering
- o Temporary foam covering
- o Permanent foam covering

6.0 SAMPLING/ANALYSIS PROGRAM

Intermediate post-excavation samples were collected and analyzed to determine the appropriate extent of soil excavation. The final post-excavation sampling/analysis program was closely coordinated with Mr. Gary Zimmerman of the Waste Management Section of Orange County during his visits on August 31, 1989 and September 11, 1989. All post-excavation samples were submitted to a State Certified laboratory for analysis (Associated Laboratories and Del Mar Analytical). All samples were accompanied by a written chain-of-custody form. The requested turn around time was 24 to 48 hours, depending upon the analysis being conducted.



6.1 Soil Sampling/Analysis

The soil samples were analyzed as appropriate for one, or a combination of, the following compounds utilizing the appropriate analytical methodologies.

<u>Constituent(s)</u>	<u>EPA Method</u>
Total Recoverable Petroleum Hydrocarbons (TPH)	418.1
Total Petroleum Hydrocarbons (TPH)	8015.(Modified)
Polychlorinated Biphenyls (PCB's)	8080.
Volatile Organic Compounds (VOC)	8240.
Total Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX)	8020/5030.

6.1.1 Sampling Protocols

Soil samples were collected utilizing either a backhoe for deep intermediate post-excavation samples, or a small clean spade, or a hand shovel for final post-excavation samples. Soil samples were collected in clean 9 oz. glass jars with teflon-lined lids. Samples jars were numbered using a sequential numbering system.

6.2 Quality Assurance/Quality Control (QA/QC) Procedures

All samples were labeled and duly noted on chain-of-custody form (Refer to Appendix C). The sealed samples were immediately labeled and chilled in a pre-cooled ice chest containing ice. The interior of the ice chest was maintained at a temperature not exceeding four (4) degrees (centigrade). The samples were kept chilled within the ice chest for delivery within 24 hours to a California certified laboratory for chemical analyses (Refer to Appendix C).



6.2.1 Sample Containers

Sample containers consisted of clean glass jars varying in volume with zero headspace. Screw-on teflon-lined lids were used to reduce the potential reaction between potential constituents and the lids. After a sample was collected, the lid was secured, and sealed with tape. All samples were labeled with permanent markers on labels.

Label information was as follows:

1. Company name and address
2. Field identification number
3. Lab identification number
4. Date
5. Time sampled
6. Location
7. Collectors signature

6.2.2 Chain-of-Custody

Chain-of-custody forms were filled out each day for the samples collected and given to the designated Project Manager with the samples. These forms included the following (Refer to Appendix C).

1. Contact person and phone number
2. Client name and address
3. Site name and address
4. Lab number
5. Field number
6. Date sampled
7. Time sampled



6.2.2 Chain-of-Custody Continued

8. Type of sample
9. Priority ranking
10. Sample description and location
11. Number of containers
12. Analyses required
13. Field observations

6.3 Analytical Laboratories

ENSR utilized the following State Certified Laboratories:

- Associated Laboratories
806 North Batavia Street
Orange, California 92668

- Del Mar Analytical
18102 Sky Park South, Suite F
Irvine, California 92714

6.3.1 Analytical Methods

Analytical parameters for soil samples were as follows:

- o **Total Recoverable Petroleum Hydrocarbons - EPA Method 418.1**
This analysis was performed by extracting the sample with Freon 113 and using IR absorption for hydrocarbon detection.
- o **Volatile Organic Compounds (VOC) - EPA Method 8240**
This analysis was performed by Mass Spectrometry.
- o **Polychlorinated Biphenyls (PCB's) - EPA Method 8080**
This analysis was performed by Gas Chromatography with Electron Capture Detection.



- o **Total Petroleum Hydrocarbons (TPH) - EPA Method 8015 Modified**
This analysis was performed by Gas Chromatography and Flame - Ionization Detection.
- o **Total Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) - EPA Method 8020 and 5030**
This analysis was performed by Gas Chromatography and Photo Ionization Detection.

6.3.2 Quality Assurance/Quality Control

The laboratory was responsible for providing internal QA/QC throughout the project.

Matrix spikes for selected organic compounds were performed by the state certified laboratory, in duplicate, on randomly selected samples. The percent recoveries were within recovery limits established by the EPA. The specific sample results of the matrix spikes and duplicates are provided in Appendix C).

6.4 Intermediate Post Excavation Soil Sampling

Upon completion of the initial soil excavation phase, intermediate post-excavation soil samples were collected. Soil sampling depths ranged from approximately 3 feet to 17.5 feet (below grade). A total of twenty (20) samples were collected, entered into proper chain-of-custody, and submitted to the analytical laboratory.

6.4.1 Sample Locations

Locations of the intermediate post-excavation sampling points are shown in Figures 1-1 and 1-2.



6.4.2 Analytical Results

Results of the Intermediate Post Excavation Soil Sampling program are presented in Table 1. The results indicated the presence of total petroleum hydrocarbons (EPA 418.1) and PCB's at levels which required additional excavation.

6.5 Final Post-Excavation Soil Sampling

Upon completion of the required additional soil excavation, final post-excavation soil samples were collected on July 18, August 23, 31, September 5, 11, 12, 1989. Soil sampling depths ranged from approximately 3 feet to 17.5 feet (below grade). A total of sixteen (16) additional soil samples were collected, entered into proper chain-of-custody, and submitted to the analytical laboratory. The final post-excavation soil sampling program was closely coordinated with Mr. Gary Zimmerman of the Waste Management Section of Orange County during his site visits(s) on August 31, 1989, September 11, 1989.

6.5.1 Sample Locations - Site Plan

Locations of the final post-excavation sampling points are shown on the attached Figures 1-3 and 1-4.

6.5.2 Analytical Results

The analytical results of the final post-excavation soil sampling program are presented in Table II. These results were reviewed with Mr. Gary Zimmerman and was deemed as acceptable for successful conclusion of the soil removal/clean-up program at the site. This information was confirmed by Pennwalt's letters of October 30 and 31, 1989, to the Waste Management Section of Orange County.



INTERMEDIATE POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

TABLE I

SAMPLE NAME	DATE SAMPLED	TPH	DEPTH
		EPA #418.1	
E-1	JUNE 89	37,200	48"
E-2	JUNE 89	342	48"
E-3	JUNE 89	575	84"
E-4	JUNE 89	230	48"
E-5	JUNE 89	240	48"
E-6	JUNE 89	4,060	72"
E-7	JUNE 89	5,940	24"
E-8	JUNE 89	205	48"
E-9	JUNE 89	ND	48"
E-10	JUNE 89	ND	48"
E-11	JUNE 89	ND	48"
E-12	JUNE 89	ND	48"
E-13	JUNE 89	ND	48"
E-14	JUNE 89	ND	48"
E-15	JUNE 89	19.7	204"
E-16	JUNE 89	5,377	84"
E-17	JUNE 89	ND	96"
E-18	JUNE 89	ND	96"



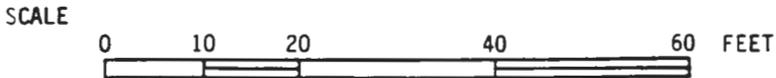
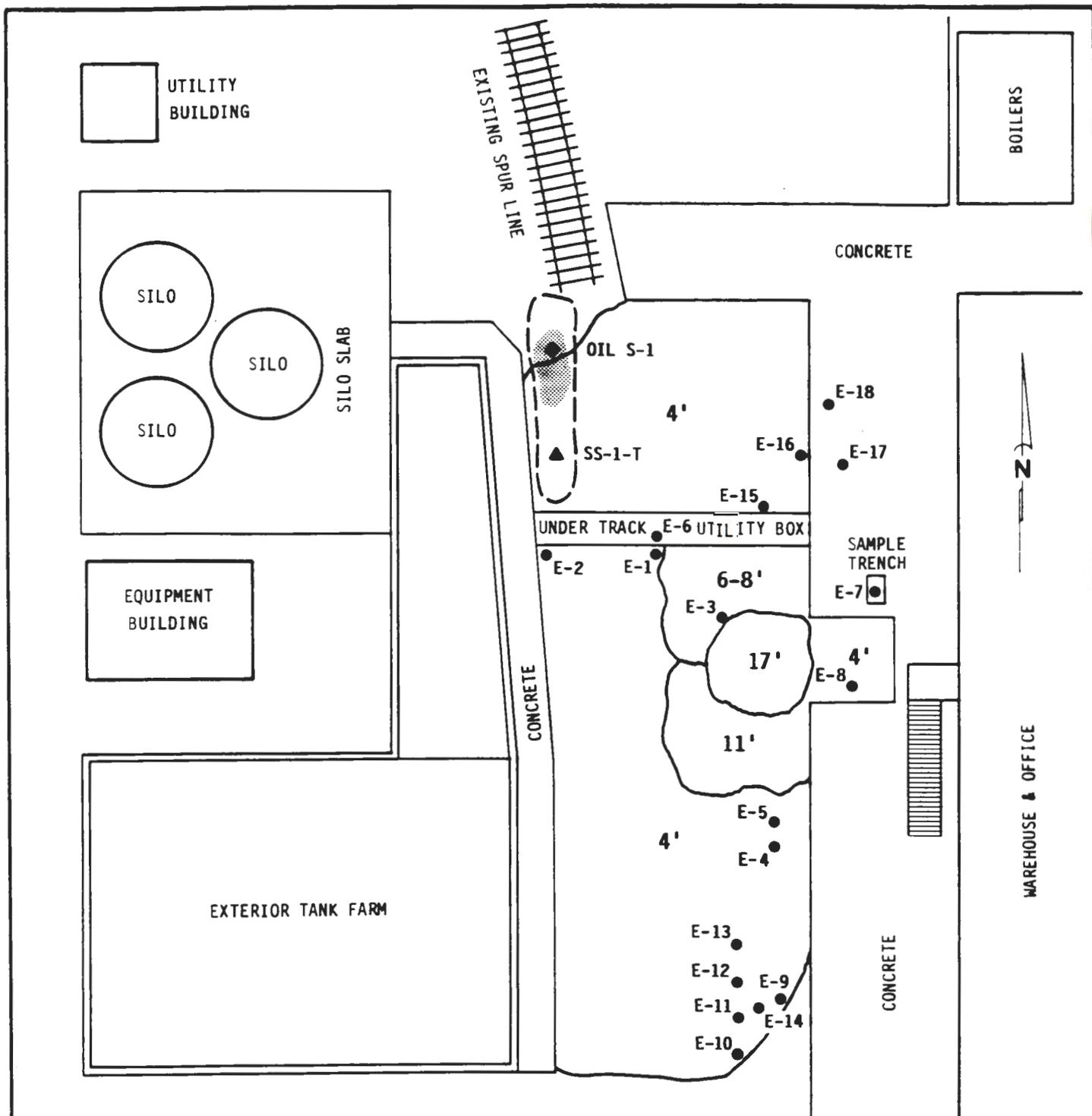
FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

TABLE II

SAMPLE NAME	DATE SAMPLED	TOTAL HYDROCARBONS PETROLEUM	PCB	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE	
		EPA # 418.1	EPA #8080	DH	DV
SWH-1	JULY 89	280	1.8	12"	12"
SWH-4	JULY 89	3,200	38	12"	12"
SWH-5	JULY 89	1,400	5.6	12"	12"
SWH-6	JULY 89	190	<0.1	12"	12"
SWJ-1	JULY 89	380	1.2	12"	12"
SWJ-2	JULY 89	30	1.5	12"	12"
SWJ-4	JULY 89	500	21	12"	12"
SEH-2	JULY 89	53	1.0	12"	30"
SEJ-1	JULY 89	58	<0.1	12"	30"
SWJ-3B	AUG 89	580	16	6"	30"
SEH-1A	AUG 89	---	8.9	6"	54"
SWH-2B	AUG 89	1,600	---	6"	30"
SWH-3B	AUG 89	1,700	---	6"	30"

DH : Depth - Horizontal

DV : Depth - Vertical

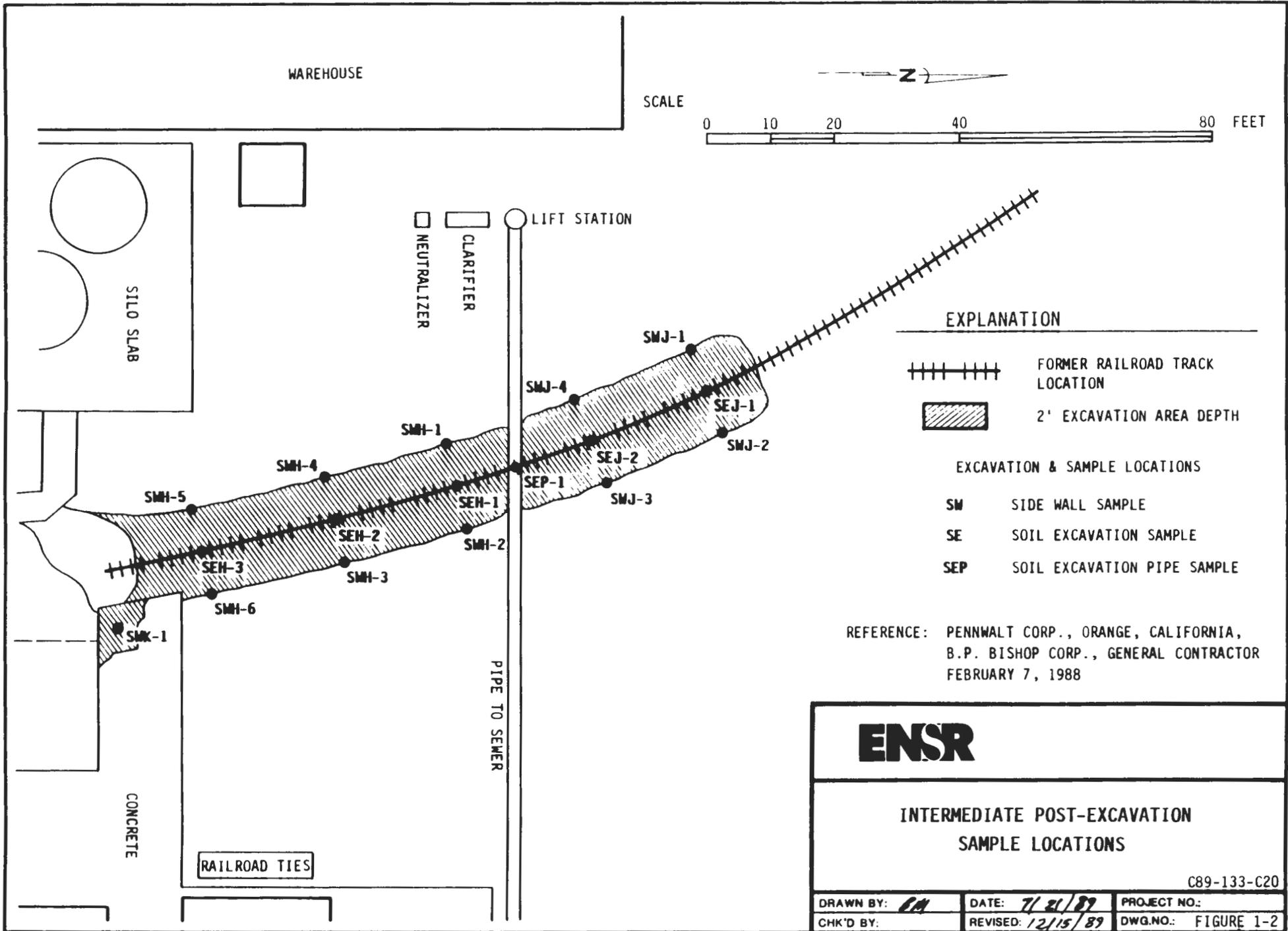


EXPLANATION

- 17' EXCAVATION AREA DEPTH
- E-18 EXCAVATION SAMPLE LOCATION
- ▲ SS-1-T SOIL SAMPLE LOCATION

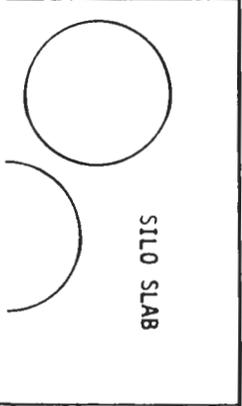
REFERENCE: PENNWALT CORP., ORANGE, CALIFORNIA,
 B.P. BISHOP CORP., GENERAL CONTRACTOR
 FEBRUARY 7, 1988

<h1>ENSR</h1>		
INTERMEDIATE POST-EXCAVATION SAMPLE LOCATIONS		
DRAWN BY: <i>AM</i>	DATE: <i>6/29/89</i>	PROJECT NO.: C89-133-C20
CHK'D BY:	REVISED: <i>12/15/89</i>	DWG. NO.: FIGURE 1-1

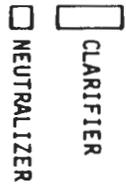


WAREHOUSE

SCALE



SILO SLAB



NEUTRALIZER

CLARIFIER

LIFT STATION

EXPLANATION



FORMER RAILROAD TRACK LOCATION



2' EXCAVATION AREA DEPTH

EXCAVATION & SAMPLE LOCATIONS

- SW SIDE WALL SAMPLE
- SE SOIL EXCAVATION SAMPLE
- SEP SOIL EXCAVATION PIPE SAMPLE

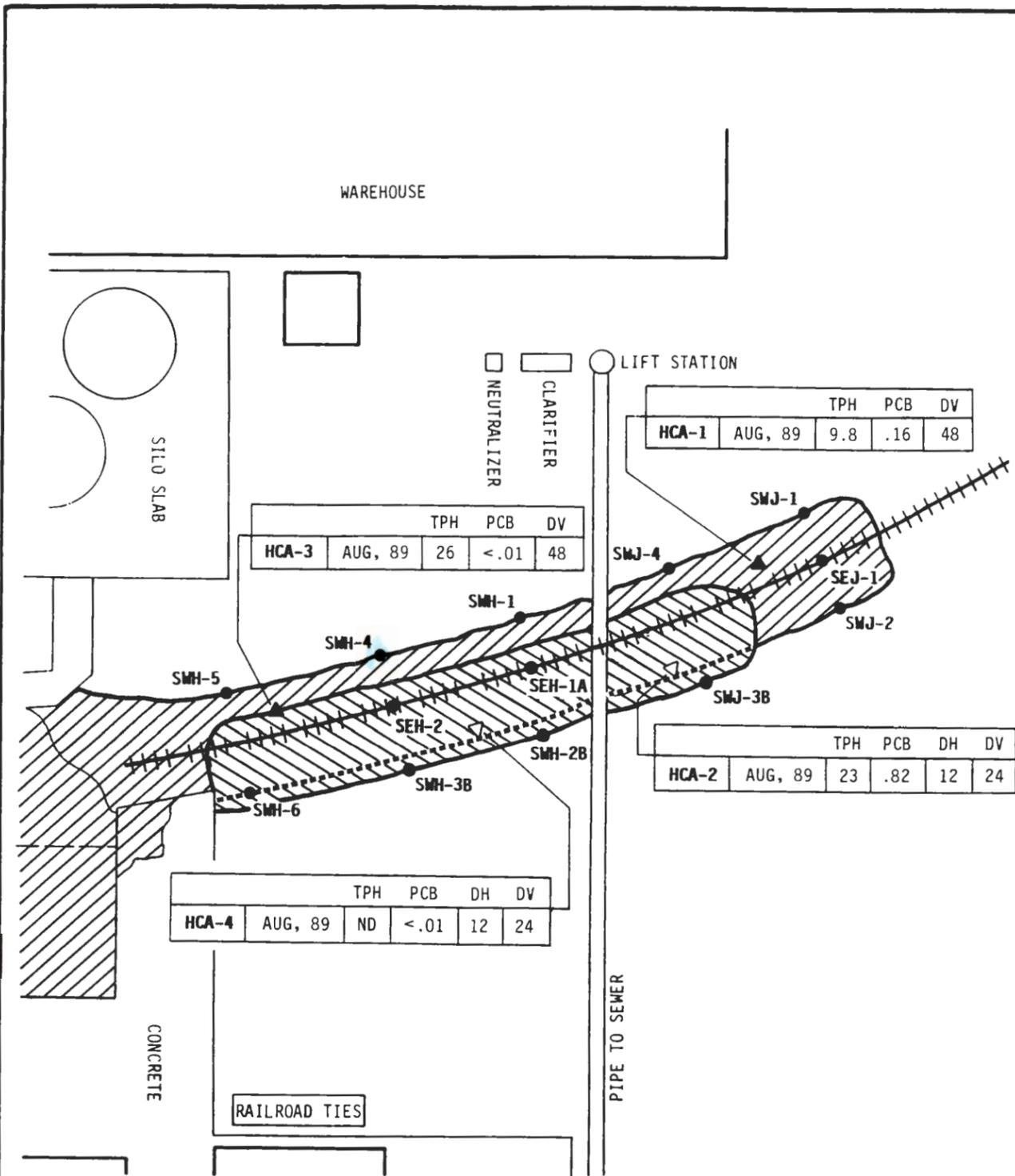
REFERENCE: PENNWALT CORP., ORANGE, CALIFORNIA,
 B.P. BISHOP CORP., GENERAL CONTRACTOR
 FEBRUARY 7, 1988



INTERMEDIATE POST-EXCAVATION
 SAMPLE LOCATIONS

C89-133-C20

DRAWN BY: <i>EM</i>	DATE: <i>7/21/89</i>	PROJECT NO.:
CHK'D BY:	REVISED: <i>12/15/89</i>	DWG.NO.: FIGURE 1-2



EXPLANATION

+++ FORMER RAILROAD TRACK LOCATION

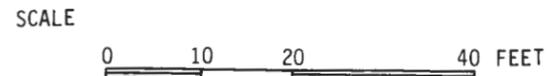
EXCAVATION & SAMPLE LOCATIONS

- SW ADDITIONAL POST EXCAVATION SIDE WALL SAMPLE
- SE ADDITIONAL POST EXCAVATION SOIL SAMPLE-BOTTOM
- ▲ FINAL POST EXCAVATION SOIL SAMPLE-BOTTOM. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- △ FINAL POST EXCAVATION SOIL SAMPLE-SIDE WALL. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- DH DEPTH-HORIZONTAL
- DV DEPTH-VERTICAL
- TPH TOTAL PETROLEUM HYDROCARBONS PER EPA 418.1
- PCB EPA NO. 8080
- BTEX EPA NO. 8020 & 5030
- TPH-1 TOTAL PETROLEUM HYDROCARBONS PER EPA 8015 MOD.
- ND NON DETECTABLE

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

SAMPLE NAME	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	PCB	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE	
		EPA #418.1	EPA #8080	DH	DV
SWH-1	JULY 89	280	1.8	12"	12"
SWH-4	JULY 89	3,200	38	12"	12"
SWH-5	JULY 89	1,400	5.6	12"	12"
SWH-6	JULY 89	190	<0.1	12"	12"
SWJ-1	JULY 89	380	1.2	12"	12"
SWJ-2	JULY 89	30	1.5	12"	12"
SWJ-4	JULY 89	500	21	12"	12"
SEH-2	JULY 89	53	1.0	12"	30"
SEJ-1	JULY 89	58	<0.1	12"	30"
SWJ-3B	AUG 89	580	16	6"	30"
SEH-1A	AUG 89	--	8.9	6"	54"
SWH-2B	AUG 89	1,600	--	6"	30"
SWH-3B	AUG 89	1,700	--	6"	30"

NOTE: OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.



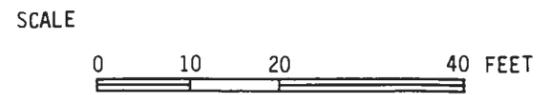
REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
 B.P. BISHOP CORP., GENERAL CONTRACTOR,
 FEBRUARY 7, 1988

ENSRTM

FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>BA</i>	DATE: 10/12/89	PROJECT NO.:
CHK'D BY:	REVISED: 10/30/89	DWG.NO.: FIGURE 1-3



SAMPLE NAME	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE
		EPA #418.1	
E-2	JUNE 89	342	48"
E-3	JUNE 89	575	84"
E-4	JUNE 89	230	48"
E-5	JUNE 89	240	48"
E-8	JUNE 89	205	48"
E-9	JUNE 89	ND	48"
E-10	JUNE 89	ND	48"
E-11	JUNE 89	ND	48"
E-12	JUNE 89	ND	48"
E-13	JUNE 89	ND	48"
E-14	JUNE 89	ND	48"
E-15	JUNE 89	19.7	204"
E-17	JUNE 89	ND	96"
E-18	JUNE 89	ND	96"

NOTE: OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
B.P. BISHOP CORP., GENERAL CONTRACTOR,
FEBRUARY 7, 1988

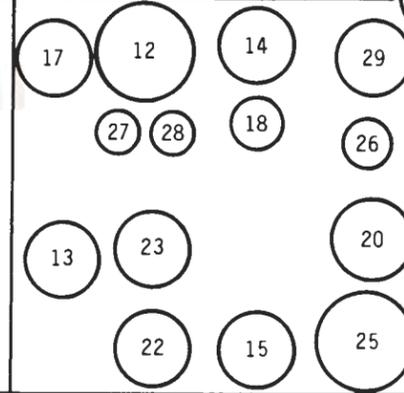
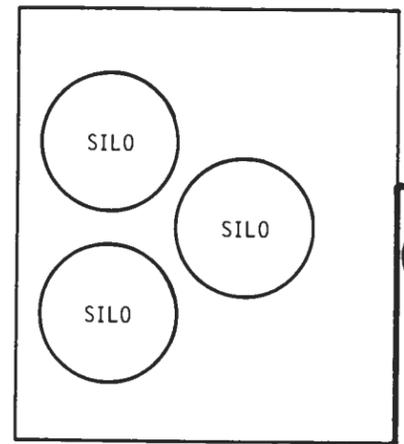


FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: *BM/AS* DATE: 9/26/89 PROJECT NO.:
CHK'D BY: REVISD: 10/30/89 DWG. NO.: FIGURE 1-4

WAREHOUSE



NOTE: FORMER TANK FARM (TANKS EMPTY & DECONTAMINATED)

EXCAVATED AREA APPROX. 32' SQ. X 24' DEEP

	PCB	DV
TF2-C24	AUG, 89	0.74 24

	TPH	PCB	BTEX	DV
TF-2	AUG, 89	610	16	ND 12

	PCB	DV
TF2-A24	AUG, 89	0.44 24

	PCB	DV
HCA-11-A	SEPT, 89	1.8 24

	PCB	DV
TF2-B24	AUG, 89	0.47 24

	TPH	DV
HCA-10	SEPT, 89	120 48

	TPH	DV
HCA-9	SEPT, 89	25 48

	TPH	DV
HCA-8	SEPT, 89	28 48

	TPH	PCB	DV
HCA-7	AUG, 89	23 <0.01	96

	TPH	DH	DV
HCA-12	SEPT, 89	880 48	12

	TPH	DV
HCA-5A	SEPT, 89	1900 108

	TPH-1	DV
C-1-12	AUG, 89	ND 12

CONCRETE

CONCRETE

MIXING & FILLING

MIXING & LAB

EXPLANATION

- E ADDITIONAL POST EXCAVATION SOIL SAMPLE-BOTTOM
- ▲ FINAL POST EXCAVATION SOIL SAMPLE-BOTTOM. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- △ FINAL POST EXCAVATION SOIL SAMPLE-SIDE WALL. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- DH DEPTH-HORIZONTAL DV DEPTH-VERTICAL
- PCB EPA NO. 8080 ND NON DETECTABLE
- TPH TOTAL PETROLEUM HYDROCARBONS PER EPA 418.1
- TPH-1 TOTAL PETROLEUM HYDROCARBONS PER EPA 8015 MOD.
- BTEX EPA NO. 8020 & 5030



7.0 HEALTH AND SAFETY

7.1 Health and Safety Site Work

All site work was carried out in accordance with the Health and Safety plans as provided in the ENSR Field Manual and ENSR Standard Operating Procedures.

ENSR provided the necessary equipment checks, site monitoring, and record keeping functions. The ENSR site safety officer was periodically onsite to monitor site conditions in coordination with ENSR's project manager.

7.2 Health and Safety Personnel

ENSR Constructors maintained a high standard of operational protocol relating to the health and safety precautions needed during the site remediation activities. All ENSR personnel onsite completed the 40 hour training requirements in accordance with the appropriate OSHA Standards specified in EPA 29 CFR 1910.120. Safety meetings were held at the beginning of every work day, during phases when new personnel were introduced to the site, and when site conditions warrant.

8.0 BACKFILL AND COMPACTION

8.1 Compaction Report

Upon Pennwalt's receipt of an oral approval on September 15, 1989, from Mr. Gary Zimmerman of the Waste Management Section of Orange County as to the successful completion of the soil excavation program, the excavated area was backfilled with certified clean soil. The soil was compacted to between 90-95 relative percent based upon ASTM D 1557 test procedures. (Compaction certificates



are provided in Appendix D).

8.2 Site Restoration

Upon completing the soil compaction, the backfilled area was properly graded and covered with 4" asphalt cover along with a new slurry coat.

9.0 **SUMPS AND CLARIFIERS**

9.1 Decommissioning Procedures

At the request of Pennwalt, ENSR completed the decommissioning of the onsite, 3 stage waste water clarifier (Refer to Appendix E).

The clarifier was triple rinsed with a high pressure water unit utilizing hot water at 1200 psi.

9.2 Transportation and Disposal

The rinsate and solids generated during the decommissioning process were collected, manifested, and transported for off-site disposal at an authorized waste management facility (Refer to Manifest No. 88179385 in Appendix E).

10.0 **LAB PACKING OF WASTE MATERIALS**

Due to the nature of Pennwalt's manufacturing of several petroleum based products, a number of partially consumed laboratory and manufacturing specialty chemicals required appropriate packaging prior to off-site disposal at an authorized waste management facility. ENSR utilized the following procedures for Lab Packing of residual chemicals.



10.1 General Requirements

Prior to transportation and disposal, an authorized off-site waste management facility received the general Lab Pack information from Pennwalt. The information included:

- (a) Chemical compound name (no trade name)
- (b) Material of inner containers, i.e. glass, plastic, metal, etc.
- (c) Amount of size of each waste package.
- (d) DOT hazardous class, if applicable.
- (e) DOT identification number, if applicable
- (f) EPA hazardous waste code, if applicable



10.2 Materials

<u>DRUM #</u>	<u># OF DRUMS</u>	<u>SIZE/TYPE OF DRUMS</u>
1-6/LP	6	30 gal Fiber
7	1	30 gal Steel
8	1	30 gal Steel
9	1	55 gal Steel
10	1	55 gal Steel
11	1	55 gal Steel
12	1	55 gal Steel
13-16	4	30 gal Steel
17	1	55 gal Steel
18	1	5 gal Poly
19	1	85 gal Steel
20	1	55 gal Steel
21	1	55 gal Steel
22	1	55 gal Steel
23	1	55 gal Steel
24	1	55 gal Steel
25	1	55 gal Steel
26-29/LP	4	30 gal Steel
30	4	55 gal Steel
31	1	55 gal Steel
32	1	55 gal Steel
33	1	55 gal Steel
34	2	55 gal Steel
35	1	55 gal Steel
36, 41	2	55 gal Steel
37	1	55 gal Steel
38	1	55 gal Steel
39	1	55 gal Steel
40	2	55 gal Steel
42	1	55 gal Steel
43/LP	1	30 gal Steel
44	2	55 gal Steel
45	8	5 gal Poly

ROMIC CHEMICAL CORPORATION 2081 BAY ROAD, E. PALO ALTO, CA

This facility received the following drums:

DRUM # 7, 9, 10, 11, 12, 21, 22, 24, 30, 31, 32, 33, 34 (2), 35, 36, 38, 40, 41 (2), 42 (2), and 44.

ROLLINS ENVIRONMENTAL SERVICES (LA) INC. 13351 SCENIC HIGHWAY,
BATON ROUGE LA 70807

This facility received the following drums:

DRUM # 1-6, 8, 9, 13-20, 23, 25-29, 37, 39, 43, 45



10.3 Packaging

All residual chemicals were packaged to meet DOT specifications for shipping. Waste streams were segregated into specific compatible categories:

- o Flammable liquid
- o Flammable solid
- o Combustible liquid
- o Corrosive material (acid/base)
- o Poison B
- o Oxidizer
- o Organic Peroxide
- o ORM-A
- o ORM-B
- o ORM-C
- o ORM-E

All Lab Packs were packed with an absorbent acceptable to the disposal facility. Lab Packs were packaged so that inside containers were transported without risk of breakage and with sufficient absorbent to absorb all liquid waste should breakage occur.

Lab Packs were packaged according to the following procedures:

1. A plastic liner was placed inside the lab pack.
2. A four to six inch (4-6") layer of absorbent material was placed on the Lab Pack bottom.
3. A single layer of containerized waste was placed on the absorbent packing with at least two inches (2") of absorbent between the containers and the Lab Pack sides.



Lab Packs were packaged according to the following Procedures (Continued):

4. The container layer was then covered with two to three inches (2-3") of absorbent.
5. The Lab Pack, was filled by alternating layers of containers and absorbent.
6. The Lab Pack was topped off with four to six inches (4-6") of absorbent material to complete the packaging.
7. The cover, gasket, ring, and closure was then affixed. The appropriate labels and packing slip were attached.

The maximum allowable volume per Lab Pack container size and type was restricted to meet safety requirements for the handling, transportation, and ultimate disposal/recycling.

<u>Container Type</u>	<u>Maximum Volume (Liquids)</u>	<u>Maximum Weight Solids</u>
30 gallon	10 gallons	75 lbs.
20 gallon	5 gallons	45 lbs.
16 gallon	4 gallons	36 lbs.
5 gallon	1 gallon	8 lbs.

The maximum size container accepted is a DOT approved 30 gallon plastic or fiber Lab Pack (not to exceed 19" in diameter). The maximum numbers of containers inside the Lab Pack are as follows:

- o 4 one-gallon glass containers per 30 gallon Lab Pack.
- o 4 one-gallon metal containers per 30 gallon Lab Pack.
- o 10 one-gallon metal containers per 30 gallon Lab Pack.
- o 15 one-pint metal containers per 30 gallon Lab Pack



The top of the Lab Pack was labeled with the following.

- o Generator's EPA I.D. Number and designated TSD Facility Number
- o Manifest Number
- o Lab Pack Number According to Packing List

10.4 Manifest Documentation

Pennwalt was required to complete the appropriate Waste Manifests and all other required shipping papers prior to shipment to the designated TSD facility (Refer to Appendix F).

10.5 Certification Letter

Materials Characterization Data Sheets were accompanied by a letter signed by the Generator, certifying that the manifested shipment complied with the designated TSD Pack Guidelines (Refer to Appendix F).

10.6 Lab Pack Acceptance

Pennwalt received approval for final shipment and receipt of Lab Packed material for appropriate disposal by the designated TSD facility (Refer to Appendix F). All Lab pack shipments were transported offsite to the authorized waste management facility on or before November 2, 1989.

**PENNWALT CORPORATION
CHEMICAL SPECIALTIES
DIVISION**

**630 NORTH BATAVIA
STREET
ORANGE, CALIFORNIA**



**SITE ASSESSMENT
REPORT**

Prepared for:

PENNWALT CORPORATION

Prepared by:

**ENSR Consulting and Engineering
(Formerly ERT)**

JULY 1989

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Soil Vapor Survey	10
Soil Sampling	11
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Soil Vapor Survey	11
Soil Borings and Sample Analyses	12
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ATTACHMENT I - SOIL VAPOR SURVEY DETAILS

ATTACHMENT II - SOIL BORING DETAILS

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INTRODUCTION and PURPOSE

The purpose of this site assessment investigation was to evaluate the environmental conditions onsite, particularly with regards to potential impacts on soil or groundwater, if any. A site inspection was conducted and subsequent field investigations involved a soil vapor survey and a soil boring program including the collection of subsurface soil samples.

The site is located at 630 North Batavia Street, Orange, California, approximately three-quarters of a mile east of the Santa Ana River (see Figure 1). Santiago Creek, which flows west into the Santa Ana River, lies approximately one and one quarter mile south. The area around the site is a mixture of light industrial/commercial (predominantly north and west of the site), and residential (predominantly south of the site).

The subject site constituted a specialty chemical plant which produced a variety of cleaning products. Reportedly, manufacturing operations were discontinued in April, 1989. While the plant was in operation, raw materials were stored on site, predominantly in an above-ground tank farm located near the center of the site. Table 1 lists the materials stored by tank number and Figure 2 shows tank locations.



REFERENCE: USGS 7.5 MINUTE SERIES
 ANAHEIM QUADRANGLE 1981
 ORANGE QUADRANGLE 1981



SCALE



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SITE LOCATION MAP
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

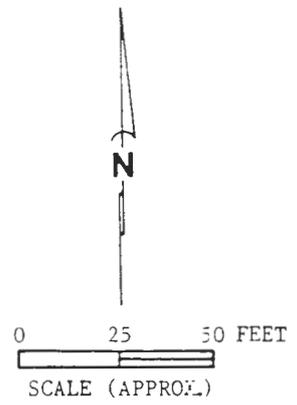
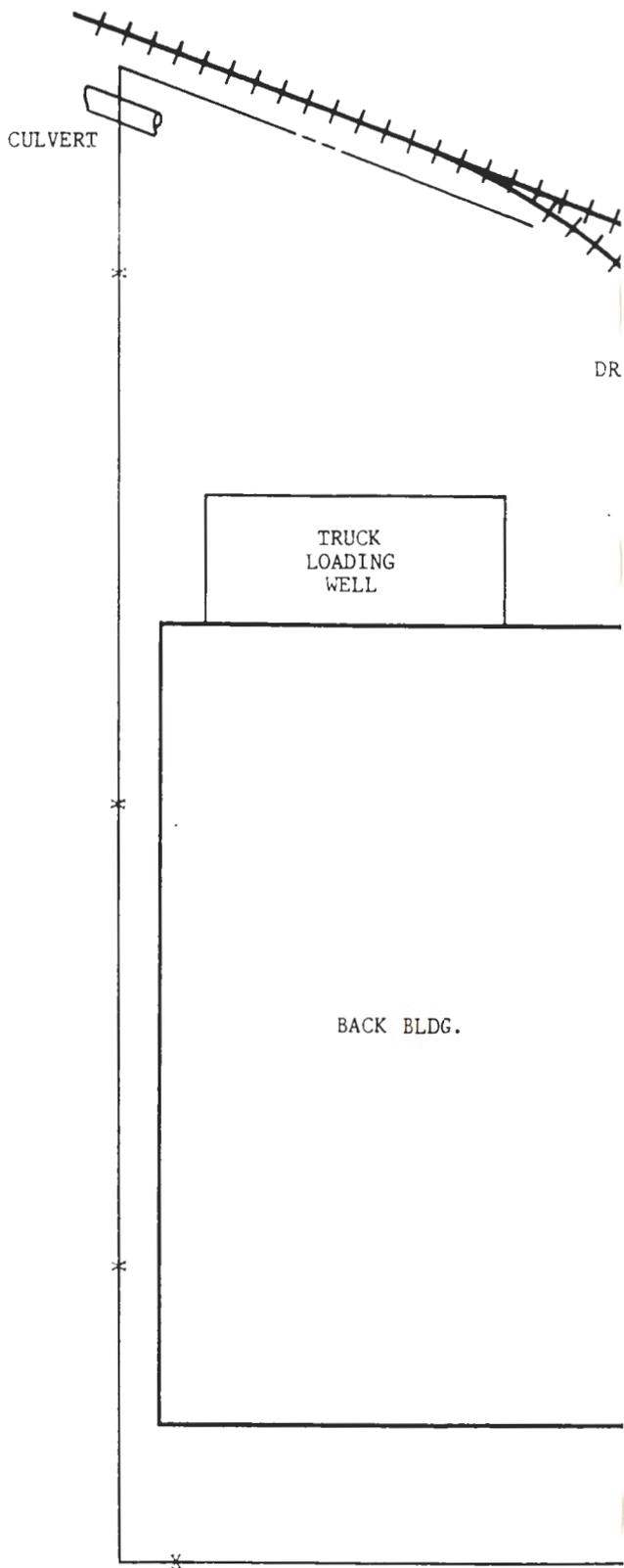
DRAWN BY: <i>BM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-202
CHK'D BY:	REVISED:	DWG.NO.: FIGURE 1



TABLE 1

Pennwalt Tank Capacities

<u>No.</u>	<u>Tank</u>	<u>Composition</u>	<u>Size-Gal's.</u>	<u>Use</u>
1	Wet Blends	Steel	3500 Jacket	Mix
2	Wet Blends	Steel	5000	Mix
3	Wet Blends	Steel	330	Premix
4	Wet Blends	SS	400 Portable & Jacket	Mix
5	Wet Blends	SS	1500	Mix
6	Wet Blends	SS	500	Mix
7	Not identified			
8	Wet Blends	SS	500	Mix
9	Wet Blends	SS	1500 Coil	Mix
10	Triethanolamine 85%	Steel	5000 Coil	RM0188
11	Wet Blends	SS	5000 Coil	Mix
12	KOH 50%	Fiberglass	5000	RM1962
13	Triton N101	Steel	5000	RM1528
14	"E" Silicate	Steel	5000 Coil	RM1374
15	Aromatic 150	Steel	8000	RM1589
16	Wet Blends	SS	1500	Mix
17	Hydrofluosilicic Acid 23%	Plastic	4200	RM0899
18	NaOH 50%	Steel	4000	RM1967
19	140 Solvent	Steel	2000	RM1089
20	Empty	Steel	6000	
21	Ucon ML5200	Steel	6000	RM1667
22	Empty	Steel	5000	
23	Empty	Steel	6000	
24	Empty	Steel	10,000 Coil	
25	Empty	Steel	10,000	
26	Mineral Seal Oil	Steel	1500	RM1193
27	Butyl Carbitol	Steel	1000	RM1128
28	Butyl Carbitol	Steel	1000	RM1128
29	Empty	Steel	10,000	
30	Naphtha Oil	Steel	10,000	RM0593
31	Naphtha Oil	Steel	10,000 Coil	RM0591
32	Indopol L50	Steel	10,000 Coil	RM2051
33	Empty	Steel	10,000 Coil	
34	Oil	Steel	10,000	RM0588
35	Not identified			
36	Not identified			
37	Kerosene	Steel	1000	RM0048
38	Indopol L14	Steel	10,000	RM2050
39	Wet Blends	SS	130 Portable	Mix
40	Waterbased Lubes	Steel	5000 Coil	Mix
41	Hold	Steel	14,000 Coil	Hold



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SITE PLAN
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

DRAWN BY: <i>AM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-292
CHK'D BY:	REVISED:	DWG.NO.: FIGURE 2



SITE DESCRIPTION

The following information was obtained during our site inspection in February, 1988. The facility is owned by Pennwalt Corporation, 3 Parkway, Philadelphia, Pennsylvania. The site address is 630 North Batavia Street, Orange, California, in the County of Orange. The site, which occupies approximately 3.37 acres, is covered nearly entirely with either buildings or pavement. The site constitutes a chemical specialties plant capable of manufacturing a large variety of metal preparation compounds and cleaners, and also includes warehousing and shipping facilities for products made both onsite and at other Pennwalt facilities, and office space for facility personnel. Reportedly, manufacturing operations were discontinued in April, 1989.

The property is bounded by Batavia Street on the east, a Santa Fe Railroad right-of-way on the north, and light industrial/commercial properties to the west and south. There are two buildings on the property; the main building which fronts Batavia Street contains approximately 24,000 square feet, about 4800 square feet of which is office space; and the back building contains approximately 26,000 square feet. Between the two buildings, there are a tank farm and a railroad siding.

The site has full access to public utilities. Electricity transmission lines are above ground. There are two electricity poles on the north side of the main building. Both have transformers attached. Southern California Edison has assured Pennwalt that no PCBs are used in the transformers.

A Santa Fe Railroad siding extends from the main track north of the property to the area between the main and back buildings. Where the buildings do not abut the property line

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on the north and portions of the west and south sides, there is chainlink fencing. The lot is essentially flat, with the rear slightly sloping to the northwest corner. Other depressions are designed to control surface water runoff.

Wastewater (primarily domestic) from the main building is discharged into the County sanitary sewer. A trench equipped with a grease trap in the main building discharges to the sanitary sewer.

Wastewater from the manufacturing processes and sumps around the back building is routed through a three-stage clarifier located outside of the northeast corner of the back building and is discharged into the County industrial sewer. There is a network of lines that direct wastewater collected in various drains, sumps, and trenches to the clarifier and eventually to the sewer system. Sumps are located in the bulk storage area, the truck wells, washdown shed, and certain process areas. Piping in the bulk storage area and wet processing area is complemented by trenches which are connected to the clarifier.

A 10-inch culvert at the very northwest corner of the property provides a conduit to drain surface water runoff offsite. Most of the storm water runoff drains by gravity, although storm water collected in the truck well sump is pumped to the culvert. The culvert extends west 100 to 120 feet and discharges to the surface at the bottom of the railroad grading. A storm drain is located nearby.

Approximately 38 above-ground storage and mixing tanks are located between and in both of the buildings (see Table 1 for volumes and types of materials contained). There is a liquified petroleum gas (propane) tank containing approximately 300-gallons, on the north side of the main building, west of the loading dock.



According to Donald Kossler, Plant Manager, asbestos is found in certain areas of the main building but that the back building, which was built in 1983, contains no asbestos. An asbestos survey was not requested to be conducted for this investigation.

The plant was capable of manufacturing over 150 different products in batch processes. Typical manufactured products included cutting oils, drawing compounds, acid and caustic cleaners, detergents, soaps, and related products. A number of mixers were used in the processing. Viscous raw materials were fluidized in an oven prior to mixing. A gas-fired boiler provided process steam. Many liquid raw materials were stored in tanks (see Table 1) and drums, while dry materials were stored in silos, drums and bags.

The raw materials were essentially consumed in the manufacturing process with no by-products. The only wastes generated were wastewater and oil tank and kettle wash out. As noted above, during operations the wastewater passed through a clarifier before it is discharged to the Orange County sewer system. Every three to four months, about 3,500 gallons of sludge which settled at the bottom of the clarifier was pumped out and transported by a registered hauler under manifest to an authorized waste management facility in Los Angeles.

The oil tank and kettle wash out were usually recycled back into the manufacturing process. Some residual oil was stored in 55-gallon drums and was transported by a registered hauler under manifest to an oil recycling facility.



According to Donald Kossler, Plant Manager, the site was vacant land prior to the construction of an oil blending facility by Kerns, Inc. in 1957. Kerns blended lubricating oils for industrial use at the facility.

Pennwalt purchased the facility around 1969 and added grease production capabilities. Pennwalt's Keystone Division continued to manufacture greases at the site until 1986. At this time, a process hot oil heater was dismantled and removed from the site. At the time of the inspection the heater used Mobiltherm (a non-PCB oil). Ten years ago the heater used an oil containing PCBs. It was reported by Pennwalt personnel that the PCB oil was removed and incinerated offsite, and the system was cleaned prior to replacement with a non-PCB oil.

A second building (the back building) was constructed in 1983. Detergents, cleaners, and soaps were made here along with metal preparation compounds. Waste generation did not significantly varied over the years; most raw materials were consumed in the manufacturing process with no by-products.

Current uses of adjacent properties include:

Katsis Autobody Crafts, 650 N. Batavia Street - autobody repair and painting.

Pacific Supply Corp., 675 N. Batavia Street - roofing supplies.

Hydroscape, 601 N. Batavia Street - landscaping and irrigation supplies.

Vacant (formerly Seatec Inflatable Systems), 600 N. Batavia Street - manufactured diving supplies.

Public Storage, 601 N. Main Street - retail storage spaces.

Arrowhead Drinking Water Co., 619 N. Main Street - distribution center for bottled drinking water.



There are a number of automotive repair shops in the vicinity. Additionally, two printing shops and a concrete construction company are located nearby.

According to the Orange County Water District, no drinking water production wells exist within 1,000 Feet of the site. A residential area consisting of single family houses and apartment buildings begins approximately 500 feet south of the site.

At the time of the inspection the facility held the following permits or registrations:

EPA Generator number : CAD 990667826
Orange County Hazardous Waste Program: Registration Number
465

Orange County Sanitation Districts: Class I Permit for
Industrial Wastewater Discharge Number 2-561

GEOLOGY/HYDROGEOLOGY

The following discussion of site geology/hydrogeology is compiled from the following documents:

"Ground-water Geology of the Coastal Zone, Long Beach-Santa Ana Area, California", ,J.F. Poland, A.M. Piper, et al, 1956, U.S. Geological Survey Water Supply Paper 1109.

"Progress Report On Ground Water Geology of the Coastal Plain of Orange County", California Department of Water Resources, 1967.

The site lies near the western boundary of the Tustin Plain, where it merges with the Downey Plain. The near-surface deposits in this central lowland area are thought to be of Recent or Pleistocene age and are composed of alluvial sediments (mixtures of gravel/sand/silt/clay) derived predominantly from the Santa Ana Mountains. The area near the site is likely a combination of sediments deposited from



Santiago Creek and the Santa Ana River. Site specific geology is discussed below in Findings.

According to Steve Overman of the California Regional Water Quality Control Board, groundwater exists approximately 90 to 100 feet below surface elevation and generally flows to the southwest. Groundwater production in the area near the site includes the City of Orange wells #18 and #19 (see Figure 1, for approximate location). These wells are reported by the City of Orange Water Department, to be sealed to approximately 400 feet depth with perforated sections placed intermittently between that depth and their total depths of approximately 1000 feet.

FIELD INVESTIGATIONS

Our field investigations included two tasks. The first involved a soil vapor survey to screen the site for the presence of petroleum hydrocarbon vapors in the soils. The second task involved the collection and analysis of soil samples from selected borings.

Soil Vapor Survey

On February 23, 1988, a soil vapor survey was conducted at the subject site. The survey consisted of the placement of twenty-four (24) temporary soil vapor probes from which vapor samples were collected and analyzed onsite using a portable gas chromatograph. The locations of the vapor sampling are shown on Figure 3. Other details concerning the soil vapor survey are discussed in Attachment I, which also contains copies of the actual chromatograms.



Soil Sampling

On February 25, 1988, five soil borings were excavated and soil samples collected. The locations of the borings are shown on Figure 3. Analytical results of soil samples analyzed are presented in Table 2. Attachment II contains a discussion of the details of the borings and copies of the boring logs. Boring SB-1 was excavated to a depth of approximately 65 feet. It had been planned that this boring would be drilled to ground water and that a monitoring well would be installed to sample ground water. The boring was terminated at the 65 foot depth because of drilling difficulty. It was subsequently felt by Pennwalt Corporation that installation of the monitoring wells would be unwarranted due to the depth to the uppermost aquifer (approximately 90 feet).

Boring SB-2 was terminated at 5 feet depth because the bottom of a gravel layer was encountered, saturated with an oil/water mixture. This perched liquid was believed to be limited to a depth of 5 feet, because a layer of clayey material was encountered below it.

FINDINGS

Soil Vapor Survey

Results from the soil vapor survey suggest that a low level of vapors exists in the soil at this site. However, an area between the old building (east side of site) and the existing tank farm was encountered during the survey with perched fluids (oil/water mixture). It was reported by site personnel that a former above-ground tank farm was located in this area (east of the present tank farm), and that a gravel bed had existed there as a base for the tanks. Boring SB-2 confirmed the presence of this gravel bed and the perched fluids in it.



Soil Borings and Sample Analyses

Boring logs for the five (5) borings are presented in Attachment II. To summarize, the site which has an asphalt concrete/cement concrete surface, is underlain by alluvial sediments composed predominantly of gravel, except for the upper ten to fifteen feet, which consisted of finer grained sediments, including sands, silts, and clays.

As mentioned above, a gravel bed was encountered in Boring SB-2, which was saturated with an oil/water mixture. This fluid was analyzed to evaluate the type of hydrocarbons it contained. Comparison of Methods 418.1 and 8015-M, suggest that the hydrocarbons in the lighter than water phase are composed of diesel fuel range hydrocarbons (approximately 30 %) and light oil range hydrocarbons (approximately 70 %). Additionally, low levels of PCB's (Aroclor 1242) and 2-Butanone (methyl-ethyl ketone) were detected in one sample of this fluid.

Soil samples collected from the other four borings were analyzed for Purgeable Organics by EPA Method 8240. None of these compounds were detected in any of the four (4) samples analyzed (see Table 2).

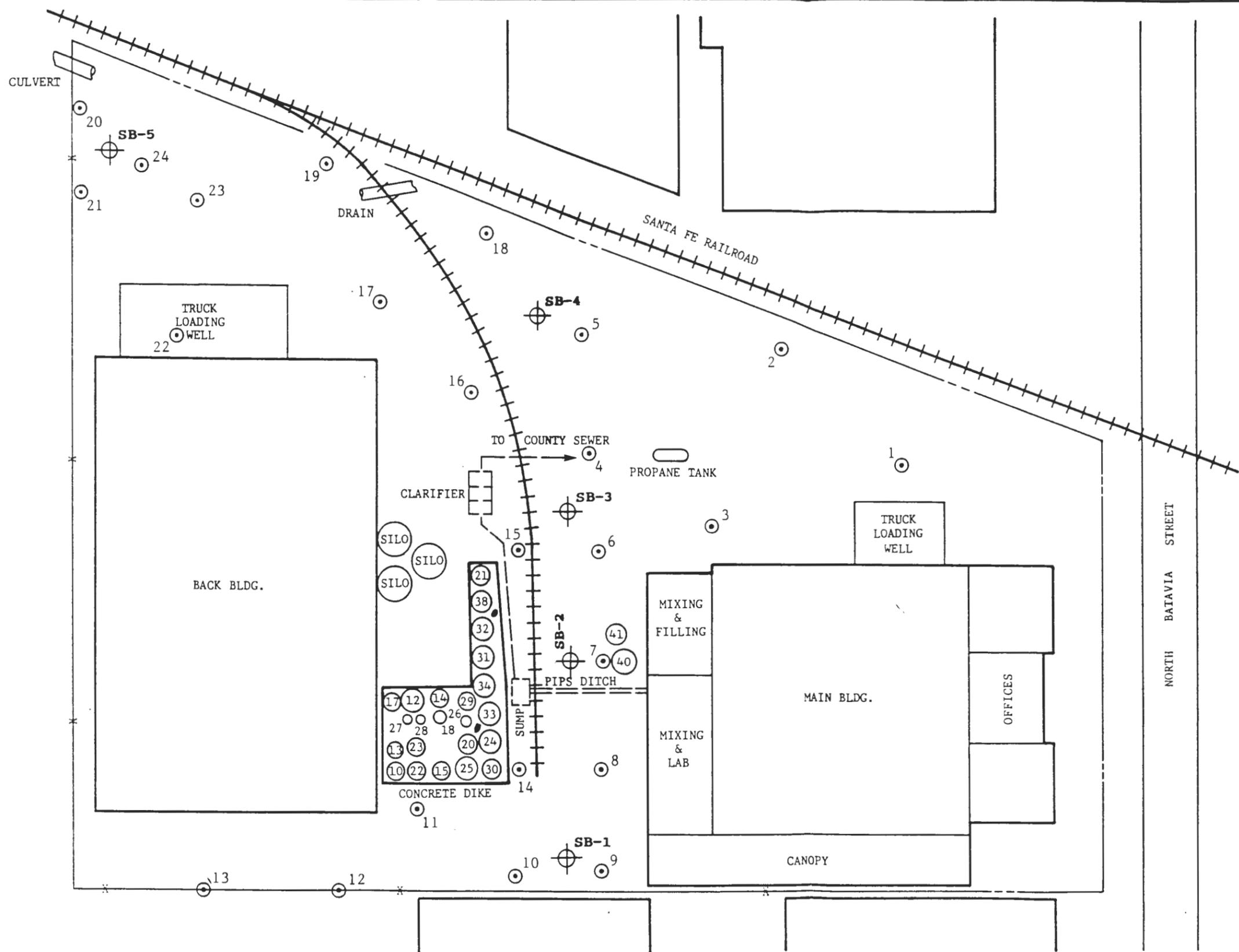


TABLE 2

Results from Laboratory Analyses of Soil Samples

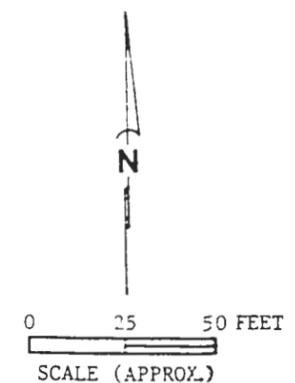
<u>SAMPLE</u>	<u>METHOD</u>	<u>RESULTS</u>
SB-1-10'	8240	None detected
SB-1-35'	8240	None detected
"	418.1	None detected
SB-2-5'	8240	None detected
"	418.1	617 mg/kg hydrocarbons
SB-3-5'	8240	None detected
SB-4-5'	8240	None detected
SB-5-5'	8240	None detected

* please see attached laboratory report for list of compounds analyzed and detection limits.



EXPLANATION

- ⊙₁ SOIL VAPOR SAMPLE LOCATION
- ⊕_{SB-1} SOIL BORING LOCATION



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SITE PLAN
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

DRAWN BY: <i>AM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-202
CHK'D BY:	REVISED:	DWG. NO.: FIGURE 3

CONCLUSIONS

Based on the results from the soil sample analyses, presented in Table 2, soil conditions do not appear in general to have been impacted except for the area around Boring SB-2. The extent of this impacted area is believed to be limited to the area of the former above-ground tank farm.

STUDY LIMITATIONS

This report, including the exhibits attached, describes the results of ENSR's initial investigation to evaluate the environmental conditions at the site particularly with regard to impacts to soil or groundwater, if any. The conclusions and recommendations stated herein represent the application of a variety of engineering and technical disciplines to material facts and conditions associated with the subject site, as a result of Phase I and Phase II investigations which were conducted during the period of February 17 through March 18, 1988. Many of these facts and conditions are subject to change over time; accordingly, the conclusions and recommendations must be viewed within this context. We also note that groundwater was not sampled.

ENSR has performed this site assessment in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Finally we note that this assessment was prepared for the use of Pennwalt Corporation. ENSR shall not be responsible for conditions or consequences arising from any matters related to the investigation and this report.



ATTACHMENT I

Soil Vapor Survey

Soil vapor mapping is conducted along discrete specified grid coordinates. For this site, grid points were set at approximately 50-foot centers across the center of the site. Sampling was also conducted on a less regimented pattern along the southern and northern sides of the site.

A total of 24 soil vapor probes were sampled during this survey. A specially-constructed 1/4-inch O.D. by 36-inch long stainless steel probe was manually inserted to a depth of 34 to 36 inches into the subsurface. The probe channel was partially predrilled using a portable 15-pound plunger bar or drop-hammer. The drop-hammer, consisting of a 4-1/2-foot-long, 1/2-inch-diameter steel rod, topped with a 15-pound steel weight, was used to drill to a soil depth of approximately 30 inches, the probe being hand-driven the remaining 4 to 6 inches into fresh, undisturbed soil. No cuttings or waste soil/water was generated by this procedure. Following installation, the probes were attached to the gas chromatograph utilizing a 1/8-inch O.D. by 5-foot length of Teflon gas tubing. Air blanks were taken through the probes and analyzed before the probes were inserted into the soil for each soil vapor analysis.

A Photovac Model 10S50 autocomputer portable gas chromatograph was used to analyze the vapor samples. The GC included a CSP-20M, 80/100 mesh analytical column (1/8-inch O.D. by 4-foot O.A.L.) and 6-inch CSP-20M precolumn. A special ultra-pure grade of compressed air was used as carrier gas.

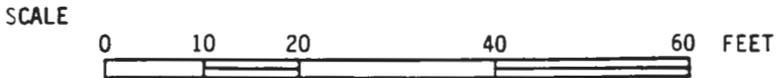
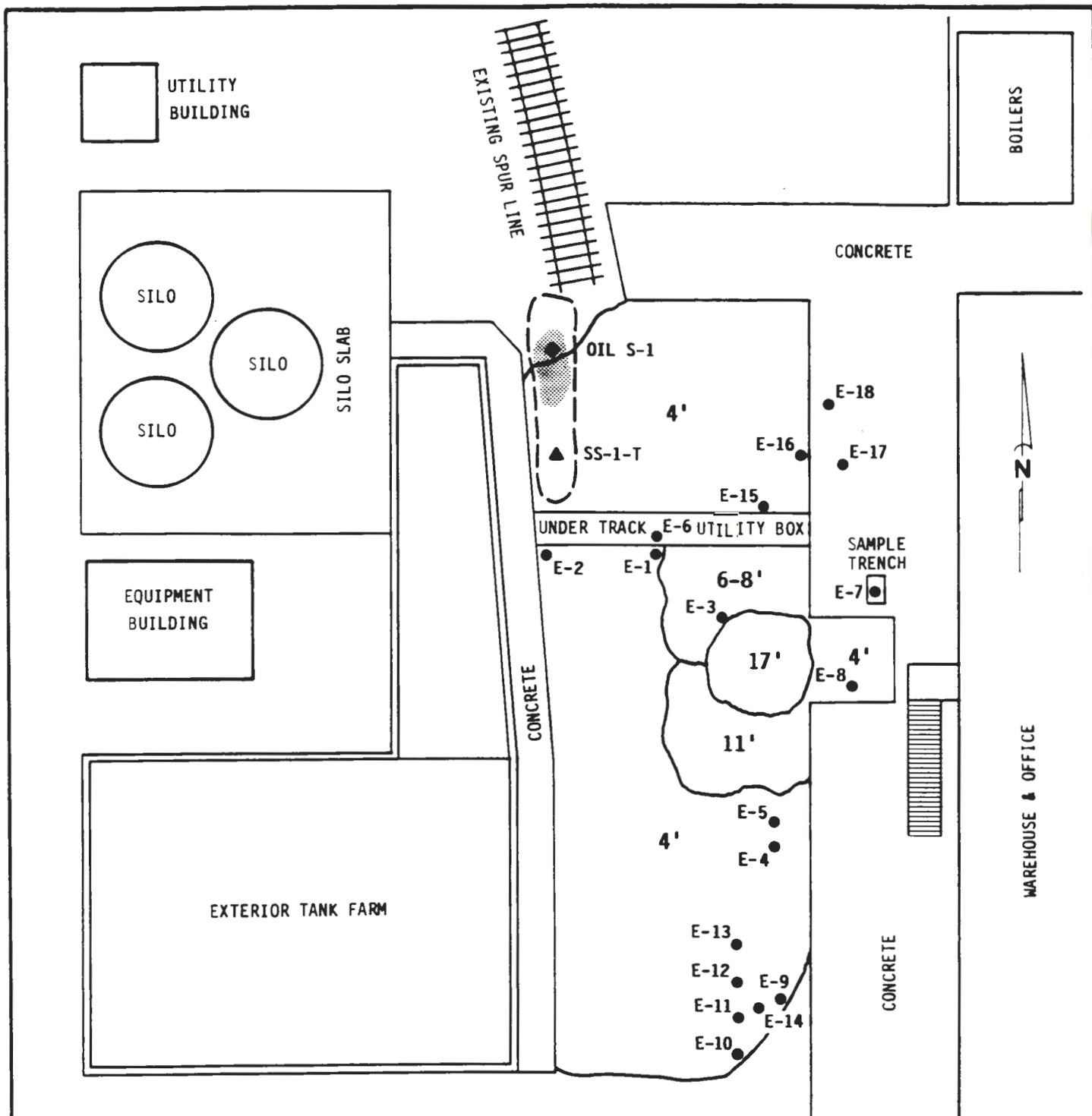
Sampling Protocol

Soil vapor analysis was conducted per the following protocol:

- 1) Inserted stainless steel soil vapor probe to a depth of 34 to 36 inches. The probes were sampled no later than 30 to 60 minutes after installation.
- 2) The GC was standardized using a benzene gas standard (254 ppb) prior to conducting the survey.
- 3) "Air-blanks" were analyzed by sampling the background air through the sample probe before each vapor analysis.

PENNWALT: FEB 23, 1988

<u>Sample</u>	<u>Total</u>	<u>Air (MVS)</u>	<u>Net (MVS)</u>
1	3808	211	3597
1 (repeat)	4327	211	4116
2	4329	165	4164
3	1961	132	1829
4	6414	43	6371
5	4830	291	4539
6	4128	222	3906
7	8745	131	8614
8			*Significant soil moisture
9	8795	84	8711
10	15073	285	14788
11	16782	713	16069
11 (repeat)	7038	713	6325
12	4656	275	4381
13	9414	232	9182
14	43853	353	43500
15	15176	203	14973 *used second "air" reading
16	458	894	-436
16 (repeat)	278	894	-616
17	9565	15	9550
18	7836	13	7823 *used second "air" reading
19	30875	469	30406
20	18080	351	17729
21	126	502	-376
21 (repeat)	6	502	-496
22	111	78	33
23	7238	41	7197
24	3365	200	3165

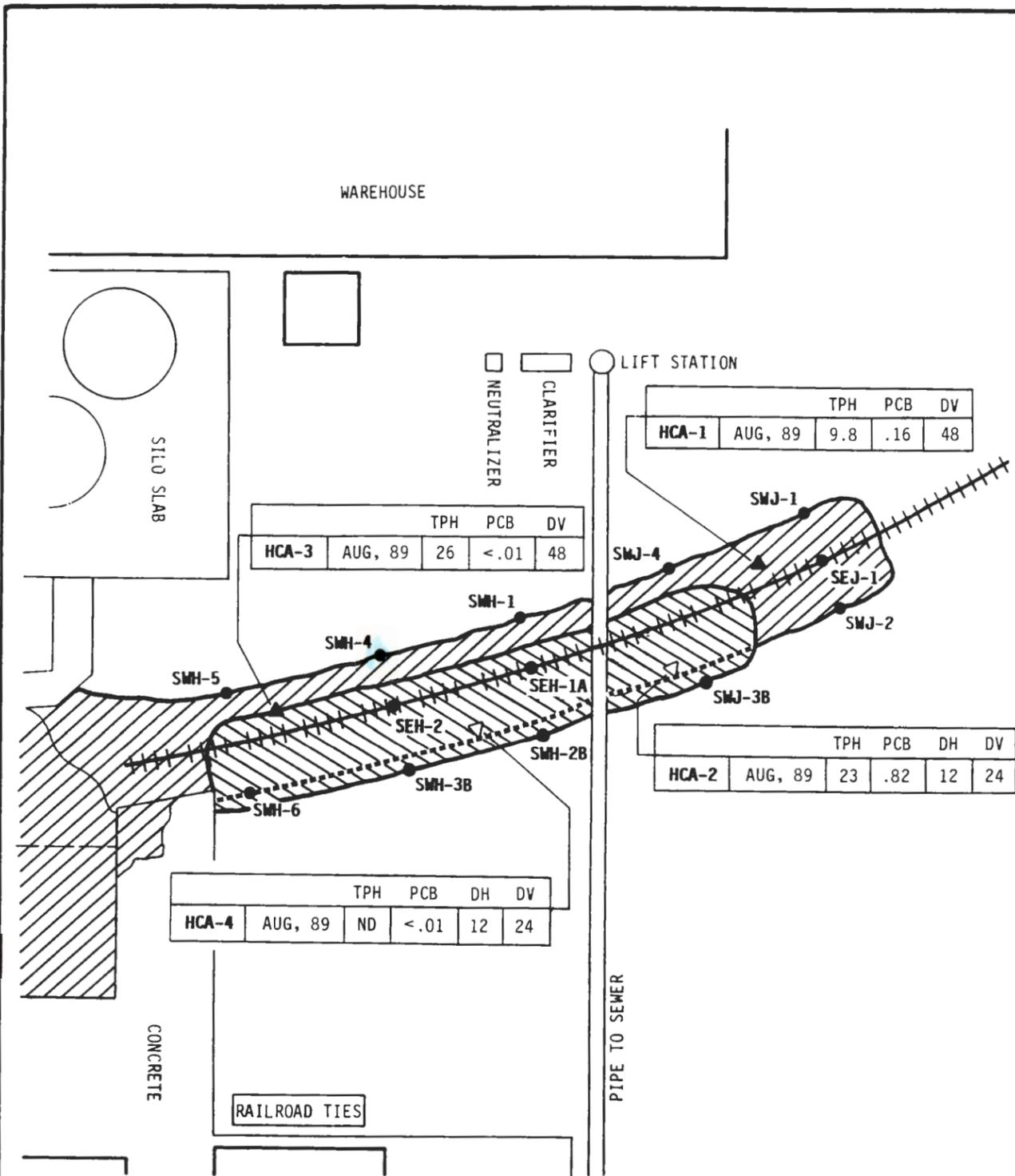


EXPLANATION

- 17' EXCAVATION AREA DEPTH
- E-18 EXCAVATION SAMPLE LOCATION
- ▲ SS-1-T SOIL SAMPLE LOCATION

REFERENCE: PENNWALT CORP., ORANGE, CALIFORNIA,
 B.P. BISHOP CORP., GENERAL CONTRACTOR
 FEBRUARY 7, 1988

<h1>ENSR</h1>		
INTERMEDIATE POST-EXCAVATION SAMPLE LOCATIONS		
DRAWN BY: <i>AM</i>	DATE: <i>6/29/89</i>	PROJECT NO.: C89-133-C20
CHK'D BY:	REVISED: <i>12/15/89</i>	DWG.NO.: FIGURE 1-1



	TPH	PCB	DH	DV
HCA-4	AUG, 89	ND	<.01	12 24

	TPH	PCB	DV
HCA-3	AUG, 89	26	<.01 48

	TPH	PCB	DH	DV
HCA-2	AUG, 89	23	.82 12	24

	TPH	PCB	DV
HCA-1	AUG, 89	9.8	.16 48

EXPLANATION

- +++ FORMER RAILROAD TRACK LOCATION
- EXCAVATION & SAMPLE LOCATIONS
- SW ADDITIONAL POST EXCAVATION SIDE WALL SAMPLE
- SE ADDITIONAL POST EXCAVATION SOIL SAMPLE-BOTTOM
- ▲ FINAL POST EXCAVATION SOIL SAMPLE-BOTTOM. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- △ FINAL POST EXCAVATION SOIL SAMPLE-SIDE WALL. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- DH DEPTH-HORIZONTAL
- DV DEPTH-VERTICAL
- TPH TOTAL PETROLEUM HYDROCARBONS PER EPA 418.1
- PCB EPA NO. 8080
- BTEX EPA NO. 8020 & 5030
- TPH-1 TOTAL PETROLEUM HYDROCARBONS PER EPA 8015 MOD.
- ND NON DETECTABLE

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

SAMPLE NAME	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	PCB	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE	
		EPA #418.1	EPA #8080	DH	DV
SWH-1	JULY 89	280	1.8	12"	12"
SWH-4	JULY 89	3,200	38	12"	12"
SWH-5	JULY 89	1,400	5.6	12"	12"
SWH-6	JULY 89	190	<0.1	12"	12"
SWJ-1	JULY 89	380	1.2	12"	12"
SWJ-2	JULY 89	30	1.5	12"	12"
SWJ-4	JULY 89	500	21	12"	12"
SEH-2	JULY 89	53	1.0	12"	30"
SEJ-1	JULY 89	58	<0.1	12"	30"
SWJ-3B	AUG 89	580	16	6"	30"
SEH-1A	AUG 89	--	8.9	6"	54"
SWH-2B	AUG 89	1,600	--	6"	30"
SWH-3B	AUG 89	1,700	--	6"	30"

NOTE: OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.



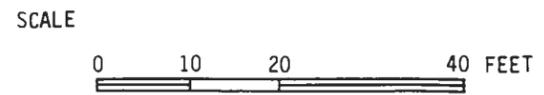
REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
 B.P. BISHOP CORP., GENERAL CONTRACTOR,
 FEBRUARY 7, 1988



FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>BA</i>	DATE: 10/12/89	PROJECT NO.:
CHK'D BY:	REVISED: 10/30/89	DWG.NO.: FIGURE 1-3



SAMPLE NAME	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE
		EPA #418.1	
E-2	JUNE 89	342	48"
E-3	JUNE 89	575	84"
E-4	JUNE 89	230	48"
E-5	JUNE 89	240	48"
E-8	JUNE 89	205	48"
E-9	JUNE 89	ND	48"
E-10	JUNE 89	ND	48"
E-11	JUNE 89	ND	48"
E-12	JUNE 89	ND	48"
E-13	JUNE 89	ND	48"
E-14	JUNE 89	ND	48"
E-15	JUNE 89	19.7	204"
E-17	JUNE 89	ND	96"
E-18	JUNE 89	ND	96"

NOTE: OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
B.P. BISHOP CORP., GENERAL CONTRACTOR,
FEBRUARY 7, 1988

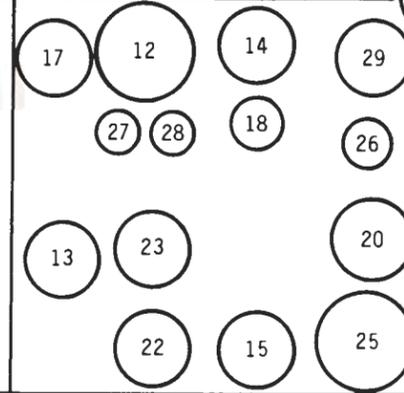
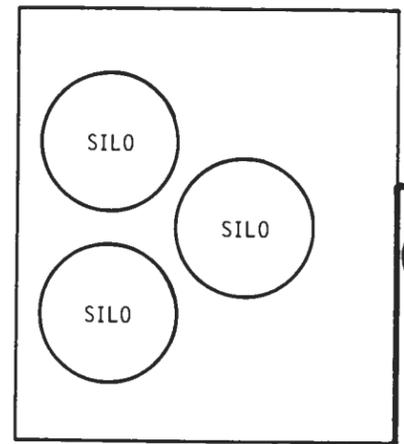
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FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>BM/AS</i>	DATE: 9/26/89	PROJECT NO.:	
CHK'D BY:	REVISED: 10/30/89	DWG. NO.:	FIGURE 1-4

WAREHOUSE



NOTE: FORMER TANK FARM (TANKS EMPTY & DECONTAMINATED)

EXCAVATED AREA
APPROX. 32' SQ. X 24' DEEP

	TPH	PCB	BTEX	DV
TF-2	AUG, 89	610	16	ND 12

	TPH	DV
HCA-10	SEPT, 89	120 48

	TPH	DV
HCA-9	SEPT, 89	25 48

	TPH	DV
HCA-8	SEPT, 89	28 48

	TPH	PCB	DV
HCA-7	AUG, 89	23 <0.01	96

	TPH	DH	DV
HCA-12	SEPT, 89	880 48	12

	TPH	DV
HCA-5A	SEPT, 89	1900 108

	TPH-1	DV
C-1-12	AUG, 89	ND 12

	PCB	DV
TF2-A24	AUG, 89	0.44 24

	PCB	DV
HCA-11-A	SEPT, 89	1.8 24

	PCB	DV
TF2-B24	AUG, 89	0.47 24

	PCB	DV
TF2-C24	AUG, 89	0.74 24

EXPLANATION

- E ADDITIONAL POST EXCAVATION SOIL SAMPLE-BOTTOM
- ▲ FINAL POST EXCAVATION SOIL SAMPLE-BOTTOM. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- △ FINAL POST EXCAVATION SOIL SAMPLE-SIDE WALL. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- DH DEPTH-HORIZONTAL DV DEPTH-VERTICAL
- PCB EPA NO. 8080 ND NON DETECTABLE
- TPH TOTAL PETROLEUM HYDROCARBONS PER EPA 418.1
- TPH-1 TOTAL PETROLEUM HYDROCARBONS PER EPA 8015 MOD.
- BTEX EPA NO. 8020 & 5030

CONCRETE

MIXING & FILLING

CONCRETE

MIXING & LAB

SEE BELOW FOR DETAIL

SUMMARY SITE CLOSURE RATIONALE

Facility Name: Pennwalt Resources affected: Soil Groundwater
Address: 630 N. BATAVIA ORANGE 92668
Current Land Use INDUSTRIAL Future Land Use INDUSTRIAL
Current Adjacent Land Use: INDUSTRIAL Future Adjacent Use INDUSTRIAL

Resources affected: Soil Groundwater
Highest Initial/Final Concentrations (mg/kg) of Each Contaminant in Soil:
PCB 130ppm, 3.2ppm / 1
(Name) (Conc.) (Name) (Conc.)
TPH 37200ppm, 1700ppm / 1
(Name) (Conc.) (Name) (Conc.)
Extent of Contamination (Lateral And Vertical) - Areal 200' x 20' x Vertical 10'

Soil Type: SAND-CLAY-SILT Deepest Boring 65'
Depth To Groundwater: 90 Ft. (Measured By Borings, Estimated) RWQCB
Hydrogeologic Conditions: Forebay Pressure Zone
 Hills Near O.C.W.D. Recharge Zones

Special Conditions: PCB CONTRIBUTING PROCESSES DISMANLED 1979
ENTIRE PENNWALT FACILITY OPERATED 1989

Describe Cleanup Efforts: EXHAUSTION - SAMPLE - EXCAVATION
FINAL VERIFICATION
OK
WSD
2/13/91

Rationale For Closure: PCB HAS BEEN REDUCED TO WELL
BELOW THE FEDERAL CLEANUP STANDARDS OF
25ppm FOR SECURE SITES.
TPH HAS BEEN REDUCED SATISFACTORILY

ACTIVITIES REPORT

Company Name: Pennwalt
 Address: 630 N. BATAVIA 89IC23
 City: ORANGE, CA 92668
 Contact Person(s): SAM BALAMOUN Phone: (215) 337-6810
ATOCEM-NORTH AMERICA (PENNWALT)

Date	Staff	ACTIVITIES/COMMENTS
9-14-90		SPOKE w/ Sam to REITERATE need to study 38ppm-PCB AREA. NEED TO HOLD CLEANUP TO AT LEAST 25ppm-(EPA) + TPH TO 1000-1800ppm. WILL SCHEDULE SAMPLE DATE.
9-17-90		SAM CALLED TO CONFIRM 2p- WED 9-19-90 SUPPLY TO STUDY HIGH PCB SAMPLE AREA - SW WILL BE ONSITE ALSO - RELOCATE 38ppm-PCB SITE - WILL SAMPLE & CALL FOR QUICK TURN AROUND - CALL FBI TO CHECK RESULTS. W/OUT LETTER ASAP.
9-19-90		SUPPLY ONSITE FINAL VERIFICATION OF PROBLEM AREA LEFT OVER FROM PREVIOUS WORK. SWH-4. THIS AREA WAS BELIEVED TO HAVE BEEN REMEDIATED PREVIOUSLY AND MAY HAVE BEEN, BUT THE DATA REMAINED ON THE FINAL REPORT BINDER DECEMBER, 89. (38ppm) LAB DATA - SAM WILL BE CONGRS.
9-20-90 9-21-90		LAB DATA FAXED THIS DATE - THREE SAMPLES FROM THREE BORINGS: 2' DEEP 3.2ppm 4' DEEP 3.0ppm 6' DEEP NON DETECT OTHER ONSITE, NON DETECT OR LOW LEVEL DATA INDICATED REMEDIATION IS SATISFACTORY AND IN PROGRESS WITH DEPTH. FEDERAL CLEANUP LEVEL IS 25ppm
9-21-90		CLOSURE LETTER

ACTIVITIES REPORT

Company Name: Pennwalt
 Address: 630 N. BIRNIA
 City: Orange 92668
 Contact Person(s): Sam Bilamoun

89 IC 23

Phone: (215) 337-6810

Date	Staff	ACTIVITIES/COMMENTS
2-5-90	Z	review site history
2-16-90	Z	some initial difficulty relating data with before no other excursions - final report draft
3-14-90	Z	review manifest's
4-26-90		continues finish manifest review + volume audit.
5-17-90		telecom with Sam. - investigate 38 ppt PCB. was it dealt with during remediation or does it still remain
3-6-90		write up site history & lab data sequence
3-7-90		write up
3-8-90		review & write-up
3-10-90		review new data from Sam
3-14-90		telecom with Sam - lab results need to sup l&c SWH-4

ACTIVITIES REPORT

Company Name: Pennwalt

Address: _____

City: _____

Contact Person(s): _____ Phone: _____

Date	Staff	ACTIVITIES/COMMENTS																																						
9-5-89		<p>Sam called with verbal lab results from samples 8-31-89.</p> <table border="0" style="margin-left: 40px;"> <tr> <td></td> <td style="text-align: center;"><u>418.1</u></td> <td style="text-align: center;"><u>8080</u></td> <td></td> </tr> <tr> <td>HCA-1</td> <td style="text-align: center;">9.8 pp-</td> <td style="text-align: center;">0.16 pp-</td> <td></td> </tr> <tr> <td>2</td> <td style="text-align: center;">23</td> <td style="text-align: center;">0.82</td> <td></td> </tr> <tr> <td>3</td> <td style="text-align: center;">26</td> <td style="text-align: center;"><0.01</td> <td></td> </tr> <tr> <td>4</td> <td style="text-align: center;">ND</td> <td style="text-align: center;"><0.01</td> <td></td> </tr> <tr> <td>5</td> <td style="text-align: center;">13,000</td> <td style="text-align: center;">.57</td> <td></td> </tr> <tr> <td>6</td> <td style="text-align: center;">15,000</td> <td style="text-align: center;">.75</td> <td>NORTH SIDEWALL 24"</td> </tr> <tr> <td>7</td> <td style="text-align: center;">23</td> <td style="text-align: center;"><0.01</td> <td>BOTTOM</td> </tr> </table> <p>TANK FARM 3 samples surrounding TOPP-</p> <table border="0" style="margin-left: 40px;"> <tr> <td>TF 2-A-24"</td> <td style="text-align: center;">-0.44 pp-</td> </tr> <tr> <td>TF 2-B-24"</td> <td style="text-align: center;">-0.47 "</td> </tr> <tr> <td>TF 2-C-24"</td> <td style="text-align: center;">-0.74 "</td> </tr> </table> <p style="margin-left: 40px;">EXCAVATE 2'x2'x2' Require at least one verification</p> <p>North Trench Lateral 2' 4' 6' DEPTH 4' 2'84' 2'84'</p> <p style="margin-left: 40px;">DISCUSS 13,000</p> <p>HCA-5 --- 4' DEPTH.</p>		<u>418.1</u>	<u>8080</u>		HCA-1	9.8 pp-	0.16 pp-		2	23	0.82		3	26	<0.01		4	ND	<0.01		5	13,000	.57		6	15,000	.75	NORTH SIDEWALL 24"	7	23	<0.01	BOTTOM	TF 2-A-24"	-0.44 pp-	TF 2-B-24"	-0.47 "	TF 2-C-24"	-0.74 "
	<u>418.1</u>	<u>8080</u>																																						
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TF 2-C-24"	-0.74 "																																							

ACTIVITIES REPORT

Company Name: Pennwalt
 Address: 630 N. BATAVIA
 City: ORANGE 92668
 Contact Person(s): SAM BALAMOUN Phone: (215) 337-6810

Date	Staff	ACTIVITIES/COMMENTS
3-3-89		Sam calls Gaggioli - Gaggioli will give case to Finnan.
3-8-89		TELEPHONE DISCUSSION WITH SAM BALAMOUN - HISTORY OF SITE, ASSESSMENT & REMEDIAL WORK HISTORY TO DATE
3-9-89		MORE DATA FROM SAM
3-15-89		RECEIVED LETTER FROM SAM DISCUSSES MEETING TO BE HELD ONSITE, 8-16-89.
3-16-89		MEETING ONSITE WITH SAM & ENSR CONSULTANTS JOBSITE WALK.
3-30-90		FILE WORK
3-31-90		SAMPLE COLLECTION & DOCUMENTATION
5-90		SAM CALLS WITH VERBAL HIS RESULTS SEE ATTACHED FOLLOWING PAGE.
		RECEIVED FINAL REPORT. REVIEW

7-8-89 week

meet w/ mr. schinski, the pennwalt corp. offer overseeing the site cleanup. We again exchanged the same information and I explained that we still had not received a copy of the plan.

7-14-89 week

The Pennwalt Plan arrives.

7-19-89 week

The PLAN IS REVIEWED AND found to be in ~~add~~ adequate.

7-25-89 week

Spoke w/ mr. schinski and explained why we still have further questions regarding the site assessment plan. He said that he would like to meet on 8-1- or 8-2 of NEXT week to discuss the cleanup + site plan.

8/25/89

Grass

Sam Bauerman of PENNVALT called. He said fieldwork has been completed and 2 reports can be expected; The 1ST will be short + concise, The 2nd will be comprehensive.

6-30-89

wells

HE suggested I CALL MR. SCHINISKI THE Project Manager back in Philadelphia. When I returned to the office a Mr. Sam Balanu of Pennwalt Corp. called. ~~He~~ He wanted to explain the ACTIVITY AT THIS SITE. HE IS THE ENV. compliance mgr. for Pennwalt Corp. HE VERY carefully explained that THEY WERE NOT AWARE THAT THEY WERE REQUIRED TO NOTIFY THE LOCAL AGENCY OF ANY VOLUNTARY CLEANUP ACTIVITY. HE FURTHER EXPLAINED that they ~~was~~ would cooperate in any further action taken at this site. I explained that we would require a copy of the original site assessment plan and any ~~the~~ Lab. sample results. He explain that they would comply but would like to know what cleanup level ~~was~~ ~~that~~ would we require. I explained that that would depend on the background levels and the particular conditions of the public + private use ~~at~~ SURROUNDING the property. I again said that we ~~would~~ would need to see a copy of the site plan + any Lab. results. He said that they have found contaminated soil ~~and~~ from oil products and some traces of P.C.B. I said that we would talk again after we review the plan + lab. samples results.

ACTIVITIES REPORT

Company Name: PENNWALT

Address: 630 N. Batavia

City: Orange, CA. 92668

Contact Person(s): _____

Phone: _____

Date	Staff	ACTIVITIES/COMMENTS
5-28-89	Wells	<p>Mr. CONN FROM Morgan-Gallagher, INC. SPOKE W/ ME AT THE FRONT COUNTER. HE REPRESENTS THE POTENTIAL BUYERS OF THE PENNWALT PROPERTY. HE WAS REQUESTING INFORMATION REGARDING ANY CLEANUP OR OTHER INFORMATION AT THIS SITE. I INDICATED THAT WE HAD NO INFORMATION OF A CLEANUP IN PROGRESS AT THIS SITE. HE EXPLAINED THE SITUATION PENNWALT CORP., IN THE PROCESS OF CLOSURE OF THEIR PLANT AND SUBSEQUENT SALE OF THE PROPERTY, DISCOVERED CONTAMINATION ON THE PROPERTY AND STARTED CLEANUP + REMOVAL.</p>
5-30-89	Wells	<p>I WENT OUT TO THE PROPERTY TO INVESTIGATE THE CLEANUP ACTIVITY AT THE PENNWALT SITE. LARGE EXCAVATION PITS HAD BEEN CONSTRUCTED. THE SPOILS PILES WERE COVERED W/ PLASTIC AND SEALED AT THE EDGES. I SPOKE W/ MR. DODDS THE MANAGER OF PENNWALT DURING THE CLOSURE. HE SAID THAT HE WAS NOT INVOLVED W/ THE CLEANUP ACTIVITY. HE</p>

He suggested I call Mr. Scatnikski. The project manager back in Philadelphia. When I returned to the office a Mr. Sam Balaman of Pennwalt Corp. called. He wanted to explain the activity at this site. He is the Env. compliance mgr. for Pennwalt Corp. He very carefully explained that they were not aware that they were required to notify the local Agency or any voluntary cleanup activity. He further explained that they would cooperate in any further action taken at this site. I explained that we would require a copy of the original site assessment plan and any lab. sample results. He explained that they would comply but would like to know what cleanup level ~~was~~ ~~was~~ ~~was~~ I explained that that would depend on the budget levels and the particular conditions of the public + private use ~~at~~ surroundings the property. I again said that use ~~that~~ would need to see a copy of the site plan + any lab. results. He said that they have found contaminated soil ~~at~~ from oil products and some traces of P.C.B. I said that we would talk again after we review the plant lab. sample results.



September 21, 1990

Sam Balamoun
Atochem North America, Inc.
900 First Avenue
King of Prussia, PA 19406-0018

Subject: Remedial Action At Former Pennwalt Facility, 630 N. Batavia, Orange,
CA 92668 - O.C.H.C.A. Case #89IC23

Dear Mr. Balamoun:

This letter confirms the completion of site investigation and remedial action at the above site. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this Agency of any changes in report content, future contamination findings, or site usage.

If you have any questions regarding this matter, please contact Gary Zimmerman (714) 667-3761.

Very truly yours,

William J. Diekmann, REHS, M.S.
Supervising Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

WJD:GZ:db

TOM URAM
DIRECTOR

L. REX EHLING, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS MPH
DEPUTY DIRECTOR

MAILING ADDRESS: P.O. BOX 355
SANTA ANA, CA 92702





Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

FAX TRANSMISSION FROM DEL MAR ANALYTICAL

FAX NUMBER: (714) 261-1228

TELEPHONE NUMBER: (714) 261-1022

THIS IS PAGE ONE OF _____ PAGES

TRANSMISSION IS BEING SENT TO:

COMPANY: Riedel Environmental

ATTENTION: E. Nelson

DATE: 9.21.90

NOTES/REMARKS:



RIEDEL ENVIRONMENTAL SERVICES, INC.

California/Western Region
19500 Normandie Avenue
Torrance, California 90502-1108
(213) 327-4428
FAX (213) 327-8256

TELECOPY TRANSMITTAL COVER SHEET

TO: GARY ZIMMERMAN DATE: 9/21/90

COMPANY: O.C.D.H.S.

REFERENCE: ATD CHEM - ORANGE FACILITY

TOTAL NUMBER OF PAGES INCLUDING THIS COVER SHEET: _____

FAX NO. (714) 972-0749 PHONE NO. (714) 667-3761

FROM: ERIK NELSON

PHONE NO. (213) 327-4428

FAX NO. (213) 327-8256

MESSAGE: _____

LAB RESULTS FROM
RIEDEL MAR 1993

NOTE: PLEASE CALL (213) 327-4428, IF YOU DO NOT RECEIVE ALL PAGES CORRECTLY

FL-II.FAXTRANS

24-Hour Hotline (800) 334-0004

A Subsidiary of Riedel Environmental Technologies, Inc.



Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
 (714) 261-1022 • FAX (714) 261-1228

Riedel Environmental Services, Inc. Client Project ID: Atochem - Pennwalt Job # 4829	Sampled: Sep 19, 1990
19500 S. Normandie Avenue PO# 112289	Received: Sep 19, 1990
Torrance, CA 90502 Analysis Method: EPA 418.1 (I.R. with clean-up)	Analyzed: Sep 20, 1990
Attention: Sal Duarte First Sample #: 009-0962	Reported: Sep 21, 1990

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description Soils	Petroleum Hydrocarbons mg/Kg (ppm)
009-0962	SWH-4A	260
009-0963	SWH-4B	N.D.
009-0964	SWH-4C	110

Detection Limits:	5.0
-------------------	-----

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL

Gary Steube
 Laboratory Director



Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
 (714) 261-1022 • FAX (714) 261-1228

Riedel Environmental Services, Inc. Client Project ID:	Atochem - Fenwatt Job # 4828	Sampled:	Sep 19, 1990
18500 S. Normandie Avenue	PC# 112280	Received:	Sep 19, 1990
Torrance, CA 90502	Sample Descript: Soil, SWH-4A	Analyzed:	Sep 20, 1990
Attention: Sai Duarte	Lab Number: 009-0962	Reported:	Sep 21, 1990

ORGANOCHLORINE PESTICIDES AND PCB'S (EPA 8080)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB-1016	1,000.0	N.D.
PCB-1221	1,000.0	N.D.
PCB-1232	1,000.0	N.D.
PCB-1242	1,000.0	N.D.
PCB-1248	1,000.0	300
PCB-1254	1,000.0	N.D.
PCB-1260	1,000.0	N.D.

*3000
ppm
3 ppm*

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

DEL MAR ANALYTICAL

Gary Staube
 Laboratory Director



Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
 (714) 261-1022 • FAX (714) 261-1228

Riedel Environmental Services, Inc. Client Project ID: Atochem - Pennwalt Job # 4929 18500 S. Normandie Avenue Torrance, CA 90502 Attention: Sal Duarte	Sample Descript: Sol, SWH-4B Lab Number: 009-0963	Sampled: Sep 18, 1990 Received: Sep 19, 1990 Analyzed: Sep 20, 1990 Reported: Sep 21, 1990
--	--	---

ORGANOCHLORINE PESTICIDES AND PCB'S (EPA 5030)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB-1016	500.0	N.D.
PCB-1221	500.0	N.D.
PCB-1232	500.0	N.D.
PCB-1242	500.0	N.D.
PCB-1248	500.0	N.D.
PCB-1254	500.0	N.D.
PCB-1260	500.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

DEL MAR ANALYTICAL

Gary Staube
 Laboratory Director



Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

Riedel Environmental Services, Inc.	Client Project ID: Atochem - Penrwell Job # 4929	Sampled: Sep 19, 1990
19500 S. Normandie Avenue	PO# 112280	Received: Sep 19, 1990
Torrance, CA 90502	Sample Descript: Soil, SWH-4C	Analyzed: Sep 20, 1990
Attention: Sai Duarte	Lab Number: 009-0664	Reported: Sep 21, 1990

ORGANOCHLORINE PESTICIDES AND PCB'S (EPA 8080)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
PCB-1018	500.0	N.D.
PCB-1221	500.0	N.D.
PCB-1232	500.0	N.D.
PCB-1242	500.0	N.D.
PCB-1248	500.0	N.D.
PCB-1254	500.0	N.D.
PCB-1260	500.0	N.D.

3.2ppm

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

DEL MAR ANALYTICAL

Gary Staube
Laboratory Director

00662.RPR <4>

INSPECTION NOTICE

ORANGE COUNTY HEALTH CARE AGENCY
PUBLIC HEALTH & MEDICAL SERVICES
ENVIRONMENTAL HEALTH
Office: 1725 W. 17th Street, Santa Ana, CA 92706
Telephone: (714) 834-7601

Mailing Address:
P.O. Box 355,
Santa Ana, California 92701

BUSINESS NAME Penwork TYPE OF USE Manufact Business DATE 9-9-90
LOCATION 630 N. BATAVIA ORANGE CA 92668 PHONE (215) 337-6810
RESPONSIBLE PERSON Sam BALAMOUN ADDRESS _____ PHONE _____

AN INSPECTION TODAY INDICATES THE FOLLOWING CORRECTIONS MUST BE MADE WITHIN _____ DAY(S)

IN ORDER TO COMPLY WITH THE PROVISIONS OF: CALIFORNIA HAZARDOUS WASTE LAW AND REGULATIONS

REMOVED THREE SOIL SAMPLES COLLECTED AT FORMER SAMPLE SITE SWH-4 (JULY, 1989). SAMPLES COLLECTED FROM SWH-4-A - 4' SWH-4-B - 6' SWH-4-C - 2'

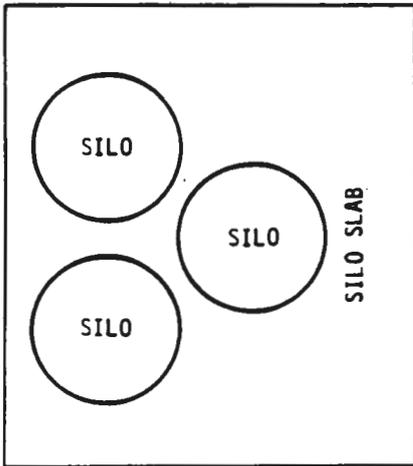
SAMPLES TO BE ANALYZED AT A CERTIFIED HAZ WASTE LAB FOR PCB'S AND WASTE OIL BY EPA METHODS 8080 AND 418.1

Issued by Brad Fin
ENVIRONMENTAL HEALTH SANITARIAN

Received by Samuel B. Balamoun 9/19/90

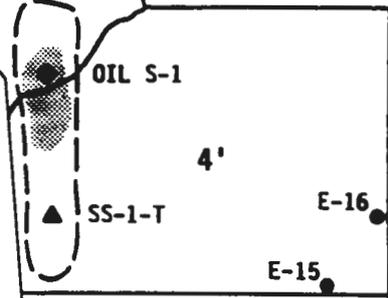
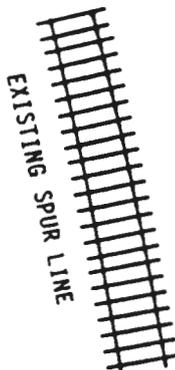
UTILITY BUILDING

BOILERS



EQUIPMENT BUILDING

EXTERIOR TANK FARM



CONCRETE

UNDER TRACK E-6 UTILITY BOX

SAMPLE TRENCH

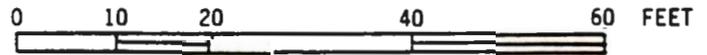
CONCRETE

CONCRETE



WAREHOUSE & OFFICE

SCALE



EXPLANATION

- 17' EXCAVATION AREA DEPTH
- E-18 EXCAVATION SAMPLE LOCATION
- SS-1-T SOIL SAMPLE LOCATION

REFERENCE: PENNWALT CORP., ORANGE, CALIFORNIA,
B.P. BISHOP CORP., GENERAL CONTRACTOR
FEBRUARY 7, 1988

ENSR

INTERMEDIATE POST-EXCAVATION
SAMPLE LOCATIONS

C89-133-C20

DRAWN BY: <i>AM</i>	DATE: 6/29/89	PROJECT NO.:
CHK'D BY:	REVISED: 12/5/89	DWG. NO.: FIGURE 1-1

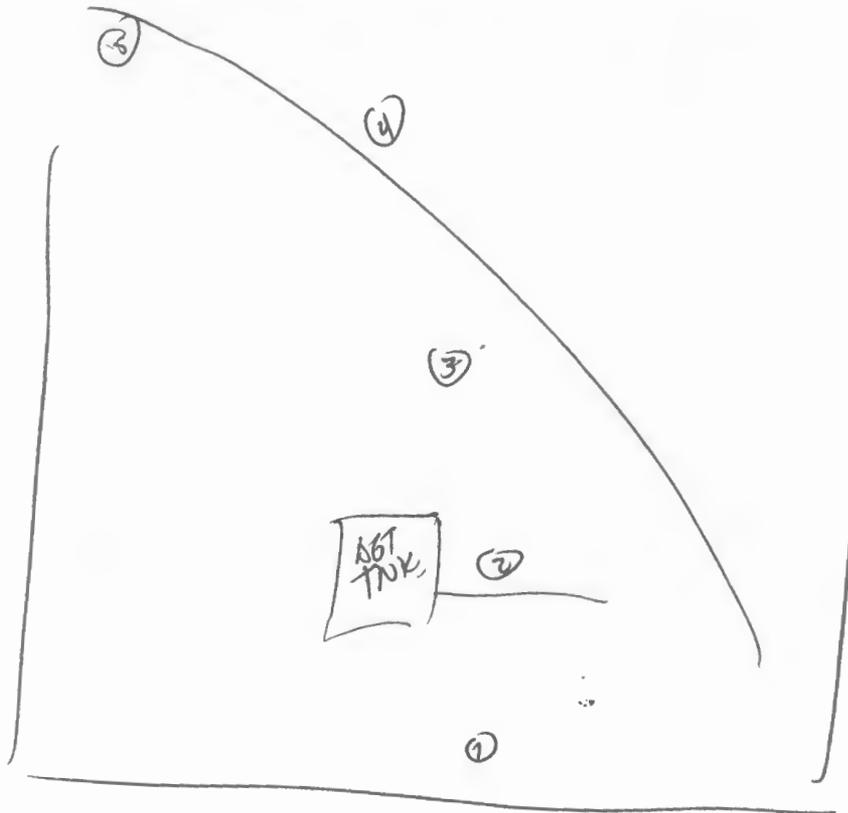
TABLE 2

Results from Laboratory Analyses of Soil Samples

65'

<u>SAMPLE</u>	<u>METHOD</u>	<u>RESULTS</u>
SB-1-10'	8240	None detected
SB-1-35'	8240	None detected
"	418.1	None detected
SB-2-5'	8240	None detected
"	418.1	617 mg/kg hydrocarbons
SB-3-5'	8240	None detected
SB-4-5'	8240	None detected
SB-5-5'	8240	None detected

* please see attached laboratory report for list of compounds analyzed and detection limits.





INTERMEDIATE POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

TABLE I

SAMPLE NAME	DATE SAMPLED	TPH	DEPTH
		EPA #418.1	
✓ E-1	JUNE 89	37,200	48"
E-2	JUNE 89	342	48"
E-3	JUNE 89	575	84"
E-4	JUNE 89	230	48"
E-5	JUNE 89	240	48"
✓ E-6	JUNE 89	4,060	72"
✓ E-7	JUNE 89	5,940	24"
E-8	JUNE 89	205	48"
E-9	JUNE 89	ND	48"
E-10	JUNE 89	ND	48"
E-11	JUNE 89	ND	48"
E-12	JUNE 89	ND	48"
E-13	JUNE 89	ND	48"
E-14	JUNE 89	ND	48"
E-15	JUNE 89	19.7	204"
✓ E-16	JUNE 89	5,377	84"
E-17	JUNE 89	ND	96"
E-18	JUNE 89	ND	96"



FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

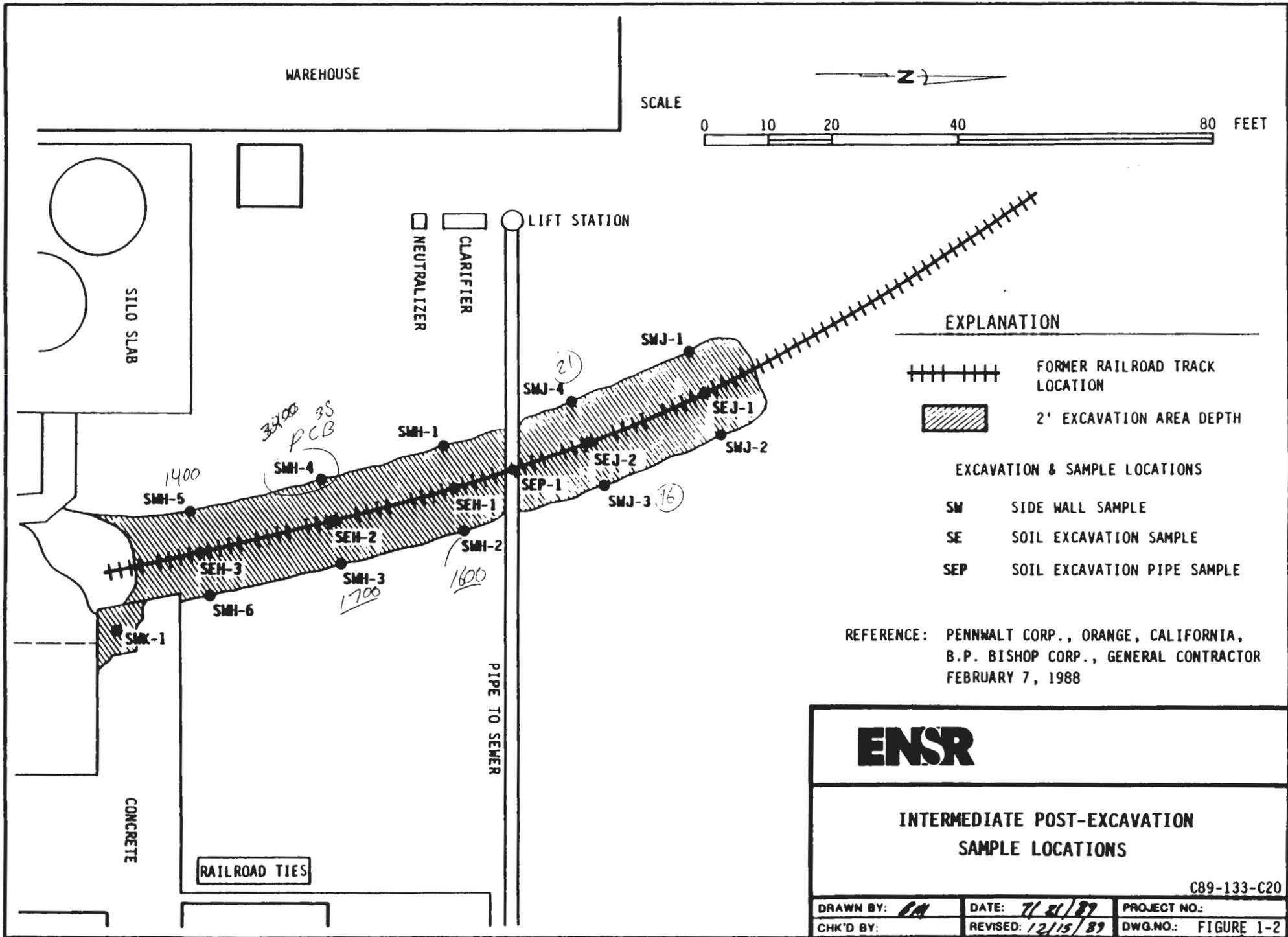
TABLE II

SAMPLE NAME	DATE SAMPLED	TOTAL HYDROCARBONS PETROLEUM	PCB	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE	
		EPA # 418.1	EPA #8080	DH	DV
SWH-1	JULY 89	280	1.8	12"	12"
SWH-4	JULY 89	3,200	38	12"	12"
SWH-5	JULY 89	1,400	5.6	12"	12"
SWH-6	JULY 89	190	<0.1	12"	12"
SWJ-1	JULY 89	380	1.2	12"	12"
SWJ-2	JULY 89	30	1.5	12"	12"
SWJ-4	JULY 89	500	21	12"	12"
SEH-2	JULY 89	53	1.0	12"	30"
SEJ-1	JULY 89	58	<0.1	12"	30"
SWJ-3B	AUG 89	580	16	6"	30"
SEH-1A	AUG 89	---	8.9	6"	54"
SWH-2B	AUG 89	1,600	---	6"	30"
SWH-3B	AUG 89	1,700	---	6"	30"

DH : Depth - Horizontal

DV : Depth - Vertical

TAKEN HCA
1
2
3
4



EXPLANATION

- +++++ FORMER RAILROAD TRACK LOCATION
- 2' EXCAVATION AREA DEPTH

EXCAVATION & SAMPLE LOCATIONS

- SM SIDE WALL SAMPLE
- SE SOIL EXCAVATION SAMPLE
- SEP SOIL EXCAVATION PIPE SAMPLE

REFERENCE: PENNWALT CORP., ORANGE, CALIFORNIA,
 B.P. BISHOP CORP., GENERAL CONTRACTOR
 FEBRUARY 7, 1988

ENSR

**INTERMEDIATE POST-EXCAVATION
 SAMPLE LOCATIONS**

C89-133-C20

DRAWN BY: <i>AM</i>	DATE: 7/21/89	PROJECT NO.:
CHK'D BY:	REVISED: 12/15/89	DWG. NO.: FIGURE 1-2



900 First Avenue, P. O. Box 1536, King of Prussia, Pennsylvania 19406-0018 • (215) 337-6500

December 26, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gary Zimmerman
County of Orange
Health Care Agency
Environmental Health
Waste Management Section
2009 East Edinger Avenue
Santa Ana, CA 92705

Re: Pennwalt Corporation
Former Chemical Specialties Plant
630 N. Batavia Street
Orange, California
Site Remediation - Final Report

Dear Mr. Zimmerman:

Enclosed is the final report including field activities which were completed in October 1989, at the referenced site. Pennwalt elected to implement this **voluntary** site remediation program following its successful decommissioning of the plant facilities in an environmentally sound manner. Decommissioning of these facilities was initiated upon discontinuing manufacturing operations in April, 1989. The attached final report describes the major tasks included in this site remediation project. These tasks included site preparation, soil excavation, air quality and monitoring control, intermediate and final post-excavation soil sampling and analysis programs, quality assurance/quality control protocols, backfilling of the excavated area, compaction and site restoration.

Pennwalt engaged ENSR Constructors of Irvine, California to execute this site remediation program of which field activities were initiated on June 13, 1989. The implementation of this remediation program, including the post-excavation soil sampling and analysis program was closely coordinated with the County of Orange, Environmental Health, Waste Management Section. This included our meeting at the referenced site on August 16, 1989 and your site visits on August 31 and September 11, 1989 during the final post-excavation sampling program.

In reference to the attached final report, we believe that this voluntary site remediation program has been successfully completed by Pennwalt. Upon your review of this final report, we trust and look forward to receiving a favorable written response from the Orange County, Waste Management Section confirming the Agency's approval/concurrence as to Pennwalt's successful conclusion of this project.

Mr. Gary Zimmerman
December 26, 1989
Page 2

We take this opportunity to acknowledge the fine cooperation and guidance which you have provided during the execution of field activities particularly during the final post-excavation sampling program and your prompt evaluation of the final results. This cooperative effort, we believe was very helpful in completing this remediation project in an effective, well coordinated and expeditious manner.

Very truly yours,

Samuel B. Balamoun

Samuel B. Balamoun
Manager
Environmental Engineering

SBB/me

cc: Mr. Fred Gaggioli (without enclosure)
Supervisor of Hazardous
Waste Specialists

bcc: (with enclosure) D86, J18/S49, M167,
S47, T40/File
(without enclosure) R43, U7



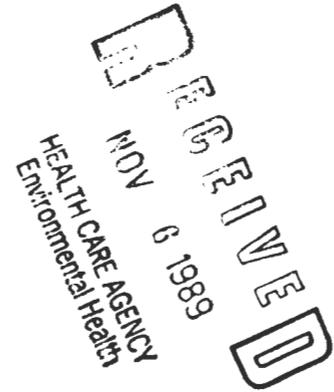
900 First Avenue, P. O. Box 1536, King of Prussia, Pennsylvania 19406-0018 • (215) 337-6500

October 31, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gary Zimmerman
County of Orange
Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

Subject: Pennwalt Corporation
Former Chemical Specialties Plant
630 N. Batavia Street
Orange, California
Soil Removal/Clean-up Project



Dear Mr. Zimmerman:

Enclosed is a replacement package regarding the subject matter which includes two drawings marked Figures 7 and 8 which depict the final post-excavation sample locations/results. The attached drawings include a revised "Figure 8" dated October 30, 1989.

I plan to call you during the week of December 6 to confirm your receipt of this information and address any questions or comments you may have.

Very truly yours,

Samuel B. Balamoun

Samuel B. Balamoun
Manager
Environmental Engineering

SBB/ajd

CC: (with enclosures) Mr. Fred Gaggioli
Supervisor of Hazardous
Waste Specialists



900 First Avenue, P. O. Box 1536, King of Prussia, Pennsylvania 19406-0018 • (215) 337-6500

October 30, 1989

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Mr. Gary Zimmerman
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Health Care Agency
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Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

Subject: Pennwalt Corporation
Former Chemical Specialties Plant
630 N. Batavia Street
Orange, California
Soil Removal/Clean-up Project

Dear Mr. Zimmerman:

This will confirm our telephone conversation on September 15 during which we discussed the results of the post-excavation soil samples at the referenced site. The last post-excavation sampling event occurred during your visit to the site on September 11 where one sample was collected at the existing tank farm area and the other sample was collected south of the excavated area of the pipe trench near the warehouse and office building.

We appreciated your prompt review of the results of the final post-excavation samples at the referenced site, and advising us that the soil removal/clean-up program has been successfully completed by Pennwalt to the satisfaction of your Department. We trust that written confirmation of this understanding will be issued to Pennwalt by Orange County upon submittal of these final post-excavation sampling results.

As agreed, enclosed for your information are two (2) figures which depict the locations and the analytical results of the final post-excavation samples which were collected at the site in conjunction with this soil removal/clean-up program. In this regard, it should be emphasized that the overall post-excavation soil sampling program was closely coordinated with the Orange County Health Department during your several site visits and telephone conversations. During our meeting at the referenced site on August 16, 1989, it was established that the parameters of interest relevant to the post-excavation samples are Total Petroleum Hydrocarbons (TPH) and Polychlorinated Biphenyls (PCBs) which were detected in a localized area at the site. This conclusion was based upon review of the site Assessment Report of July 1989 and discussion regarding the site history, including

the type of manufacturing activities conducted at the site.

Upon receiving your oral approval during our telephone conversation on September 15, we have completed backfilling the excavated area with clean soil along with compacting, grading and providing an asphalt cover of this area. This work was completed during the week of October 2. The excavated material has been characterized as appropriate, manifested and was disposed off-site at an authorized waste management facility.

Currently, we are in the process of preparing a final report on this project in coordination with our Contractor, ENSR, Inc. We plan to submit, by November 15, 1989, to your office a copy of the final report which will provide additional information regarding the soil removal/clean-up activities under this project including copies of the manifest documents and the analytical reports.

As discussed during our telephone conversation on September 15, upon your review of the attached post-excavation sampling results, we look forward to receiving a favorable written response from the Orange County Health Department confirming the Agency's approval/concurrence as to the successful conclusion of this remediation project.

We take this opportunity to acknowledge the fine cooperation and guidance which you have provided during field activities particularly regarding the post-excavation sampling program. Such effort, we believe enabled Pennwalt to complete the field activities in an effective and expeditious manner.

Very truly yours,

Samuel B. Balamoun

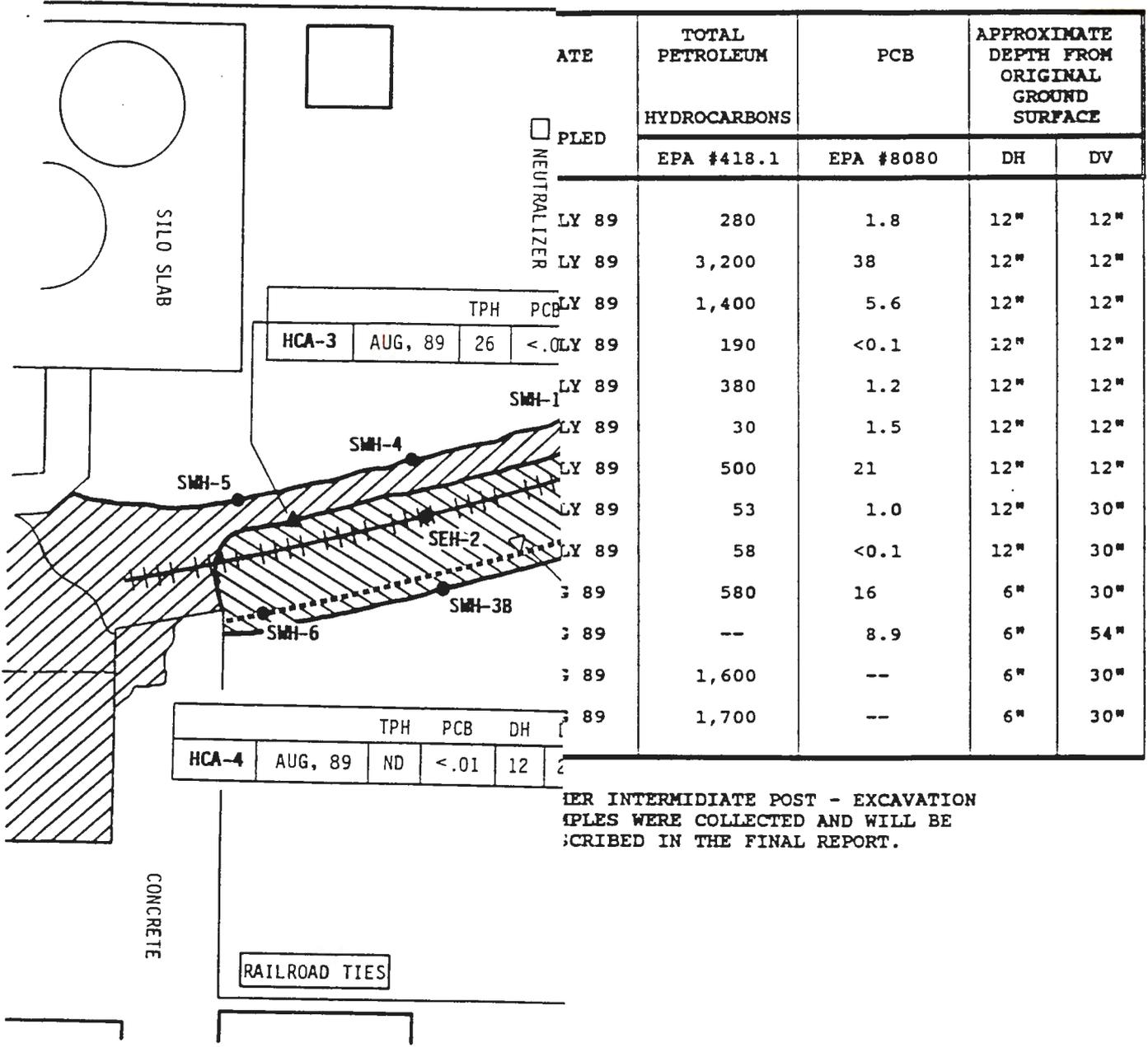
Samuel B. Balamoun
Manager
Environmental Engineering

SBB/ajd
Enclosures

CC: (with enclosures) Mr. Fred Gaggioli
Supervisor of Hazardous
Waste Specialists

BCC: (with enclosures) D86, J18/S49, M167, S47, T40/file, U7

WAREHOUSE



DATE	TOTAL	PCB	APPROXIMATE	
	PETROLEUM		DEPTH FROM ORIGINAL GROUND SURFACE	
	HYDROCARBONS	EPA #418.1	EPA #8080	DH
LY 89	280	1.8	12"	12"
LY 89	3,200	38	12"	12"
LY 89	1,400	5.6	12"	12"
LY 89	190	<0.1	12"	12"
LY 89	380	1.2	12"	12"
LY 89	30	1.5	12"	12"
LY 89	500	21	12"	12"
LY 89	53	1.0	12"	30"
LY 89	58	<0.1	12"	30"
89	580	16	6"	30"
89	--	8.9	6"	54"
89	1,600	--	6"	30"
89	1,700	--	6"	30"

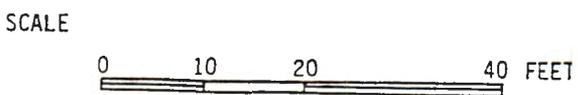
HCA-3	AUG, 89	26	<.01

HCA-4	AUG, 89	ND	<.01	12

INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.



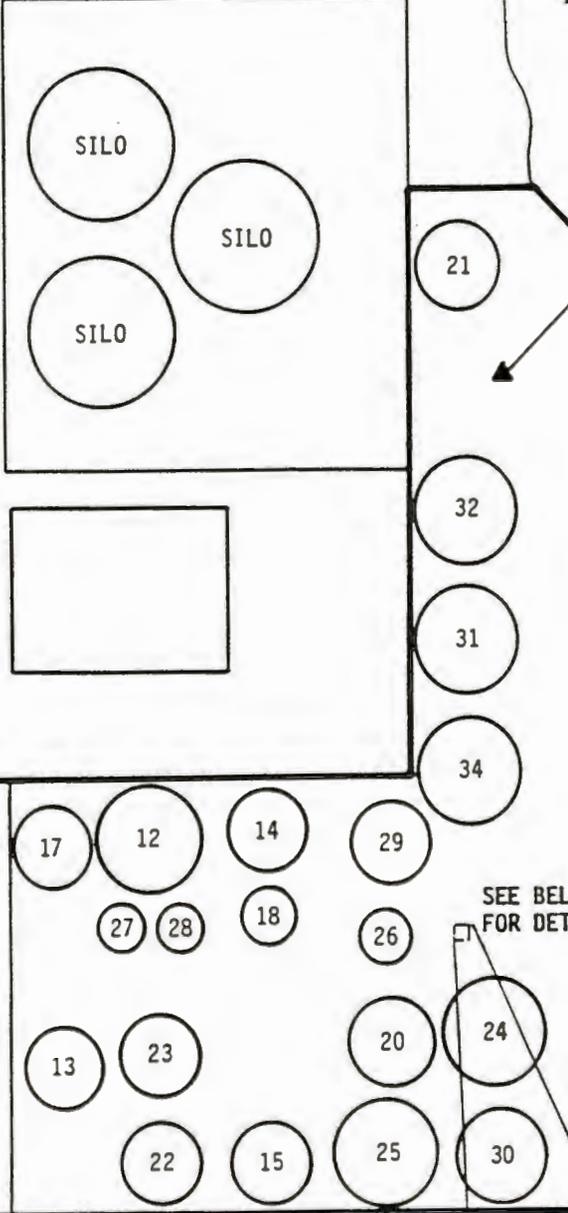
FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS



DRAWN BY: <i>BA</i>	DATE: 10/12/89	PROJECT NO.:
CHK'D BY:	REVISED: 10/27/89	DWG.NO.: FIGURE 7

C89-133-C20

WAREHOUSE



NOTE: FORMER TANK FARM (TANKS EMPTY & DECONTAMINATED)

EXCAVATED AREA
APPROX. 32' SQ. X 24' DEEP

	PCB	DV
TF2-C24	AUG, 89	0.74 24

SEE BELOW FOR DETAIL

E	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE
		EPA #418.1	
	JUNE 89	342	48"
	JUNE 89	575	84"
	JUNE 89	230	48"
	JUNE 89	240	48"
	JUNE 89	205	48"
	JUNE 89	ND	48"
	JUNE 89	ND	48"
	JUNE 89	ND	48"
	JUNE 89	ND	48"
	JUNE 89	ND	48"
	JUNE 89	19.7	204"
	JUNE 89	ND	96"
	JUNE 89	ND	96"

OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCE (PPM)	DEPTH (INCHES)

REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
B.P. BISHOP CORP., GENERAL CONTRACTOR,
FEBRUARY 7, 1988



FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>AM/BB</i>	DATE: <i>9/26/89</i>	PROJECT NO.:
CHK'D BY:	REVISED: <i>10/30/89</i>	DWG. NO.: FIGURE 8



900 First Avenue, P. O. Box 1536, King of Prussia, Pennsylvania 19406-0018 • (215) 337-6500

October 31 1989

HEALTH CARE AGENCY
Environmental Health

NOV 6 1989

RECEIVED

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gary Zimmerman
County of Orange
Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

Subject: Pennwalt Corporation
Former Chemical Specialties Plant
630 N. Batavia Street
Orange, California
Soil Removal/Clean-up Project

Dear Mr. Zimmerman:

Enclosed is a replacement package regarding the subject matter which includes two drawings marked Figures 7 and 8 which depict the final post-excavation sample locations/results. The attached drawings include a revised "Figure 8" dated October 30, 1989.

I plan to call you during the week of December 6 to confirm your receipt of this information and address any questions or comments you may have.

Very truly yours,

Samuel B. Balamoun

Samuel B. Balamoun
Manager
Environmental Engineering

SBB/ajd

CC: (with enclosures) Mr. Fred Gaggioli
Supervisor of Hazardous
Waste Specialists



900 First Avenue, P. O. Box 1536, King of Prussia, Pennsylvania 19406-0018 • (215) 337-6500

October 30, 1989

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RETURN RECEIPT REQUESTED

Mr. Gary Zimmerman
County of Orange
Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

Subject: Pennwalt Corporation
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630 N. Batavia Street
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We appreciated your prompt review of the results of the final post-excavation samples at the referenced site, and advising us that the soil removal/clean-up program has been successfully completed by Pennwalt to the satisfaction of your Department. We trust that written confirmation of this understanding will be issued to Pennwalt by Orange County upon submittal of these final post-excavation sampling results.

As agreed, enclosed for your information are two (2) figures which depict the locations and the analytical results of the final post-excavation samples which were collected at the site in conjunction with this soil removal/clean-up program. In this regard, it should be emphasized that the overall post-excavation soil sampling program was closely coordinated with the Orange County Health Department during your several site visits and telephone conversations. During our meeting at the referenced site on August 16, 1989, it was established that the parameters of interest relevant to the post-excavation samples are Total Petroleum Hydrocarbons (TPH) and Polychlorinated Biphenyls (PCBs) which were detected in a localized area at the site. This conclusion was based upon review of the site Assessment Report of July 1989 and discussion regarding the site history, including

October 30, 1989

the type of manufacturing activities conducted at the site.

Upon receiving your oral approval during our telephone conversation on September 15, we have completed backfilling the excavated area with clean soil along with compacting, grading and providing an asphalt cover of this area. This work was completed during the week of October 2. The excavated material has been characterized as appropriate, manifested and was disposed off-site at an authorized waste management facility.

Currently, we are in the process of preparing a final report on this project in coordination with our Contractor, ENSR, Inc. We plan to submit, by November 15, 1989, to your office a copy of the final report which will provide additional information regarding the soil removal/clean-up activities under this project including copies of the manifest documents and the analytical reports.

As discussed during our telephone conversation on September 15, upon your review of the attached post-excavation sampling results, we look forward to receiving a favorable written response from the Orange County Health Department confirming the Agency's approval/concurrence as to the successful conclusion of this remediation project.

We take this opportunity to acknowledge the fine cooperation and guidance which you have provided during field activities particularly regarding the post-excavation sampling program. Such effort, we believe enabled Pennwalt to complete the field activities in an effective and expeditious manner.

Very truly yours,

Samuel B. Balamoun

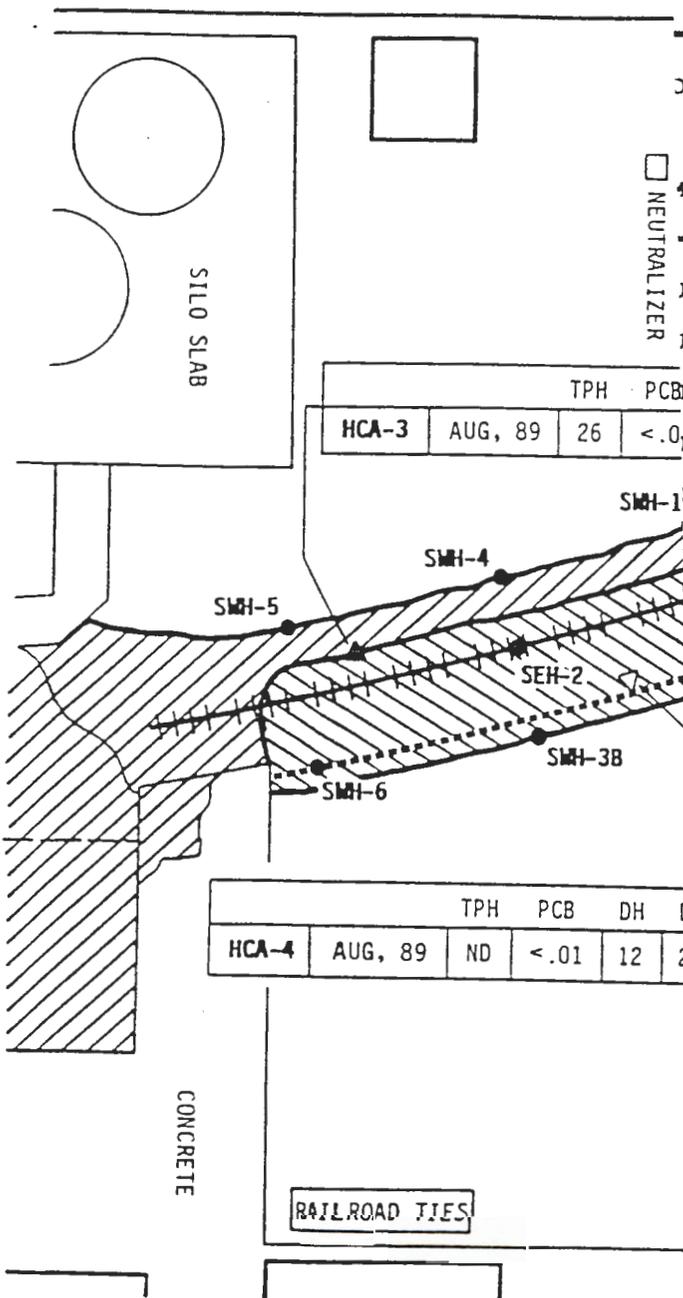
Samuel B. Balamoun
Manager
Environmental Engineering

SBB/ajd
Enclosures

CC: (with enclosures) Mr. Fred Gaggioli
Supervisor of Hazardous
Waste Specialists

BCC: (with enclosures) D86, J18/S49, M167, S47, T40/file, U7

WAREHOUSE



DATE	TOTAL	PCB	APPROXIMATE	
	PETROLEUM		DEPTH FROM	DEPTH FROM
SAMPLED	HYDROCARBONS	EPA #8080	ORIGINAL	ORIGINAL
	EPA #418.1		GROUND	SURFACE
			DH	DV
JULY 89	280	1.8	12"	12"
JULY 89	3,200	38	12"	12"
JULY 89	1,400	5.6	12"	12"
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AUG 89	--	8.9	6"	54"
AUG 89	1,600	--	6"	30"
AUG 89	1,700	--	6"	30"

	TPH	PCB	DH	DV
HCA-3	AUG, 89	26	<.01	

	TPH	PCB	DH	DV
HCA-4	AUG, 89	ND	<.01	12

OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.

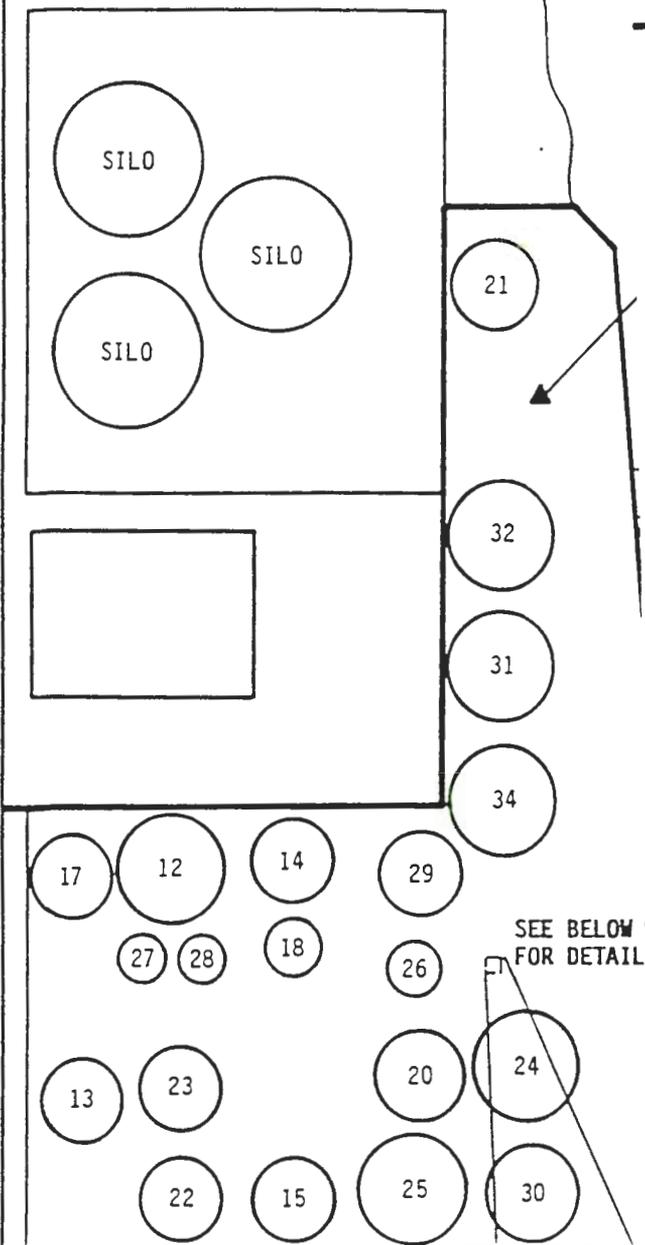


FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>SM</i>	DATE: 10/12/89	PROJECT NO.:
CHK'D BY:	REVISED: 10/27/89	DWG. NO.: FIGURE 7

WAREHOUSE



NOTE: FORMER TANK FARM (TANKS EMPTY & DECONTAMINATED)

EXCAVATED AREA
APPROX. 32' SQ. X 24' DEEP

	PCB	DV
TFZ-C24	AUG, 89	0.74 24

SEE BELOW FOR DETAIL

E	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE
		EPA #418.1	
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	JUNE 89	575	24"
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SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCE (PPM)	DEPTH (INCHES)

REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
B.P. BISHOP CORP., GENERAL CONTRACTOR,
FEBRUARY 7, 1988



FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>BML/AS</i>	DATE: <i>9/26/89</i>	PROJECT NO:
CHK'D BY:	REVISED: <i>10/30/89</i>	DWG. NO: FIGURE



900 First Avenue, P. O. Box 1536, King of Prussia, Pennsylvania 19406-0018 • (215) 337-6500

October 30, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gary Zimmerman
County of Orange
Health Care Agency
Environmental Health
Waste Management Section
P. O. Box 355
Santa Ana, CA 92702

Rec'd 11-3-89

Subject: Pennwalt Corporation
Former Chemical Specialties Plant
630 N. Batavia Street
Orange, California
Soil Removal/Clean-up Project

Dear Mr. Zimmerman:

This will confirm our telephone conversation on September 15 during which we discussed the results of the post-excavation soil samples at the referenced site. The last post-excavation sampling event occurred during your visit to the site on September 11 where one sample was collected at the existing tank farm area and the other sample was collected south of the excavated area of the pipe trench near the warehouse and office building.

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October 30, 1989

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Very truly yours,

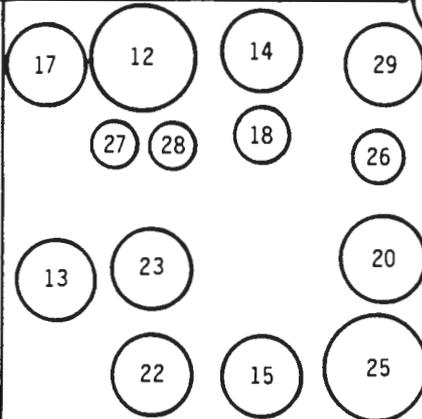
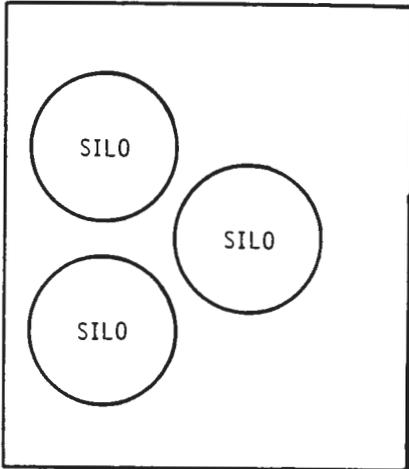
Samuel B. Balamoun

Samuel B. Balamoun
Manager
Environmental Engineering

SBB/ajd
Enclosures

CC: (with enclosures) Mr. Fred Gaggioli
Supervisor of Hazardous
Waste Specialists

WAREHOUSE



NOTE: FORMER TANK FARM (TANKS EMPTY & DECONTAMINATED)

EXCAVATED AREA
APPROX. 32' SQ. X 24' DEEP

	PCB	DV
TF2-C24	AUG, 89	0.74 24

DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE
	EPA #418.1	
JUNE 89	342	48"
JUNE 89	575	84"
JUNE 89	230	48"
JUNE 89	240	48"
JUNE 89	205	48"
JUNE 89	ND	48"
JUNE 89	19.7	204"
JUNE 89	ND	96"
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ER INTERMEDIATE POST - EXCAVATION
PLES WERE COLLECTED AND WILL BE
CRIBED IN THE FINAL REPORT.

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

ERENCE: PENWALT CORP., ORANGE, CALIFORNIA
B.P. BISHOP CORP., GENERAL CONTRACTOR,
FEBRUARY 7, 1988

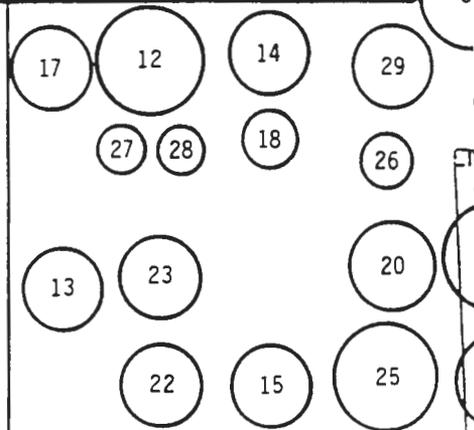
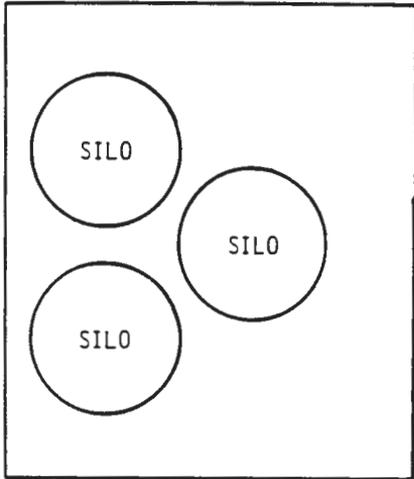


FINAL POST-EXCAVATION SAMPLE
LOCATIONS/RESULTS

C89-133-C20

BY: <i>BM/AB</i>	DATE: 9/26/89	PROJECT NO.:
BY:	REVISED: 10/13/89	DWG. NO.: FIGURE 8

WAREHOUSE



NOTE: FORMER TANK FARM (TANKS EMPTY & DECONTAMINATED)

EXCAVATED AREA
APPROX. 32' SQ. X 24' DEEP

	PCB	DV
TF2-C24	AUG, 89	0.74 24

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	EPA #418.1	
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SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
B.P. BISHOP CORP., GENERAL CONTRACTOR,
FEBRUARY 7, 1988

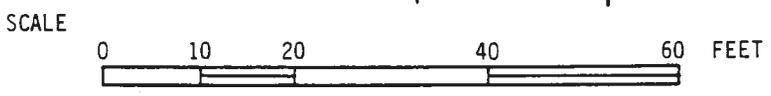
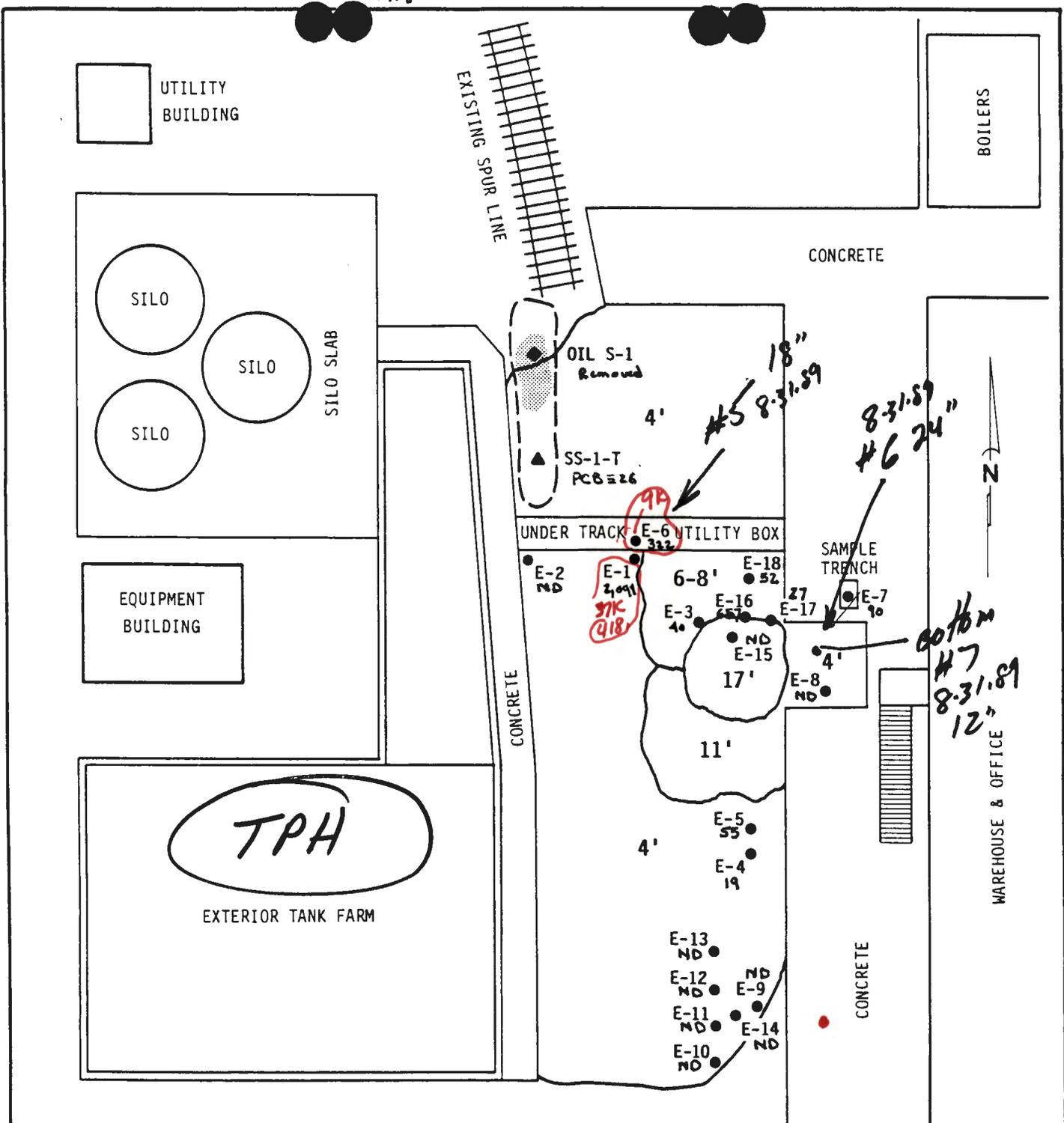
ENSRTM

FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

mg/kg.

PCB = mg/kg.



EXPLANATION

- 17' EXCAVATION AREA DEPTH
- E-18 EXCAVATION SAMPLE LOCATION
- SS-1-T SOIL SAMPLE LOCATION

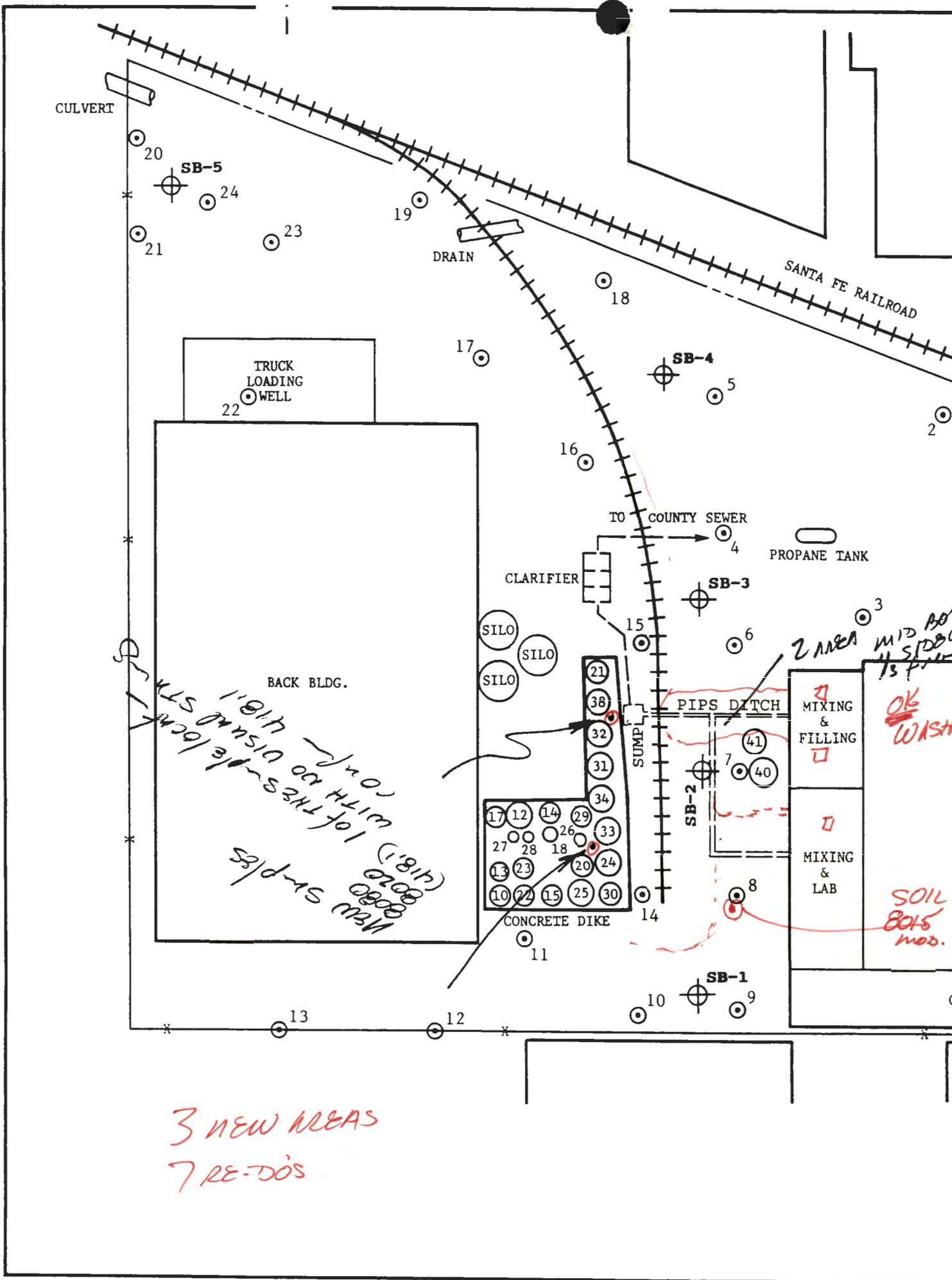
REFERENCE: PENNWALT CORP., ORANGE, CALIFORNIA,
 B.P. BISHOP CORP., GENERAL CONTRACTOR
 FEBRUARY 7, 1988

ENSR

EXCAVATION & SAMPLE LOCATIONS

C89-133-C20

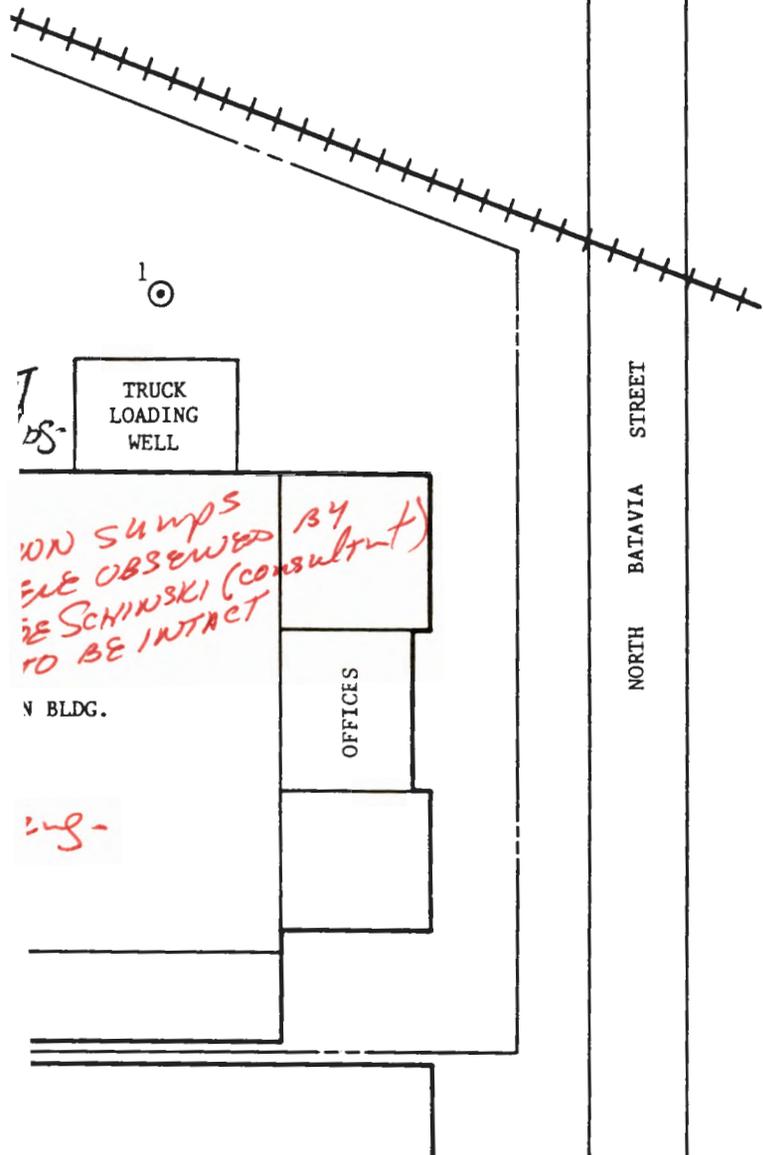
DRAWN BY: <i>AM</i>	DATE: <i>6/29/89</i>	PROJECT NO.:
CHK'D BY:	REVISED:	DWG. NO.: FIGURE 1



REMOVE REMAINING PIPE TRENCH
 SOILS TO NO VISUAL STAINING
 2 samples. 8080
 418.1

EXPLANATION

- ⊙₁ SOIL VAPOR SAMPLE LOCATION
- ⊕_{SB-1} SOIL BORING LOCATION



0 25 50 FEET
 SCALE (APPROX.)

ENSR

SITE PLAN
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

DRAWN BY: <i>AM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-202
CHK'D BY:	REVISED:	DWG. NO.: FIGURE 3



900 First Avenue, P. O. Box 1536, King of Prussia, Pennsylvania 19406-0018 • (215) 337-6500

CHEMICALS • EQUIPMENT • HEALTH PRODUCTS

Via: Federal Express

August 11, 1989

Mr. Gary Zimmerman
Orange County Health/Hazardous Waste
P. O. Box 355
Santa Ana, CA 92702

Subject: Penwalt Corporation
Former Chemical Specialties Plant
630 Batavia Street, Orange, CA
Site Assessment/Soil Removal Project

Dear Mr. Zimmerman:

This will confirm our telephone conversations on August 9 and today regarding our meeting which is scheduled to be held on August 16, 1989 at 9:00 A.M. at the referenced site. As discussed, the primary objectives of this meeting are to:

1. Respond to any questions you may have on the site assessment report which was submitted, on July 13, 1989 to Orange County, Waste Management Section,
2. Conduct a field inspection and review the current status of the soil removal activities at the site,
3. Review typical manifest documents regarding the disposal of excavated soil, off-site, at an authorized waste management facility,
4. Identify the locations of post excavation samples which will confirm soil condition at the conclusion of the soil excavation work to complete this project, and
5. Establish appropriate, site-specific, final action levels for the parameters of interest which will be utilized to evaluate and finalize the results of the post excavation samples at the conclusion of this project.

We look forward to a productive meeting and maintaining a cooperative effort with Orange County toward a successful and expeditious conclusion of this project. Your cooperation in achieving this objective will be appreciated.

Very truly yours,

Samuel B. Balamoun

Samuel B. Balamoun
Manager
Environmental Engineering



Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

ENSR Constructors
19782 MacArthur Blvd., Suite 365
Irvine, CA 92715

Date Sampled: 07/18/89
Date Received: 07/18/89
Date Analyzed: 07/24/89
Date Reported: 07/24/89

Attention: Richard Evans

Project: C89133-002, Pennwalt

*TPH
418.1*

Analysis: Total Recoverable Petroleum Hydrocarbons:
Soil Samples

<u>Sample Description</u>	<u>Sample Number</u>	<u>Detection Limits</u> ppm	<u>Sample Results</u> ppm
SWK-1	9070472	5	21
SWH-1	9070473	5	280
SWH-2	9070474	5	8300 → ✓
SWH-3	9070475	5	49000 → ✓
SWH-4	9070476	5	3200 → ✓
SWH-5	9070477	5	1400 → ✓
SWH-6	9070478	5	190

N.D. - None Detected above stated Detection Limit

This analysis was performed by extracting the sample with Freon 113 and using EPA method 418.1 for hydrocarbon detection (IR absorbtion).

Del Mar Analytical

Gary Steube
Gary Steube
Laboratory Director



Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

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Date Analyzed: 07/24/89
Date Reported: 07/24/89

Attention: Richard Evans

Project: C89133-002, Pennwalt

418.1
TPH

Analysis: Total Recoverable Petroleum Hydrocarbons:
Soil Samples

<u>Sample Description</u>	<u>Sample Number</u>	<u>Detection Limits</u> ppm	<u>Sample Results</u> ppm
SEH-1	9070479	5	4700 → ✓
SEH-2	9070480	5	53
SEH-3	9070481	5	7400 → ✓
SEP-1	9070482	5	18000 → ✓
SWJ-1	9070483	5	380 ✓
SWJ-2	9070484	5	30 ✓
SWJ-3	9070485	5	6800 →
SWJ-4	9070486	5	500 →
SEJ-1	9070487	5	58 ✓
SEJ-2	9070488	5	550 →

N.D. - None Detected above stated Detection Limit

This analysis was performed by extracting the sample with Freon 113 and using EPA method 418.1 for hydrocarbon detection (IR absorbtion).

Del Mar Analytical


Gary Steube
Laboratory Director



CHEMICALS • EQUIPMENT • HEALTH PRODUCTS

900 First Avenue, P. O. Box 1536, King of Prussia, Pennsylvania 19406-0018 • (215) 337-6500

Via Federal Express

July 13, 1989

Mr. James Wells
County of Orange
Health Care Agency
Environmental Waste Management Section
1719 17th Street
Santa Ana, California 92706

Re: Pennwalt Corporation
Chemical Specialties Division
630 North Batavia Street
Orange, California
Site Assessment Report

RECEIVED
JUL 14 1989

HEALTH CARE AGENCY
Environmental Health

Dear Mr. Wells:

In accordance with our telephone conversation on July 12, enclosed is one copy of the site assessment report for the referenced site which was conducted by ENSR Consulting and Engineering (formerly ERT). This report reflects conditions at the site as of termination of manufacturing operations in April, 1989.

As advised, Pennwalt is currently undertaken a voluntary remediation of soil conditions at a confined area on the site which was identified as a result of the site assessment. We plan to continue to keep you advised of significant progress regarding this project and look forward to working cooperatively with the County of Orange and your Department toward a successful conclusion of this project.

If you have any questions or comments regarding the enclosed report, please contact me at (215) 337-6810.

Very truly yours,

Samuel B. Balamoun

Samuel B. Balamoun
Manager
Environmental Engineering

SBB/me
Enclosure

cc: Mr. Richard Denney



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

CLIENT

ERT
19782 MacArthur Blvd.
Suite 365
Irvine, CA 92715
Attn: Charles Keller

(2013)

LAB NO. F45427
REPORTED 03/10/88

SAMPLE

Liquid & Soil

RECEIVED 02/25/88

IDENTIFICATION

Pennwalt - Project #G812

BASED ON SAMPLE

As Submitted

Soil SB-1-35 ? *HOW MANY* Soil SB-2-5 *SB-1 where*

Hydrocarbons (418.1)

ND<10 mg/kg

617 mg/kg

Purgeable Organics EPA 8240:

* ND

* ND

* All compounds were None Detected. See attached list.

Liquid
SB-2-1.5

Hydrocarbons (418.1)

74.36%

Total Hydrocarbons (8015)

25.3 %

PCB's (Aroclor 1242) *method? 2080*

38 ppm

Infrared

See attached

Purgeable Organics EPA 624:

2-Butanone

20.6 ppm

All other compounds were None Detected.
See attached list.

ASSOCIATED LABORATORIES

Edward S. Behare
Edward S. Behare, Ph.D.

ESB/ql

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TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-8900

CLIENT

ERT
19782 MacArthur Blvd.
Suite 365
Irvine, CA 92715

(2013)

LAB NO.

F45497

REPORTED

03/10/88

SAMPLE

Soil

RECEIVED

02/25/88

IDENTIFICATION

Pennwalt, Orange, Proj. #G812

BASED ON SAMPLE

As Submitted

Purgeable Organics
EPA Method 8240

SB-3-5

* None Detected

SB-4-5

* None Detected

SB-5-5

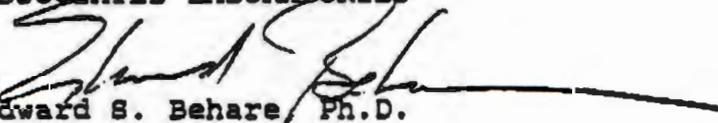
* None Detected

SB-1-10

* None Detected

* All compounds were None Detected. See attached list.

ASSOCIATED LABORATORIES


Edward S. Behare, Ph.D.

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •

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LITHOLOGIC LOG AND CONSTRUCTION

CLIENT _____

DRILLING AND SAMPLING INFORMATION

PROJECT NAME PENWALT ORANGE PLANTDATE STARTED 2/25/88 DATE COMPLETED 2/25/88

PROJECT LOCATION _____

DRILLED BY A & R DRILLING DRILLER MARKJOB NO. G812-201 BORING NO. MW-1 (SB-1)METHOD HOLLOW STEM AUGER TOTAL DEPTH 66 FEETLOGGED BY M. GANDER M. WOODBOREHOLE SIZE 8 - INCHES DRILLING EQUIPMENT CME-75APPROVED BY C. KELLER R. RICHTER

WELL COMPLETION INFORMATION

BORING LOCATION SOUTH CENTRAL PORTION OF SITE

SCREEN DIA. _____ LENGTH _____

ELEVATION AND DATUM 166 FEET, USGS 7.5' ORANGE, CA

SLOT SIZE _____ TYPE _____

CASING DIA. _____ LENGTH _____

DEPTH (feet)	DESCRIPTION	SAMPLES					GRAPHIC LOG		REMARKS
		BLOW COUNT (blows/foot)	DRILLING (rate/time)	NUMBER	TYPE	AMBIENT HEADSPACE	LITHOLOGY	WELL COMPLETION	
	SPUD AT 8:50 AM								
	CONCRETE, 4 INCHES OF CEMENT CONCRETE		8:50				CC		SLOW DRILLING THROUGH CONCRETE
5	"ALLUVIUM (Qa1)" SILTY CLAY (CL) RED TO BROWN, MOIST, FIRM, SLIGHTLY PLASTIC, STICKY	8	9:16	5	S		Qa1 CL		140 LB HAMMER 30 INCH STROKE AMBIENT AIR OVA = 2.2 PPM
10	BECOMES CLAYEY SILT (ML) RED TO BROWN, DAMP, MEDIUM FIRM, NONPLASTIC, TRACE SAND VERY FINE GRAINED	11	9:26	10	S		ML		AMBIENT AIR OVA = 1 PPM
15	BECOMES MOIST	28	9:39	15	S				
20	"ALLUVIUM (Qa1)" SILTY GRAVEL (GC) BROWN, DAMP, DENSE, GRAVEL COARSE TO FINE, SUBANGULAR TO SUBROUNDED, SAND COARSE TO MEDIUM GRAINED	32	9:54	20	S		Qa1 GC		SLOW DRILLING- COBBLES AND GRAVEL AMBIENT AIR OVA ≤ 1.5 PPM
25	BECOMES SANDY GRAVEL (GM/GP) BROWN, DRY TO DAMP, DENSE	46	10:15	25	S		GM GP		SLOW DRILLING
30		57	10:35	30	S				

LITHOLOGIC LOG AND CONSTRUCTION

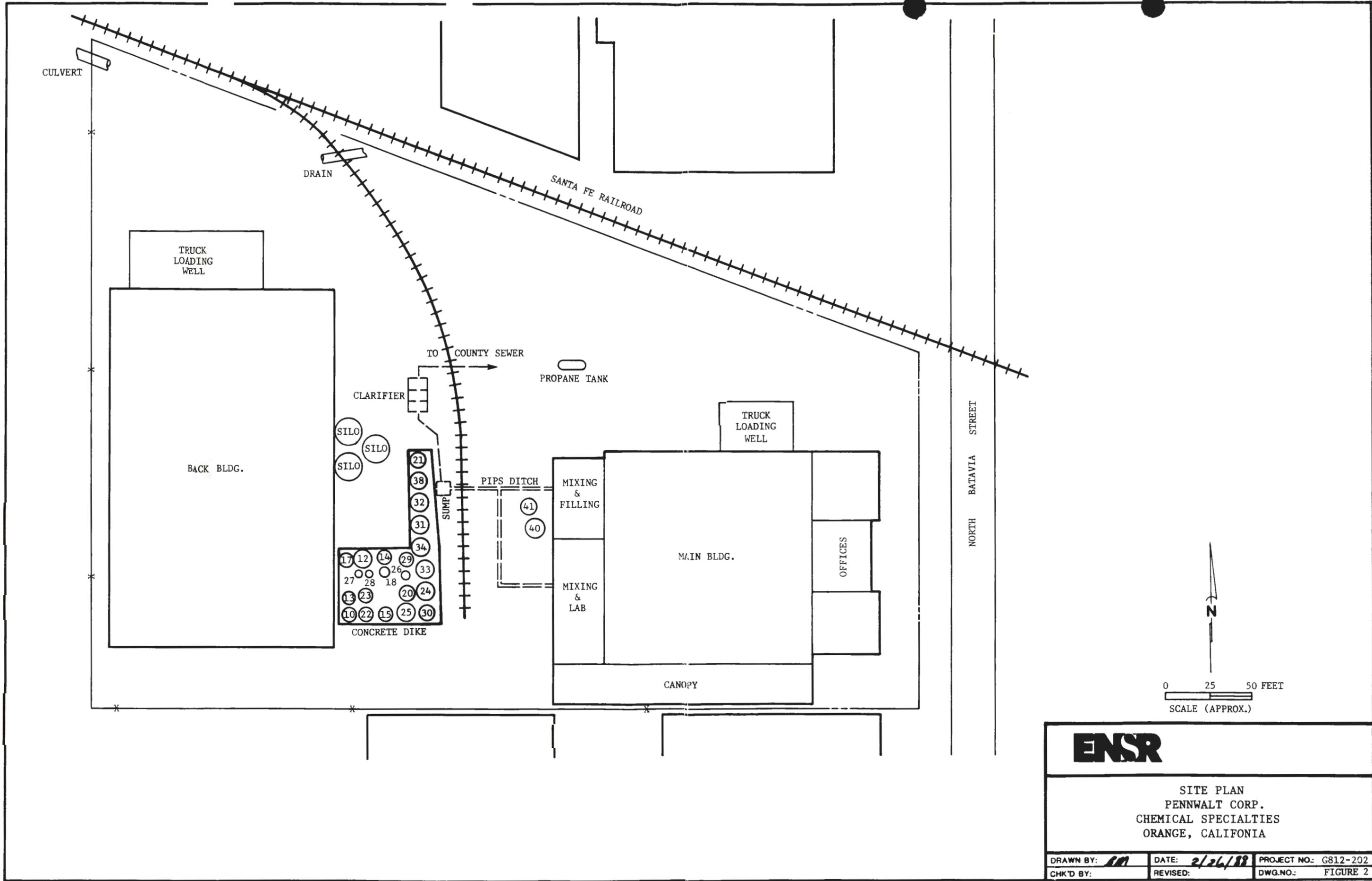
PROJECT NAME PENWALT ORANGE PLANT LOGGED BY M. GANDER APPROVED BY R. RICHTER
M. WOOD C. KELLER
 JOB NO. G812-201 ELEVATION AND DATUM 166 FEET, USGS 7.5' ORANGE, CA
 BORING NO. MW-1 (SB-1)

DEPTH (feet)	DESCRIPTION	SAMPLES					GRAPHIC LOG		REMARKS
		BLOW COUNT (blows/foot)	DRILLING (rate/time)	NUMBER	TYPE	AMBIENT HEADSPACE	LITHOLOGY	WELL COMPLETION	
	CONTINUED SANDY GRAVEL (GM/GP)		10:35				GM/GP		
35	"ALLUVIUM (Qa1)" SILTY SAND (SM) BROWN, DAMP, LOOSE POORLY GRADED	7	10:45	35	S	1.4	Qa1 SM		
40	"ALLUVIUM (Qa1)" GRAVELLEY CLAY (GC) BROWN, MOIST, MEDIUM FIRM, SLIGHTLY PLASTIC, GRAVEL COARSE TO FINE, SUBROUNDED	9	10:55	40	S	1.2	Qa1 GC		AMBIENT AIR OVA ≤ 1.5 PPM
45	"ALLUVIUM (Qa1)" SANDY GRAVEL (GP) BROWN, MOIST, VERY DENSE, GRAVEL FINE TO COARSE, SUBANGULAR TO SUBROUNDED, SAND COARSE TO FINE GRAINED, WELL GRADED	50 FOR 5"	11:13	45	S		Qa1 GP		SLOW DRILLING
50		39	11:35	50	S				
55	CONTINUED SANDY GRAVEL (GP/GM) WITH AN INCREASE IN FINES WITH THIN SILT LAMINAE (LENSES)	33	12:03				GP/GM		
60	LENSE OF "PEA GRAVEL" ROUNDED, POORLY GRADED	33	12:20	60	S				AMBIENT AIR OVA ≤ 1.5 PPM
65	"ALLUVIUM (Qa1)" SILTY SAND (SM) BROWN, MOIST, DENSE, POORLY GRADED, SAND MEDIUM TO FINE GRAINED	41	1:20	65	S		Qa1 SM		BREAK IN DRILLING

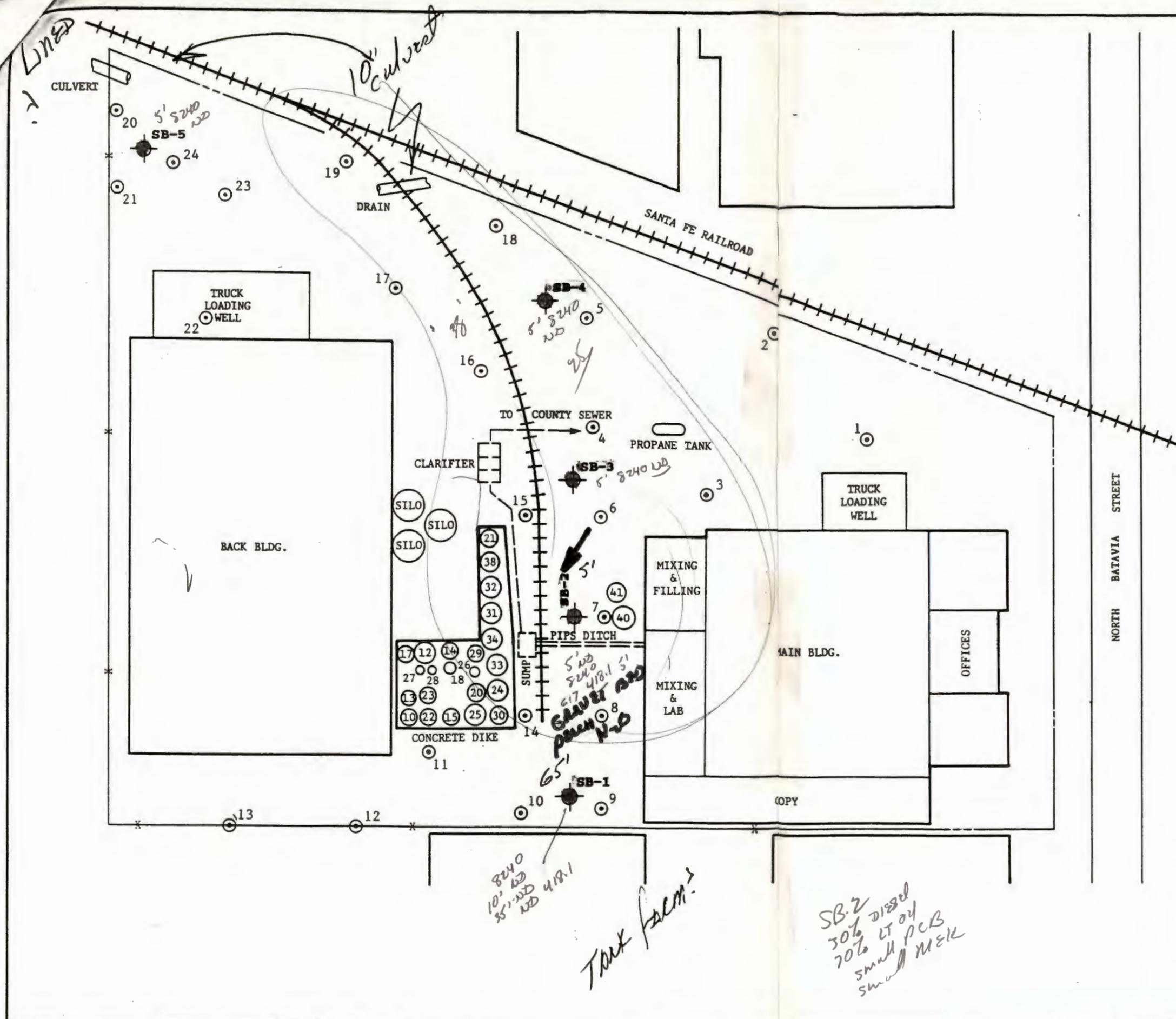
2.25.88

PENNWALT: FEB 23, 1988

<u>Sample</u>	<u>Total</u>	<u>Air (MVS)</u>	<u>Net (MVS)</u>
1	3808	211	3597
1 (repeat)	4327	211	4116
2	4329	165	4164
3	1961	132	1829
4	6414	43	6371
5	4830	291	4539
6	4128	222	3906
7	8745	131	8614
8			*Significant soil moisture
9	8795	84	8711
10	15073	285	14788
11	16782	713	16069
11 (repeat)	7038	713	6325
12	4656	275	4381
13	9414	232	9182
14	43853	353	43500
15	15176	203	14973 *used second "air" reading
16	458	894	-436
16 (repeat)	278	894	-616
17	9565	15	9550
18	7836	13	7823 *used second "air" reading
19	30875	469	30406
20	18080	351	17729
21	126	502	-376
21 (repeat)	6	502	-496
22	111	78	33
23	7238	41	7197
24	3365	200	3165

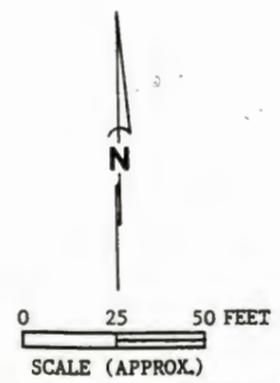


ENSR		
SITE PLAN PENNWALT CORP. CHEMICAL SPECIALTIES ORANGE, CALIFORNIA		
DRAWN BY: <i>AM</i> CHK'D BY:	DATE: <i>2/26/88</i> REVISED:	PROJECT NO.: G812-202 DWG. NO.: FIGURE 2



EXPLANATION

- ⊙₁ SOIL VAPOR SAMPLE LOCATION
- ⊕_{SB-1} SOIL BORING LOCATION



ENSR

SITE PLAN
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

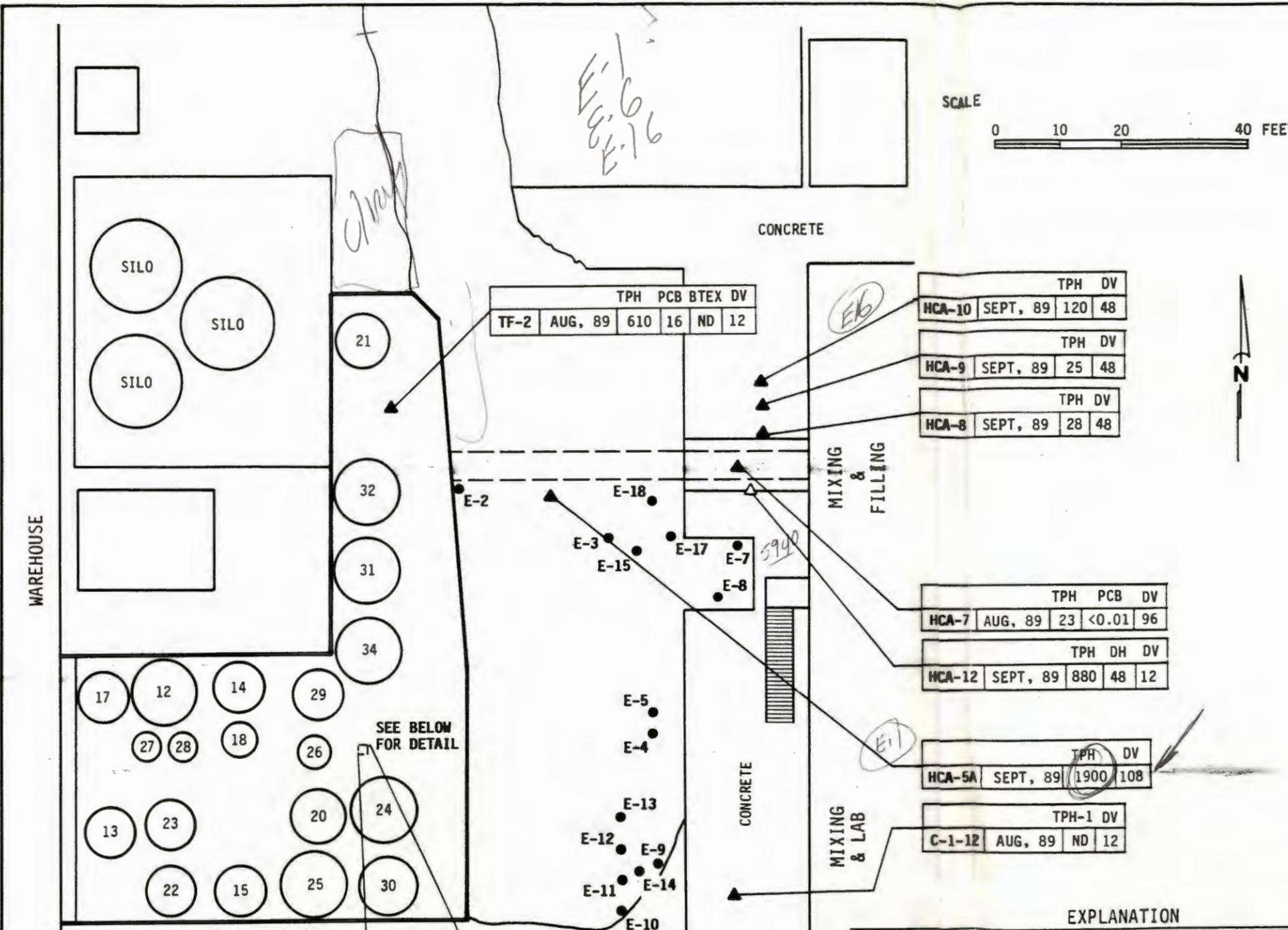
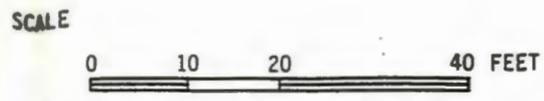
DRAWN BY: <i>AM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-202
CHK'D BY:	REVISED:	DWG. NO.: FIGURE 3

*8240
10' ND
5' ND
ND 418.1*

Tank farm

*SB-2
30% diesel
70% LT oil
small PCB
small MEK*

*E-1
E-6
E-7
E-16*



SAMPLE NAME	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE
		EPA #418.1	
E-2	JUNE 89	342	48"
E-3	JUNE 89	575	84"
E-4	JUNE 89	230	48"
E-5	JUNE 89	240	48"
E-8	JUNE 89	205	48"
E-9	JUNE 89	ND	48"
E-10	JUNE 89	ND	48"
E-11	JUNE 89	ND	48"
E-12	JUNE 89	ND	48"
E-13	JUNE 89	ND	48"
E-14	JUNE 89	ND	48"
E-15	JUNE 89	19.7	204"
E-17	JUNE 89	ND	96"
E-18	JUNE 89	ND	96"

NOTE: OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

NOTE: FORMER TANK FARM (TANKS EMPTY & DECONTAMINATED)

EXCAVATED AREA
APPROX. 32' SQ. X 24' DEEP

		PCB	DV
TF2-A24	AUG, 89	0.44	24
HCA-11-A	SEPT, 89	1.8	24
TF2-B24	AUG, 89	0.47	24
TF2-C24	AUG, 89	0.74	24

EXPLANATION

- E ADDITIONAL POST EXCAVATION SOIL SAMPLE-BOTTOM
- ▲ FINAL POST EXCAVATION SOIL SAMPLE-BOTTOM. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- △ FINAL POST EXCAVATION SOIL SAMPLE-SIDE WALL. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- DH DEPTH-HORIZONTAL DV DEPTH-VERTICAL
- PCB EPA NO. 8080 ND NON DETECTABLE
- TPH TOTAL PETROLEUM HYDROCARBONS PER EPA 418.1
- TPH-1 TOTAL PETROLEUM HYDROCARBONS PER EPA 8015 MOD.
- BTEX EPA NO. 8020 & 5030

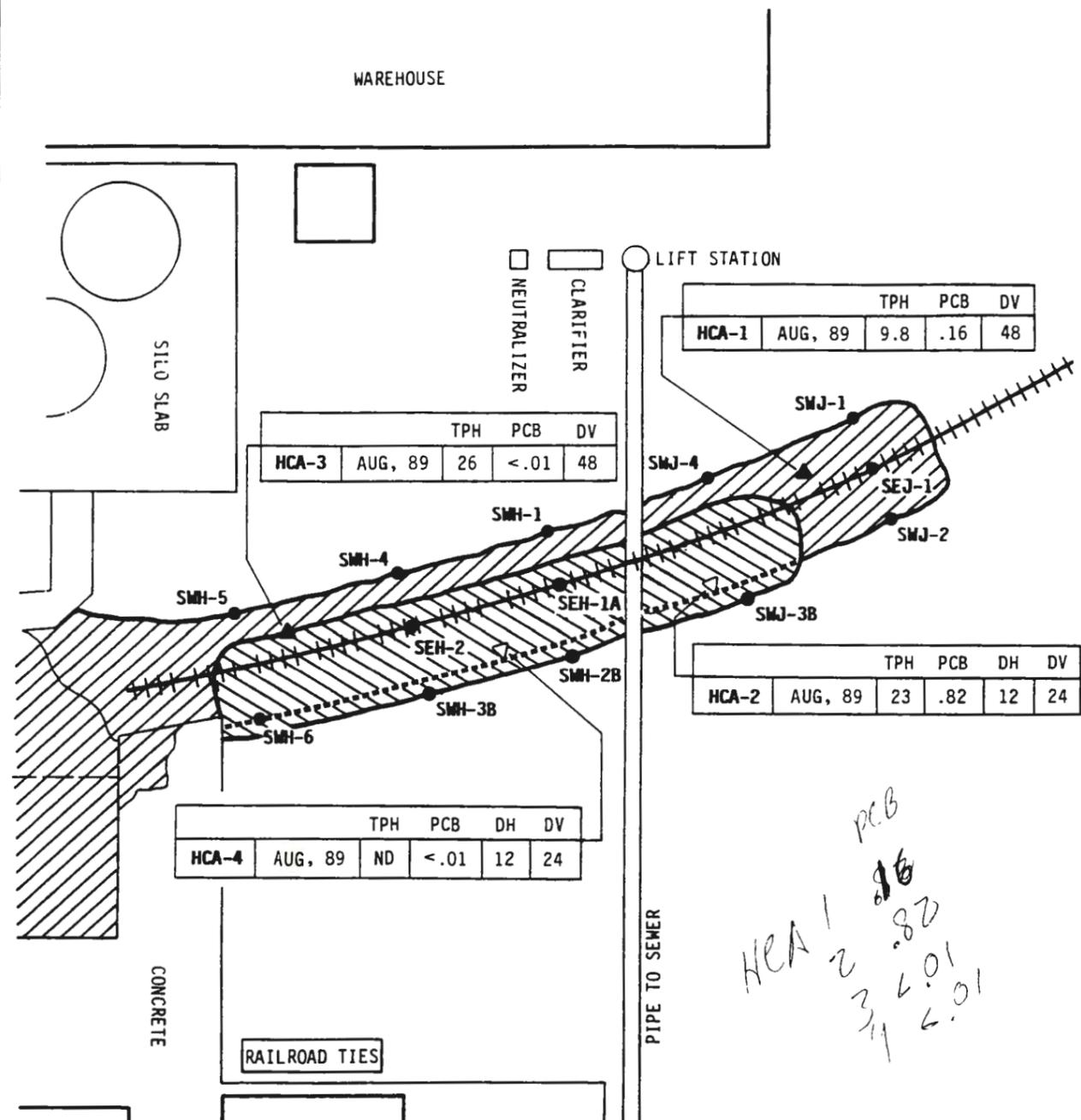
REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
B.P. BISHOP CORP., GENERAL CONTRACTOR,
FEBRUARY 7, 1988

ENSR™

FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>AM/AG</i>	DATE: <i>9/26/89</i>	PROJECT NO.:
CHK'D BY:	REVISED: <i>10/30/89</i>	DWG. NO.: FIGURE 1-4



EXPLANATION

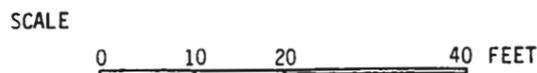
- FORMER RAILROAD TRACK LOCATION
- EXCAVATION & SAMPLE LOCATIONS
- SM ADDITIONAL POST EXCAVATION SIDE WALL SAMPLE
- SE ADDITIONAL POST EXCAVATION SOIL SAMPLE-BOTTOM
- ▲ FINAL POST EXCAVATION SOIL SAMPLE-BOTTOM. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- △ FINAL POST EXCAVATION SOIL SAMPLE-SIDE WALL. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- DH DEPTH-HORIZONTAL
- DV DEPTH-VERTICAL
- TPH TOTAL PETROLEUM HYDROCARBONS PER EPA 418.i
- PCB EPA NO. 8080
- BTEX EPA NO. 8020 & 5030
- TPH-1 TOTAL PETROLEUM HYDROCARBONS PER EPA 8015 MOD.
- ND NON DETECTABLE

Handwritten notes:
 HCA 1 PCB .82
 2 .82
 3 <.01
 4 <.01

SAMPLE NAME	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	PCB	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE	
		EPA #418.1	EPA #8080	DH	DV
SWH-1	JULY 89	280	1.8	12"	12"
SWH-4	JULY 89	3,200	38	12"	12"
SWH-5	JULY 89	1,400	5.6	12"	12"
SWH-6	JULY 89	190	<0.1	12"	12"
SWJ-1	JULY 89	380	1.2	12"	12"
SWJ-2	JULY 89	30	1.5	12"	12"
SWJ-4	JULY 89	500	21	12"	12"
SEH-2	JULY 89	53	1.0	12"	30"
SEJ-1	JULY 89	58	<0.1	12"	30"
SWJ-3B	AUG 89	580	16	6"	30"
SEH-1A	AUG 89	--	8.9	6"	54"
SWH-2B	AUG 89	1,600	--	6"	30"
SWH-3B	AUG 89	1,700	--	6"	30"

NOTE: OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)



REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
 B.P. BISHOP CORP., GENERAL CONTRACTOR,
 FEBRUARY 7, 1988

ENSR™

FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>SM</i>	DATE: 10/12/89	PROJECT NO.:
CHK'D BY:	REVISED: 10/30/89	DWG. NO.: FIGURE 1-3

**PENNWALT CORPORATION
CHEMICAL SPECIALTIES
DIVISION**

**630 NORTH BATAVIA
STREET
ORANGE, CALIFORNIA**



**SITE ASSESSMENT
REPORT**

Prepared for:

PENNWALT CORPORATION

Prepared by:

**ENSR Consulting and Engineering
(Formerly ERT)**

JULY 1989

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FIELD INVESTIGATIONS	10
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Soil Sampling	11
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Soil Borings and Sample Analyses	12
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STUDY LIMITATIONS	15

ATTACHMENT I - SOIL VAPOR SURVEY DETAILS

ATTACHMENT II - SOIL BORING DETAILS

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INTRODUCTION and PURPOSE

The purpose of this site assessment investigation was to evaluate the environmental conditions onsite, particularly with regards to potential impacts on soil or groundwater, if any. A site inspection was conducted and subsequent field investigations involved a soil vapor survey and a soil boring program including the collection of subsurface soil samples.

The site is located at 630 North Batavia Street, Orange, California, approximately three-quarters of a mile east of the Santa Ana River (see Figure 1). Santiago Creek, which flows west into the Santa Ana River, lies approximately one and one quarter mile south. The area around the site is a mixture of light industrial/commercial (predominantly north and west of the site), and residential (predominantly south of the site).

The subject site constituted a specialty chemical plant which produced a variety of cleaning products. Reportedly, manufacturing operations were discontinued in April, 1989. While the plant was in operation, raw materials were stored on site, predominantly in an above-ground tank farm located near the center of the site. Table 1 lists the materials stored by tank number and Figure 2 shows tank locations.



REFERENCE: USGS 7.5 MINUTE SERIES
 ANAHEIM QUADRANGLE 1981
 ORANGE QUADRANGLE 1981



SCALE



ENSR

SITE LOCATION MAP
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

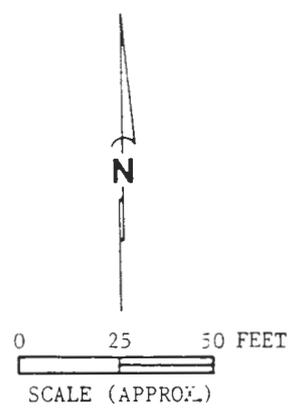
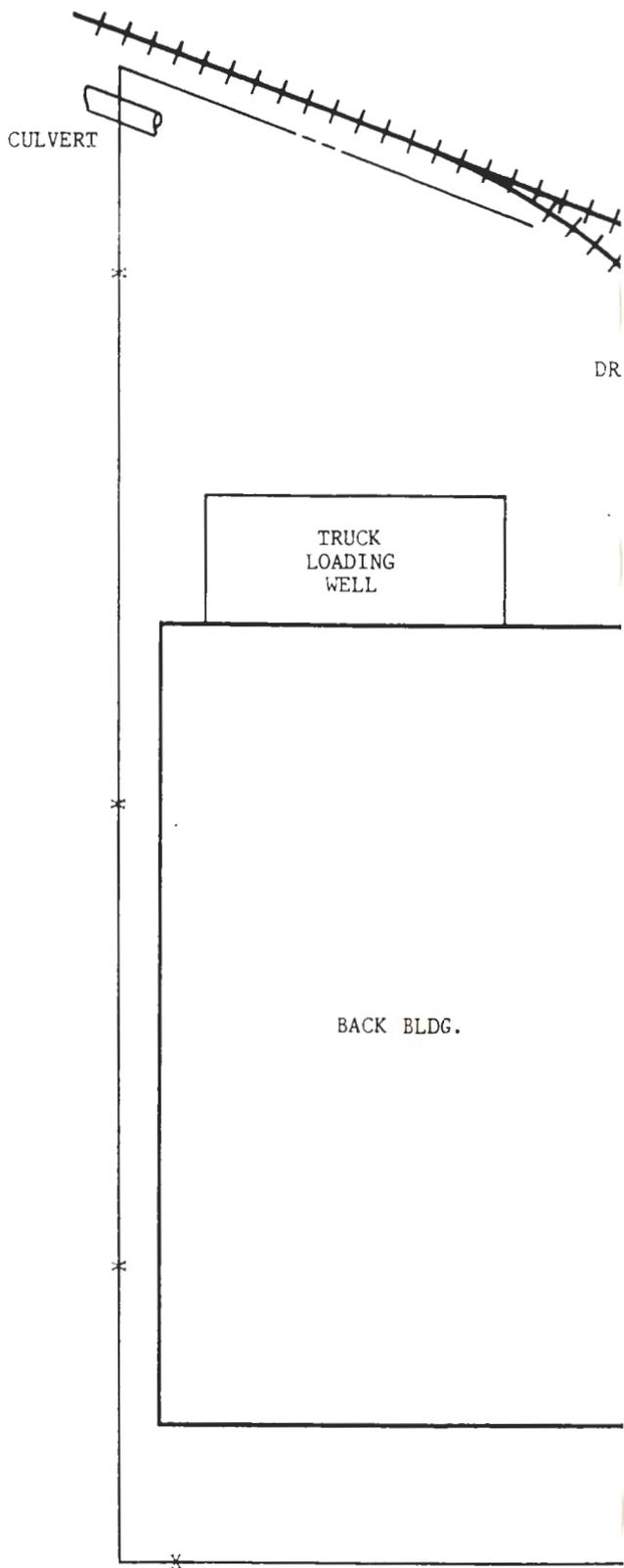
DRAWN BY: <i>BM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-202
CHK'D BY:	REVISED:	DWG.NO.: FIGURE 1



TABLE 1

Pennwalt Tank Capacities

<u>No.</u>	<u>Tank</u>	<u>Composition</u>	<u>Size-Gal's.</u>	<u>Use</u>
1	Wet Blends	Steel	3500 Jacket	Mix
2	Wet Blends	Steel	5000	Mix
3	Wet Blends	Steel	330	Premix
4	Wet Blends	SS	400 Portable & Jacket	Mix
5	Wet Blends	SS	1500	Mix
6	Wet Blends	SS	500	Mix
7	Not identified			
8	Wet Blends	SS	500	Mix
9	Wet Blends	SS	1500 Coil	Mix
10	Triethanolamine 85%	Steel	5000 Coil	RM0188
11	Wet Blends	SS	5000 Coil	Mix
12	KOH 50%	Fiberglass	5000	RM1962
13	Triton N101	Steel	5000	RM1528
14	"E" Silicate	Steel	5000 Coil	RM1374
15	Aromatic 150	Steel	8000	RM1589
16	Wet Blends	SS	1500	Mix
17	Hydrofluosilicic Acid 23%	Plastic	4200	RM0899
18	NaOH 50%	Steel	4000	RM1967
19	140 Solvent	Steel	2000	RM1089
20	Empty	Steel	6000	
21	Ucon ML5200	Steel	6000	RM1667
22	Empty	Steel	5000	
23	Empty	Steel	6000	
24	Empty	Steel	10,000 Coil	
25	Empty	Steel	10,000	
26	Mineral Seal Oil	Steel	1500	RM1193
27	Butyl Carbitol	Steel	1000	RM1128
28	Butyl Carbitol	Steel	1000	RM1128
29	Empty	Steel	10,000	
30	Naphtha Oil	Steel	10,000	RM0593
31	Naphtha Oil	Steel	10,000 Coil	RM0591
32	Indopol L50	Steel	10,000 Coil	RM2051
33	Empty	Steel	10,000 Coil	
34	Oil	Steel	10,000	RM0588
35	Not identified			
36	Not identified			
37	Kerosene	Steel	1000	RM0048
38	Indopol L14	Steel	10,000	RM2050
39	Wet Blends	SS	130 Portable	Mix
40	Waterbased Lubes	Steel	5000 Coil	Mix
41	Hold	Steel	14,000 Coil	Hold



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SITE PLAN
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

DRAWN BY: <i>AM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-292
CHK'D BY:	REVISED:	DWG. NO.: FIGURE 2



SITE DESCRIPTION

The following information was obtained during our site inspection in February, 1988. The facility is owned by Pennwalt Corporation, 3 Parkway, Philadelphia, Pennsylvania. The site address is 630 North Batavia Street, Orange, California, in the County of Orange. The site, which occupies approximately 3.37 acres, is covered nearly entirely with either buildings or pavement. The site constitutes a chemical specialties plant capable of manufacturing a large variety of metal preparation compounds and cleaners, and also includes warehousing and shipping facilities for products made both onsite and at other Pennwalt facilities, and office space for facility personnel. Reportedly, manufacturing operations were discontinued in April, 1989.

The property is bounded by Batavia Street on the east, a Santa Fe Railroad right-of-way on the north, and light industrial/commercial properties to the west and south. There are two buildings on the property; the main building which fronts Batavia Street contains approximately 24,000 square feet, about 4800 square feet of which is office space; and the back building contains approximately 26,000 square feet. Between the two buildings, there are a tank farm and a railroad siding.

The site has full access to public utilities. Electricity transmission lines are above ground. There are two electricity poles on the north side of the main building. Both have transformers attached. Southern California Edison has assured Pennwalt that no PCBs are used in the transformers.

A Santa Fe Railroad siding extends from the main track north of the property to the area between the main and back buildings. Where the buildings do not abut the property line

ENSR

on the north and portions of the west and south sides, there is chainlink fencing. The lot is essentially flat, with the rear slightly sloping to the northwest corner. Other depressions are designed to control surface water runoff.

Wastewater (primarily domestic) from the main building is discharged into the County sanitary sewer. A trench equipped with a grease trap in the main building discharges to the sanitary sewer.

Wastewater from the manufacturing processes and sumps around the back building is routed through a three-stage clarifier located outside of the northeast corner of the back building and is discharged into the County industrial sewer. There is a network of lines that direct wastewater collected in various drains, sumps, and trenches to the clarifier and eventually to the sewer system. Sumps are located in the bulk storage area, the truck wells, washdown shed, and certain process areas. Piping in the bulk storage area and wet processing area is complemented by trenches which are connected to the clarifier.

A 10-inch culvert at the very northwest corner of the property provides a conduit to drain surface water runoff offsite. Most of the storm water runoff drains by gravity, although storm water collected in the truck well sump is pumped to the culvert. The culvert extends west 100 to 120 feet and discharges to the surface at the bottom of the railroad grading. A storm drain is located nearby.

Approximately 38 above-ground storage and mixing tanks are located between and in both of the buildings (see Table 1 for volumes and types of materials contained). There is a liquified petroleum gas (propane) tank containing approximately 300-gallons, on the north side of the main building, west of the loading dock.



According to Donald Kossler, Plant Manager, asbestos is found in certain areas of the main building but that the back building, which was built in 1983, contains no asbestos. An asbestos survey was not requested to be conducted for this investigation.

The plant was capable of manufacturing over 150 different products in batch processes. Typical manufactured products included cutting oils, drawing compounds, acid and caustic cleaners, detergents, soaps, and related products. A number of mixers were used in the processing. Viscous raw materials were fluidized in an oven prior to mixing. A gas-fired boiler provided process steam. Many liquid raw materials were stored in tanks (see Table 1) and drums, while dry materials were stored in silos, drums and bags.

The raw materials were essentially consumed in the manufacturing process with no by-products. The only wastes generated were wastewater and oil tank and kettle wash out. As noted above, during operations the wastewater passed through a clarifier before it is discharged to the Orange County sewer system. Every three to four months, about 3,500 gallons of sludge which settled at the bottom of the clarifier was pumped out and transported by a registered hauler under manifest to an authorized waste management facility in Los Angeles.

The oil tank and kettle wash out were usually recycled back into the manufacturing process. Some residual oil was stored in 55-gallon drums and was transported by a registered hauler under manifest to an oil recycling facility.



According to Donald Kossler, Plant Manager, the site was vacant land prior to the construction of an oil blending facility by Kerns, Inc. in 1957. Kerns blended lubricating oils for industrial use at the facility.

Pennwalt purchased the facility around 1969 and added grease production capabilities. Pennwalt's Keystone Division continued to manufacture greases at the site until 1986. At this time, a process hot oil heater was dismantled and removed from the site. At the time of the inspection the heater used Mobiltherm (a non-PCB oil). Ten years ago the heater used an oil containing PCBs. It was reported by Pennwalt personnel that the PCB oil was removed and incinerated offsite, and the system was cleaned prior to replacement with a non-PCB oil.

A second building (the back building) was constructed in 1983. Detergents, cleaners, and soaps were made here along with metal preparation compounds. Waste generation did not significantly varied over the years; most raw materials were consumed in the manufacturing process with no by-products.

Current uses of adjacent properties include:

Katsis Autobody Crafts, 650 N. Batavia Street - autobody repair and painting.

Pacific Supply Corp., 675 N. Batavia Street - roofing supplies.

Hydroscape, 601 N. Batavia Street - landscaping and irrigation supplies.

Vacant (formerly Seatec Inflatable Systems), 600 N. Batavia Street - manufactured diving supplies.

Public Storage, 601 N. Main Street - retail storage spaces.

Arrowhead Drinking Water Co., 619 N. Main Street - distribution center for bottled drinking water.



There are a number of automotive repair shops in the vicinity. Additionally, two printing shops and a concrete construction company are located nearby.

According to the Orange County Water District, no drinking water production wells exist within 1,000 Feet of the site. A residential area consisting of single family houses and apartment buildings begins approximately 500 feet south of the site.

At the time of the inspection the facility held the following permits or registrations:

EPA Generator number : CAD 990667826
Orange County Hazardous Waste Program: Registration Number
465

Orange County Sanitation Districts: Class I Permit for
Industrial Wastewater Discharge Number 2-561

GEOLOGY/HYDROGEOLOGY

The following discussion of site geology/hydrogeology is compiled from the following documents:

"Ground-water Geology of the Coastal Zone, Long Beach-Santa Ana Area, California", ,J.F. Poland, A.M. Piper, et al, 1956, U.S. Geological Survey Water Supply Paper 1109.

"Progress Report On Ground Water Geology of the Coastal Plain of Orange County", California Department of Water Resources, 1967.

The site lies near the western boundary of the Tustin Plain, where it merges with the Downey Plain. The near-surface deposits in this central lowland area are thought to be of Recent or Pleistocene age and are composed of alluvial sediments (mixtures of gravel/sand/silt/clay) derived predominantly from the Santa Ana Mountains. The area near the site is likely a combination of sediments deposited from



Santiago Creek and the Santa Ana River. Site specific geology is discussed below in Findings.

According to Steve Overman of the California Regional Water Quality Control Board, groundwater exists approximately 90 to 100 feet below surface elevation and generally flows to the southwest. Groundwater production in the area near the site includes the City of Orange wells #18 and #19 (see Figure 1, for approximate location). These wells are reported by the City of Orange Water Department, to be sealed to approximately 400 feet depth with perforated sections placed intermittently between that depth and their total depths of approximately 1000 feet.

FIELD INVESTIGATIONS

Our field investigations included two tasks. The first involved a soil vapor survey to screen the site for the presence of petroleum hydrocarbon vapors in the soils. The second task involved the collection and analysis of soil samples from selected borings.

Soil Vapor Survey

On February 23, 1988, a soil vapor survey was conducted at the subject site. The survey consisted of the placement of twenty-four (24) temporary soil vapor probes from which vapor samples were collected and analyzed onsite using a portable gas chromatograph. The locations of the vapor sampling are shown on Figure 3. Other details concerning the soil vapor survey are discussed in Attachment I, which also contains copies of the actual chromatograms.



Soil Sampling

On February 25, 1988, five soil borings were excavated and soil samples collected. The locations of the borings are shown on Figure 3. Analytical results of soil samples analyzed are presented in Table 2. Attachment II contains a discussion of the details of the borings and copies of the boring logs. Boring SB-1 was excavated to a depth of approximately 65 feet. It had been planned that this boring would be drilled to ground water and that a monitoring well would be installed to sample ground water. The boring was terminated at the 65 foot depth because of drilling difficulty. It was subsequently felt by Pennwalt Corporation that installation of the monitoring wells would be unwarranted due to the depth to the uppermost aquifer (approximately 90 feet).

Boring SB-2 was terminated at 5 feet depth because the bottom of a gravel layer was encountered, saturated with an oil/water mixture. This perched liquid was believed to be limited to a depth of 5 feet, because a layer of clayey material was encountered below it.

FINDINGS

Soil Vapor Survey

Results from the soil vapor survey suggest that a low level of vapors exists in the soil at this site. However, an area between the old building (east side of site) and the existing tank farm was encountered during the survey with perched fluids (oil/water mixture). It was reported by site personnel that a former above-ground tank farm was located in this area (east of the present tank farm), and that a gravel bed had existed there as a base for the tanks. Boring SB-2 confirmed the presence of this gravel bed and the perched fluids in it.



Soil Borings and Sample Analyses

Boring logs for the five (5) borings are presented in Attachment II. To summarize, the site which has an asphalt concrete/cement concrete surface, is underlain by alluvial sediments composed predominantly of gravel, except for the upper ten to fifteen feet, which consisted of finer grained sediments, including sands, silts, and clays.

As mentioned above, a gravel bed was encountered in Boring SB-2, which was saturated with an oil/water mixture. This fluid was analyzed to evaluate the type of hydrocarbons it contained. Comparison of Methods 418.1 and 8015-M, suggest that the hydrocarbons in the lighter than water phase are composed of diesel fuel range hydrocarbons (approximately 30 %) and light oil range hydrocarbons (approximately 70 %). Additionally, low levels of PCB's (Aroclor 1242) and 2-Butanone (methyl-ethyl ketone) were detected in one sample of this fluid.

Soil samples collected from the other four borings were analyzed for Purgeable Organics by EPA Method 8240. None of these compounds were detected in any of the four (4) samples analyzed (see Table 2).

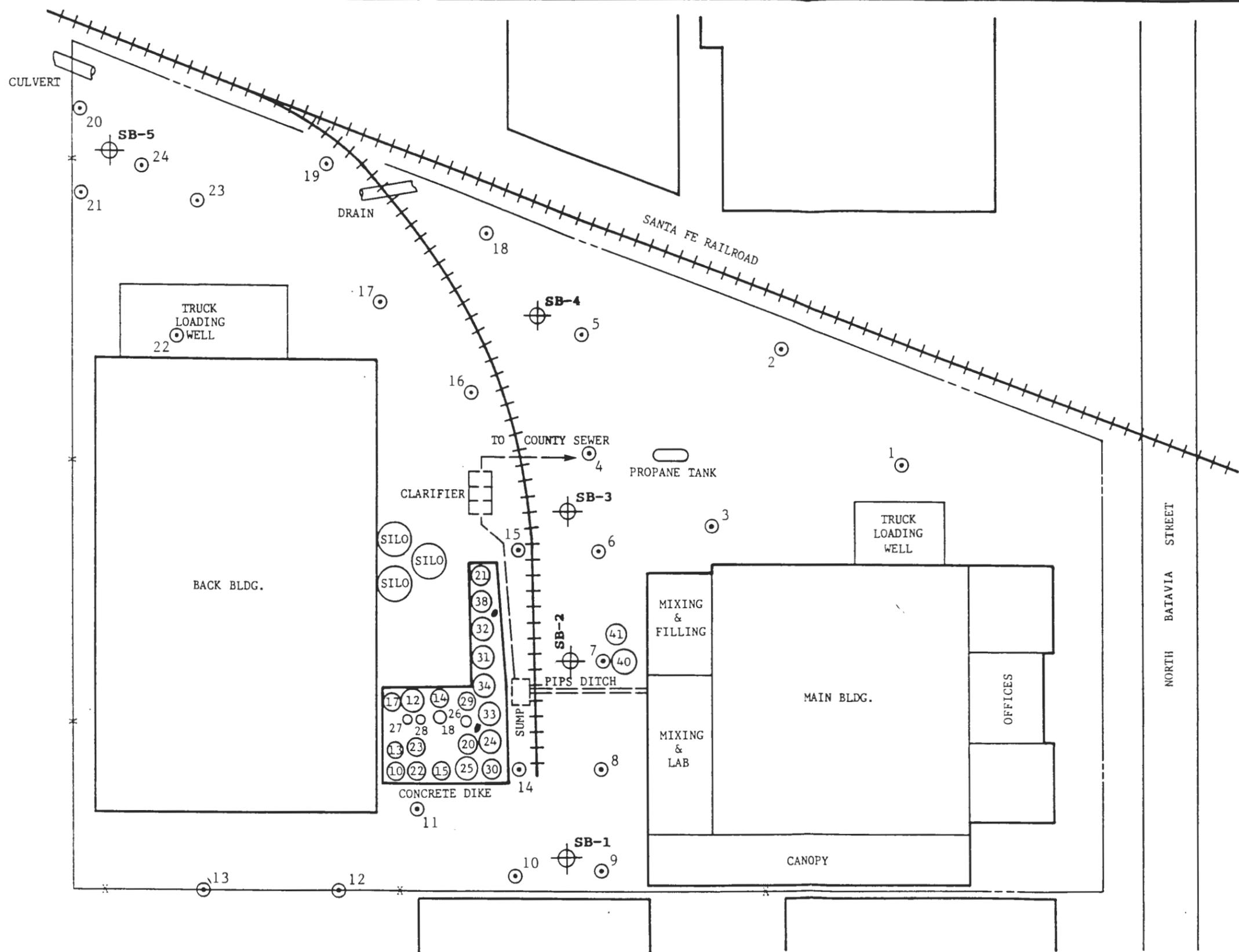


TABLE 2

Results from Laboratory Analyses of Soil Samples

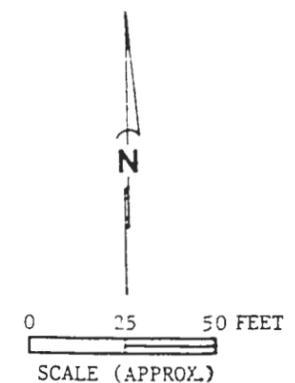
<u>SAMPLE</u>	<u>METHOD</u>	<u>RESULTS</u>
SB-1-10'	8240	None detected
SB-1-35'	8240	None detected
"	418.1	None detected
SB-2-5'	8240	None detected
"	418.1	617 mg/kg hydrocarbons
SB-3-5'	8240	None detected
SB-4-5'	8240	None detected
SB-5-5'	8240	None detected

* please see attached laboratory report for list of compounds analyzed and detection limits.



EXPLANATION

- ⊙₁ SOIL VAPOR SAMPLE LOCATION
- ⊕_{SB-1} SOIL BORING LOCATION



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SITE PLAN
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

DRAWN BY: <i>AM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-202
CHK'D BY:	REVISED:	DWG. NO.: FIGURE 3

CONCLUSIONS

Based on the results from the soil sample analyses, presented in Table 2, soil conditions do not appear in general to have been impacted except for the area around Boring SB-2. The extent of this impacted area is believed to be limited to the area of the former above-ground tank farm.

STUDY LIMITATIONS

This report, including the exhibits attached, describes the results of ENSR's initial investigation to evaluate the environmental conditions at the site particularly with regard to impacts to soil or groundwater, if any. The conclusions and recommendations stated herein represent the application of a variety of engineering and technical disciplines to material facts and conditions associated with the subject site, as a result of Phase I and Phase II investigations which were conducted during the period of February 17 through March 18, 1988. Many of these facts and conditions are subject to change over time; accordingly, the conclusions and recommendations must be viewed within this context. We also note that groundwater was not sampled.

ENSR has performed this site assessment in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Finally we note that this assessment was prepared for the use of Pennwalt Corporation. ENSR shall not be responsible for conditions or consequences arising from any matters related to the investigation and this report.



ATTACHMENT I

Soil Vapor Survey

Soil vapor mapping is conducted along discrete specified grid coordinates. For this site, grid points were set at approximately 50-foot centers across the center of the site. Sampling was also conducted on a less regimented pattern along the southern and northern sides of the site.

A total of 24 soil vapor probes were sampled during this survey. A specially-constructed 1/4-inch O.D. by 36-inch long stainless steel probe was manually inserted to a depth of 34 to 36 inches into the subsurface. The probe channel was partially predrilled using a portable 15-pound plunger bar or drop-hammer. The drop-hammer, consisting of a 4-1/2-foot-long, 1/2-inch-diameter steel rod, topped with a 15-pound steel weight, was used to drill to a soil depth of approximately 30 inches, the probe being hand-driven the remaining 4 to 6 inches into fresh, undisturbed soil. No cuttings or waste soil/water was generated by this procedure. Following installation, the probes were attached to the gas chromatograph utilizing a 1/8-inch O.D. by 5-foot length of Teflon gas tubing. Air blanks were taken through the probes and analyzed before the probes were inserted into the soil for each soil vapor analysis.

A Photovac Model 10S50 autocomputer portable gas chromatograph was used to analyze the vapor samples. The GC included a CSP-20M, 80/100 mesh analytical column (1/8-inch O.D. by 4-foot O.A.L.) and 6-inch CSP-20M precolumn. A special ultra-pure grade of compressed air was used as carrier gas.

Sampling Protocol

Soil vapor analysis was conducted per the following protocol:

- 1) Inserted stainless steel soil vapor probe to a depth of 34 to 36 inches. The probes were sampled no later than 30 to 60 minutes after installation.
- 2) The GC was standardized using a benzene gas standard (254 ppb) prior to conducting the survey.
- 3) "Air-blanks" were analyzed by sampling the background air through the sample probe before each vapor analysis.

PENNWALT: FEB 23, 1988

<u>Sample</u>	<u>Total</u>	<u>Air</u> (MVS)	<u>Net</u> (MVS)
1	3808	211	3597
1 (repeat)	4327	211	4116
2	4329	165	4164
3	1961	132	1829
4	6414	43	6371
5	4830	291	4539
6	4128	222	3906
7	8745	131	8614
8			*Significant soil moisture
9	8795	84	8711
10	15073	285	14788
11	16782	713	16069
11 (repeat)	7038	713	6325
12	4656	275	4381
13	9414	232	9182
14	43853	353	43500
15	15176	203	14973 *used second "air" reading
16	458	894	-436
16 (repeat)	278	894	-616
17	9565	15	9550
18	7836	13	7823 *used second "air" reading
19	30875	469	30406
20	18080	351	17729
21	126	502	-376
21 (repeat)	6	502	-496
22	111	78	33
23	7238	41	7197
24	3365	200	3165

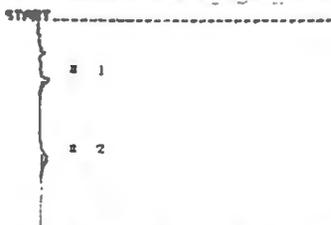
PHOTOVAC



STOP # 122.4
 SAMPLE RUN FEB 23 1988 7:11
 ANALYSIS # 2 PENNALT
 TEMPERATURE 27 AIR
 GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.1	2.2 μS

PHOTOVAC



STOP # 104.2
 SAMPLE RUN FEB 23 1988 8:41
 ANALYSIS # 5 PENNALT
 TEMPERATURE 23 AIR
 GAIN 10 POINT 1

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	10.3	32.5 μS
UNKNOWN	2	113.3	113.3 μS

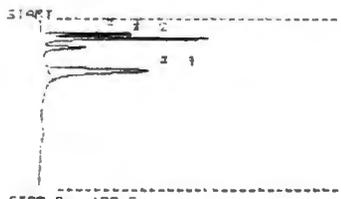
PHOTOVAC



STOP # 100.7
 SAMPLE RUN FEB 23 1988 3:9
 ANALYSIS # 8 PENNALT
 TEMPERATURE 24 AIR
 GAIN 10 POINT 2

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.1	126.8 μS
UNKNOWN	2	117.2	25.3 μS

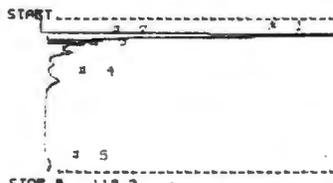
PHOTOVAC



STOP # 102.5
 SAMPLE RUN FEB 23 1988 7:14
 ANALYSIS # 3 PENNALT
 TEMPERATURE 27 STANDARD
 GAIN 10 25ATFB BENTENE

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.3	100.0 μS
UNKNOWN	2	15.6	324.5 μS
UNKNOWN	3	22.6	263.6 μS
UNKNOWN	4	40.9	1.2 μS

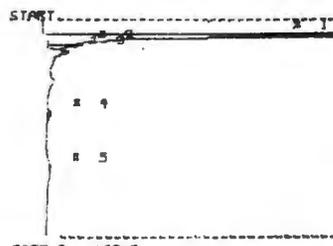
PHOTOVAC



STOP # 113.3
 SAMPLE RUN FEB 23 1988 8:56
 ANALYSIS # 6 PENNALT
 TEMPERATURE 23 AIR
 GAIN 10 POINT 1

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.3	3.5 μS
UNKNOWN	2	17.5	150.1 μS
UNKNOWN	3	22.2	81.9 μS
UNKNOWN	4	30.5	37.9 μS

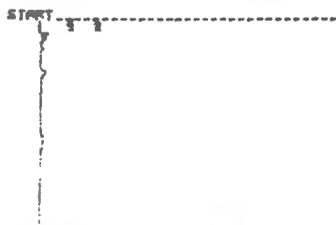
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STOP # 100.5
 SAMPLE RUN FEB 23 1988 3:8
 ANALYSIS # 3 PENNALT
 TEMPERATURE 23 SAMPLE
 GAIN 10 POINT 2

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.3	4.0 μS
UNKNOWN	2	20.8	210.4 μS
UNKNOWN	3	25.7	74.2 μS
UNKNOWN	4	29.5	27.7 μS
UNKNOWN	5	118.0	10.8 μS

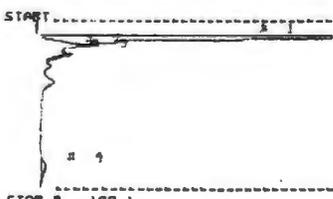
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STOP # 162.5
 SAMPLE RUN FEB 23 1988 7:10
 ANALYSIS # 1 PENNALT
 TEMPERATURE 27 AIR
 GAIN 10 POINT 1

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.1	22.6 μS
UNKNOWN	2	15.9	17.7 μS

PHOTOVAC



STOP # 130.1
 SAMPLE RUN FEB 23 1988 8:55
 ANALYSIS # 7 PENNALT
 TEMPERATURE 24 SAMPLE REPEAT
 GAIN 10 POINT 1

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.7	4.1 μS
UNKNOWN	3	20.2	85.8 μS
UNKNOWN	4	118.9	141.3 μS

PHOTOVAC



STOP # 163.8
 SAMPLE RUN FEB 23 1988 3:12
 ANALYSIS # 10 PENNALT
 TEMPERATURE 24 AIR
 GAIN 10 POINT 3

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.8	115.8 μS
UNKNOWN	2	118.0	13.8 μS

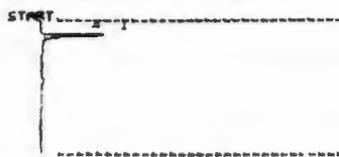
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STOP # 115.4
 SAMPLE RUN FEB 23 1988 3:13
 ANALYSIS # 11 PENNALT
 TEMPERATURE 25 SAMPLE
 GAIN 10 POINT 3

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.9	381.1 µS
UNKNOWN	2	14.6	374.3 µS
UNKNOWN	3	22.8	6.3 µS

PHOTOVAC



STOP # 184.3
 SAMPLE RUN FEB 23 1988 3:23
 ANALYSIS # 14 PENNALT
 TEMPERATURE 25 AIR
 GAIN 10 POINT 5

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.8	231.8 µS

PHOTOVAC



STOP # 186.8
 SAMPLE RUN FEB 23 1988 3:28
 ANALYSIS # 17 PENNALT
 TEMPERATURE 26 SAMPLE
 GAIN 10 POINT 6

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.2	3.8 µS
UNKNOWN	2	13.8	288.2 µS
UNKNOWN	3	25.2	58.5 µS
UNKNOWN	4	34.5	272.8 µS

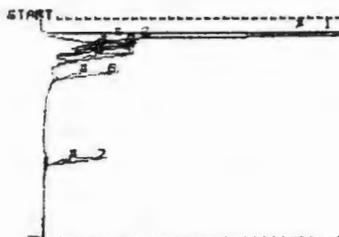
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STOP # 238.1
 SAMPLE RUN FEB 23 1988 3:18
 ANALYSIS # 12 PENNALT
 TEMPERATURE 24 AIR
 GAIN 10 POINT 4

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.1	21.8 µS
UNKNOWN	2	14.3	7.4 µS
UNKNOWN	3	116.8	15.3 µS

PHOTOVAC



STOP # 172.8
 SAMPLE RUN FEB 23 1988 3:22
 ANALYSIS # 15 PENNALT
 TEMPERATURE 25 SAMPLE
 GAIN 10 POINT 5

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.1	4.8 µS
UNKNOWN	3	25.3	8.2 µS
UNKNOWN	4	27.3	28.8 µS
UNKNOWN	5	33.7	107.2 µS
UNKNOWN	6	47.7	34.3 µS
UNKNOWN	7	115.1	81.8 µS

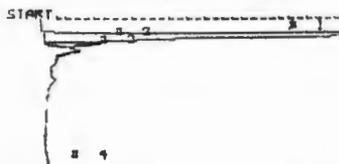
PHOTOVAC



STOP # 115.8
 SAMPLE RUN FEB 23 1988 3:26
 ANALYSIS # 18 PENNALT
 TEMPERATURE 26 AIR
 GAIN 10 POINT 7

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.8	191.8 µS

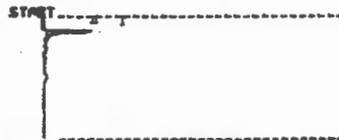
PHOTOVAC



STOP # 124.5
 SAMPLE RUN FEB 23 1988 3:22
 ANALYSIS # 13 PENNALT
 TEMPERATURE 25 SAMPLE
 GAIN 10 POINT 4

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.7	8.8 µS
UNKNOWN	2	13.7	318.2 µS
UNKNOWN	3	25.1	85.1 µS
UNKNOWN	4	115.1	13.4 µS

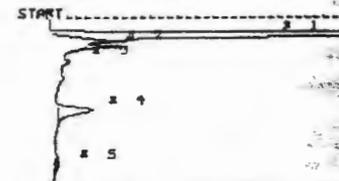
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STOP # 33.8
 SAMPLE RUN FEB 23 1988 3:32
 ANALYSIS # 16 PENNALT
 TEMPERATURE 25 AIR
 GAIN 10 POINT 8

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.8	222.3 µS

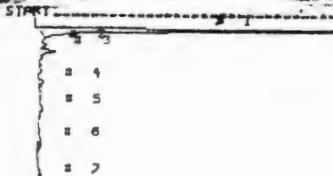
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STOP # 128.7
 SAMPLE RUN FEB 23 1988 3:33
 ANALYSIS # 15 PENNALT
 TEMPERATURE 26 SAMPLE
 GAIN 10 POINT 7

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	13.1	7.7 µS
UNKNOWN	2	22.8	222.8 µS
UNKNOWN	3	34.8	13.2 µS
UNKNOWN	4	73.1	781.4 µS
UNKNOWN	5	114.8	83.3 µS

PHOTOVAC



STOP # 138.2
 SAMPLE RUN FEB 23 1988 18:58
 ANALYSIS # 33 PENNALT
 TEMPERATURE 25 AIR
 GAIN 18 POINT 15

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.7	2.5 US
UNKNOWN	2	23.8	8.7 μS
UNKNOWN	3	28.7	88.3 μS
UNKNOWN	4	33.7	42.2 μS
UNKNOWN	5	74.5	18.8 μS
UNKNOWN	6	101.3	32.5 μS
UNKNOWN	7	123.8	13.5 μS

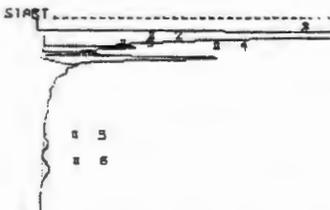
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STOP # 108.3
 SAMPLE RUN FEB 23 1988 18:52
 ANALYSIS # 36 PENNALT
 TEMPERATURE 27 AIR
 GAIN 18 POINT 15

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.8	287.7 μS

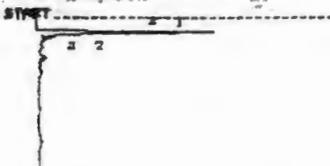
PHOTOVAC



STOP # 155.3
 SAMPLE RUN FEB 23 1988 18:55
 ANALYSIS # 37 PENNALT
 TEMPERATURE 27 SAMPLE
 GAIN 18 POINT 15

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	15.3	11.8 US
UNKNOWN	2	23.3	1.8 US
UNKNOWN	3	28.3	354.7 μS
UNKNOWN	4	31.7	1.7 US
UNKNOWN	5	33.8	87.1 μS
UNKNOWN	6	113.3	235.8 μS

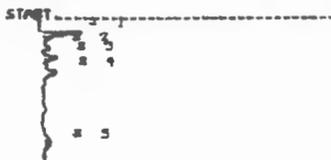
PHOTOVAC



STOP # 138.1
 SAMPLE RUN FEB 23 1988 18:53
 ANALYSIS # 38 PENNALT
 TEMPERATURE 27 AIR
 GAIN 18 POINT 18

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.8	88.2 μS
UNKNOWN	2	31.9	18.8 μS

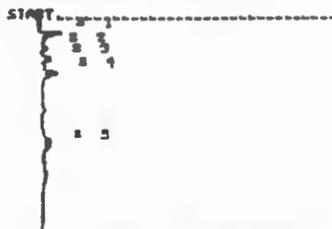
PHOTOVAC



STOP # 140.2
 SAMPLE RUN FEB 23 1988 11:12
 ANALYSIS # 33 PENNALT
 TEMPERATURE 27 SAMPLE
 GAIN 18 POINT 18

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.1	288.8 μS
UNKNOWN	2	23.5	11.8 μS
UNKNOWN	3	31.8	38.8 μS
UNKNOWN	4	43.8	12.8 μS
UNKNOWN	5	53.5	187.8 μS

PHOTOVAC



STOP # 187.7
 SAMPLE RUN FEB 23 1988 11:15
 ANALYSIS # 48 PENNALT
 TEMPERATURE 27 SAMPLE REPEAT
 GAIN 18 POINT 18

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.1	188.3 μS
UNKNOWN	2	23.8	6.7 μS
UNKNOWN	3	31.8	18.3 μS
UNKNOWN	4	43.2	38.3 μS
UNKNOWN	5	53.8	124.8 μS

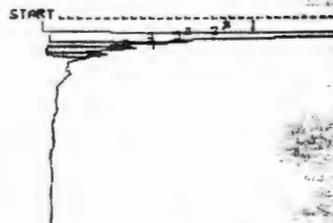
PHOTOVAC



STOP # 118.8
 SAMPLE RUN FEB 23 1988 11:18
 ANALYSIS # 41 PENNALT
 TEMPERATURE 27 AIR
 GAIN 18 POINT 12

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.8	18.1 μS

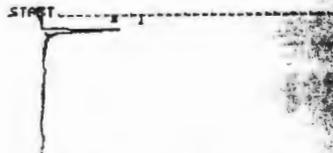
PHOTOVAC



STOP # 181.2
 SAMPLE RUN FEB 23 1988 11:18
 ANALYSIS # 42 PENNALT
 TEMPERATURE 26 SAMPLE
 GAIN 18 POINT 17

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.8	7.8 US
UNKNOWN	2	18.7	1.7 US
UNKNOWN	3	23.3	1.8 US
UNKNOWN	4	28.3	385.3 μS

PHOTOVAC



STOP # 115.6
 SAMPLE RUN FEB 23 1988 11:19
 ANALYSIS # 43 PENNALT
 TEMPERATURE 28 AIR
 GAIN 18 POINT 18

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.7	928.5 μS

PHOTOVAC

START

STOP # 33.2
 SAMPLE RUN FEB 23 1988 11:12
 ANALYSIS # 14 PENNALT
 TEMPERATURE 28 AIR
 GAIN 10 POINT 10

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.3	13.4 μ S

PHOTOVAC

START

STOP # 162.0
 SAMPLE RUN FEB 23 1988 11:21
 ANALYSIS # 45 PENNALT
 TEMPERATURE 28 SAMPLE
 GAIN 10 POINT 10

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	12.6	7.2 μ S
UNKNOWN	2	18.3	533.3 μ S
UNKNOWN	3	23.1	37.9 μ S

PHOTOVAC

START

STOP # 154.6
 SAMPLE RUN FEB 23 1988 11:24
 ANALYSIS # 16 PENNALT
 TEMPERATURE 28 AIR
 GAIN 10 POINT 15

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.9	483.0 μ S

PHOTOVAC

START

STOP # 383.8
 SAMPLE RUN FEB 23 1988 11:05
 ANALYSIS # 17 PENNALT
 TEMPERATURE 26 SAMPLE
 GAIN 10 POINT 13

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	12.1	6.7 μ S
UNKNOWN	2	22.2	522.1 μ S
UNKNOWN	3	26.5	238.8 μ S
UNKNOWN	4	36.1	182.5 μ S
UNKNOWN	5	47.3	523.6 μ S
UNKNOWN	6	58.7	883.3 μ S
UNKNOWN	7	68.1	2.9 μ S
UNKNOWN	8	88.5	233.6 μ S
UNKNOWN	9	97.8	184.2 μ S
UNKNOWN	10	113.3	9.7 μ S
UNKNOWN	11	133.4	6.3 μ S
UNKNOWN	12	165.9	6.1 μ S
UNKNOWN	13	218.8	1.8 μ S
UNKNOWN	14	261.5	63.3 μ S
UNKNOWN	15	282.5	183.2 μ S

PHOTOVAC

START

STOP # 293.2
 SAMPLE RUN FEB 23 1988 11:41
 ANALYSIS # 18 PENNALT
 TEMPERATURE 26 AIR
 GAIN 10 POINT 20

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	17.0	228.0 μ S
UNKNOWN	2	22.3	28.3 μ S
UNKNOWN	3	114.8	98.1 μ S
UNKNOWN	4	208.8	18.3 μ S

PHOTOVAC

START

STOP # 348.7
 SAMPLE RUN FEB 23 1988 11:48
 ANALYSIS # 43 PENNALT
 TEMPERATURE 27 SAMPLE
 GAIN 10 POINT 20

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	12.1	4.6 μ S
UNKNOWN	2	28.2	2.0 μ S
UNKNOWN	3	28.4	433.8 μ S
UNKNOWN	4	31.3	2.3 μ S
UNKNOWN	5	58.1	1.0 μ S
UNKNOWN	6	49.1	1.0 μ S
UNKNOWN	7	56.1	1.8 μ S
UNKNOWN	8	68.3	2.2 μ S
UNKNOWN	9	73.3	48.1 μ S
UNKNOWN	10	113.6	832.4 μ S
UNKNOWN	11	133.7	35.3 μ S
UNKNOWN	12	182.3	114.5 μ S
UNKNOWN	13	212.3	112.1 μ S

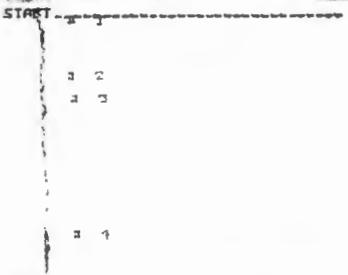
PHOTOVAC

START

STOP # 271.1
 SAMPLE RUN FEB 23 1988 11:54
 ANALYSIS # 58 PENNALT
 TEMPERATURE 28 AIR
 GAIN 10 POINT 21

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.3	182.7 μ S
UNKNOWN	2	28.2	13.8 μ S
UNKNOWN	4	58.1	53.8 μ S
UNKNOWN	6	28.7	36.1 μ S
UNKNOWN	7	37.4	273.6 μ S
UNKNOWN	8	113.3	18.4 μ S
UNKNOWN	9	186.1	1.4 μ S

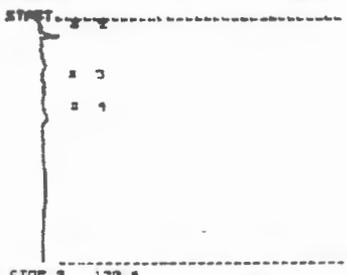
PHOTOVAC



STOP # 208.7
 SAMPLE RUN FEB 23 1988 11:58
 ANALYSIS # 51 PENNALT
 TEMPERATURE 23 SAMPLE
 GAIN 10 POINT 21

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.2	5.8 μS
UNKNOWN	2	11.3	5.3 μS
UNKNOWN	3	11.4	14.1 μS
UNKNOWN	4	109.1	102.4 μS

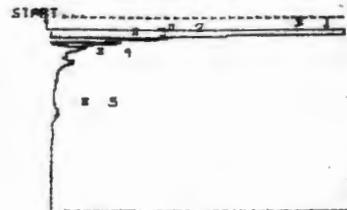
PHOTOVAC



STOP # 139.1
 SAMPLE RUN FEB 23 1988 12:13
 ANALYSIS # 54 PENNALT
 TEMPERATURE 23 SAMPLE
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.3	20.5 μS
UNKNOWN	2	11.4	23.2 μS
UNKNOWN	3	52.5	11.3 μS
UNKNOWN	4	78.3	7.8 μS

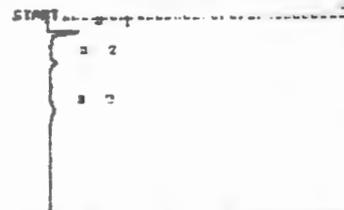
PHOTOVAC



STOP # 151.7
 SAMPLE RUN FEB 23 1988 12:20
 ANALYSIS # 57 PENNALT
 TEMPERATURE 31 SAMPLE
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.5	0.8 μS
UNKNOWN	2	10.8	770.2 μS
UNKNOWN	3	28.2	454.3 μS
UNKNOWN	4	35.4	74.3 μS
UNKNOWN	5	25.8	11.8 μS

PHOTOVAC



STOP # 152.8
 SAMPLE RUN FEB 23 1988 12:23
 ANALYSIS # 58 PENNALT
 TEMPERATURE 32 AIR
 GAIN 10 POINT 23

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	10.8	100.4 μS

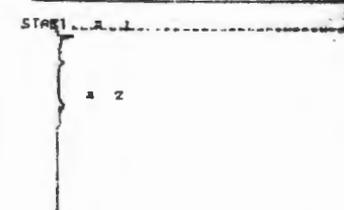
PHOTOVAC



STOP # 129.1
 SAMPLE RUN FEB 23 1988 12:10
 ANALYSIS # 53 PENNALT
 TEMPERATURE 30 AIR
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.2	3.3 μS
UNKNOWN	2	10.5	32.5 μS
UNKNOWN	3	32.4	13.9 μS
UNKNOWN	4	63.7	23.3 μS

PHOTOVAC



STOP # 208.7
 SAMPLE RUN FEB 23 1988 12:51
 ANALYSIS # 60 PENNALT
 TEMPERATURE 33 AIR
 GAIN 10 POINT 24

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	10.8	677.1 μS
UNKNOWN	2	68.1	72.4 μS

PHOTOVAC



STOP # 223.3
 SAMPLE RUN FEB 23 1988 12:12
 ANALYSIS # 52 PENNALT
 TEMPERATURE 28 SAMPLE REPEAT
 GAIN 10 POINT 21

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	25.0	6.3 μS

PHOTOVAC



STOP # 129.1
 SAMPLE RUN FEB 23 1988 12:10
 ANALYSIS # 55 PENNALT
 TEMPERATURE 30 AIR
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	52.5	2.6 μS
UNKNOWN	2	60.5	33.6 μS

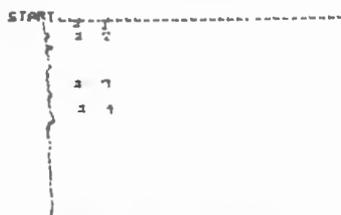
PHOTOVAC



STOP # 197.6
 SAMPLE RUN FEB 23 1988 12:16
 ANALYSIS # 56 PENNALT
 TEMPERATURE 31 STANDARD
 GAIN 10 254PPM BENTENE

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.6	408.7 μS
UNKNOWN	2	14.4	308.6 μS
UNKNOWN	3	28.8	283.7 μS
UNKNOWN	4	38.2	1.4 μS
UNKNOWN	5	77.9	6.3 μS

PHOTOVAC



STOP # 152.2
 SAMPLE RUN FEB 23 1988 12:16
 ANALYSIS # 53 PENNALT
 TEMPERATURE 23 AIR
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	11.1	7.5 μS
UNKNOWN	2	21.2	23.7 μS
UNKNOWN	3	33.1	15.5 μS
UNKNOWN	4	77.5	23.1 μS



ATTACHMENT II

Drilling and Soil Sampling

Borings for the collection of soil samples were excavated using a hollow-stem auger. Soil samples were collected at five-foot intervals, using a modified California split spoon sampler fitted with brass tubes for soil retention. Lithologic logs of the boreholes were compiled from these samples by a geologist, in accordance with the Unified Soils Classification System.

At least two samples were retrieved per sampling interval. Screening organic vapor using an ambient temperature headspace (ATH) method was conducted on one of these samples, by placing a portion of the soil into a clean glass jar, and sealing the jar with aluminum foil and a modified lid. After the sample was allowed to reach ambient temperature, the foil seal was punctured with the sampling probe of an HNu, photoionization detector, and the headspace was analyzed. Selected soil samples were delivered to a California-certified hazardous waste laboratory, and analyzed for volatile organics pollutants using U.S. EPA Method 8240.

The soil samples were for shipment to the laboratory as follows: Upon retrieval from the sampler, the middle of three brass tubes was covered on both ends with Teflon liners and capped with plastic end caps. The end caps were secured with plastic tape. A sample label was attached, identifying the sample by boring number and depth interval. The samples were then sealed in plastic bags and placed on ice. The samples were transported with documented chain-of-custody forms to the laboratory.

Prior to each use, the modified California split tube sampler was cleaned by first washing with a non-phosphate detergent, followed by a tap water rinse, methanol rinse and thorough distilled water rinse.

Soil borings were backfilled with cuttings and capped with concrete.



LITHOLOGIC LOG AND CONSTRUCTION

CLIENT _____

DRILLING AND SAMPLING INFORMATION

PROJECT NAME PENWALT ORANGE PLANT

DATE STARTED 2/25/88 DATE COMPLETED 2/25/88

PROJECT LOCATION _____

DRILLED BY A & R DRILLING DRILLER MARK

JOB NO. G812-201 BORING NO. MW-1 (SB-1)

METHOD HOLLOW STEM AUGER TOTAL DEPTH 66 FEET

LOGGED BY M. GANDER M. WOOD

BOREHOLE SIZE 8 - INCHES DRILLING EQUIPMENT CME-75

APPROVED BY C. KELLER R. RICHTER

WELL COMPLETION INFORMATION

BORING LOCATION SOUTH CENTRAL PORTION OF SITE

SCREEN DIA. _____ LENGTH _____

ELEVATION AND DATUM 166 FEET, USGS 7.5' ORANGE, CA

SLOT SIZE _____ TYPE _____

CASING DIA. _____ LENGTH _____

DEPTH (feet)	DESCRIPTION	SAMPLES					GRAPHIC LOG		REMARKS
		BLOW COUNT (blows/foot)	DRILLING (rate/time)	NUMBER	TYPE	AMBIENT HEADSPACE	LITHOLOGY	WELL COMPLETION	
	SPUD AT 8:50 AM								
	CONCRETE, 4 INCHES OF CEMENT CONCRETE		8:50				CC		SLOW DRILLING THROUGH CONCRETE
5	"ALLUVIUM (Qa1)" SILTY CLAY (CL) RED TO BROWN, MOIST, FIRM, SLIGHTLY PLASTIC, STICKY	8	9:16	5	S		Qa1 CL		140 LB HAMMER 30 INCH STROKE AMBIENT AIR OVA = 2.2 PPM
10	BECOMES CLAYEY SILT (ML) RED TO BROWN, DAMP, MEDIUM FIRM, NONPLASTIC, TRACE SAND VERY FINE GRAINED	11	9:26	10	S		ML		AMBIENT AIR OVA = 1 PPM
15	BECOMES MOIST	28	9:39	15	S				
20	"ALLUVIUM (Qa1)" SILTY GRAVEL (GC) BROWN, DAMP, DENSE, GRAVEL COARSE TO FINE, SUBANGULAR TO SUBROUNDED, SAND COARSE TO MEDIUM GRAINED	32	9:54	20	S		Qa1 GC		SLOW DRILLING- COBBLES AND GRAVEL AMBIENT AIR OVA ≤ 1.5 PPM
25	BECOMES SANDY GRAVEL (GM/GP) BROWN, DRY TO DAMP, DENSE	46	10:15	25	S		GM GP		SLOW DRILLING
30		57	10:35	30	S				



LITHOLOGIC LOG AND CONSTRUCTION

PROJECT NAME PENWALT ORANGE PLANT LOGGED BY M. GANDER APPROVED BY R. RICHTER
M. WOOD APPROVED BY C. KELLER
 JOB NO. G812-201 ELEVATION AND DATUM 166 FEET, USGS 7.5' ORANGE, CA
 BORING NO. MW-1 (SB-1)

DEPTH (feet)	DESCRIPTION	SAMPLES					GRAPHIC LOG		REMARKS
		BLOW COUNT (blows/foot)	DRILLING (rate/time)	NUMBER	TYPE	AMBIENT HEADSPACE	LITHOLOGY	WELL COMPLETION	
	CONTINUED SANDY GRAVEL (GM/GP)		10:35				GM/GP		
35	"ALLUVIUM (Qa1)" SILTY SAND (SM) BROWN, DAMP, LOOSE POORLY GRADED	7	10:45	35	S	1.4	Qa1 SM		
40	"ALLUVIUM (Qa1)" GRAVELLEY CLAY (GC) BROWN, MOIST, MEDIUM FIRM, SLIGHTLY PLASTIC, GRAVEL COARSE TO FINE, SUBROUNDED	9	10:55	40	S	1.2	Qa1 GC		AMBIENT AIR OVA \leq 1.5 PPM
45	"ALLUVIUM (Qa1)" SANDY GRAVEL (GP) BROWN, MOIST, VERY DENSE, GRAVEL FINE TO COARSE, SUBANGULAR TO SUBROUNDED, SAND COARSE TO FINE GRAINED, WELL GRADED	50 FOR 5"	11:13	45	S		Qa1 GP		SLOW DRILLING
50		39	11:35	50	S				
55	CONTINUED SANDY GRAVEL (GP/GM) WITH AN INCREASE IN FINES WITH THIN SILT LAMINAE (LENSES)	33	12:03				GP/GM		
60	LENSE OF "PEA GRAVEL" ROUNDED, POORLY GRADED	33	12:20	60	S				AMBIENT AIR OVA \leq 1.5 PPM
65	"ALLUVIUM (Qa1)" SILTY SAND (SM) BROWN, MOIST, DENSE, POORLY GRADED, SAND MEDIUM TO FINE GRAINED	41	1:20	65	S		Qa1 SM		BREAK IN DRILLING



LITHOLOGIC LOG AND CONSTRUCTION

CLIENT _____
 PROJECT NAME PENWALT ORANGE PLANT
 PROJECT LOCATION _____
 JOB NO. G812-201 BORING NO. SB-2
 LOGGED BY M. GANDER M. WOOD
 APPROVED BY C. KELLER R. RICHTER
 BORING LOCATION NORTH OF MW-1 ALONG RAILROAD TRACK
 ELEVATION AND DATUM 166 FEET, USGS 7.5' ORANGE, CA

DRILLING AND SAMPLING INFORMATION
 DATE STARTED 2/25/88 DATE COMPLETED 2/25/88
 DRILLED BY A & R DRILLING DRILLER MARK
 METHOD HOLLOW STEM AUGER TOTAL DEPTH 6 FEET
 BOREHOLE SIZE 8 - INCHES DRILLING EQUIPMENT CME-75

WELL COMPLETION INFORMATION
 SCREEN DIA. _____ LENGTH _____
 SLOT SIZE _____ TYPE _____
 CASING DIA. _____ LENGTH _____

DEPTH (feet)	DESCRIPTION	SAMPLES					GRAPHIC LOG		REMARKS
		BLOW COUNT (blows/foot)	DRILLING (rate/time)	NUMBER	TYPE	AMBIENT HEADSPACE	LITHOLOGY	WELL COMPLETION	
	SPUD AT 2:10 PM								
	ASPHALT, 4 INCHES OF ASPHALTIC CONCRETE FILL (af) GRAVEL (GW) BLACK, SATURATED, LOOSE, STRONG HYDROCARBON/OIL FILM		2:10	1.5	L		AC af GW		WATER AT 18 IN CLEAN HOLE WITH POST HOLE DIGGER AND SAMPLE WATER (SB-2-1.5) STRONG HYDROCARBON ODOR AMBIENT AIR OVA ≤ 2.2 PPM SOIL SAMPLE (SB-2-5) WATER SAMPLES - (SB-2-5A; SB-2-5B)
5	"ALLUVIUM (Qa1)" SILTY CLAY (CL) DARK GRAY, SATURATED, SOFT TO FIRM, SLIGHTLY PLASTIC, STICKY	10	2:20	5 5A 5B	L S L	17.2	Qa1		
	BOTTOM OF BORING AT 6 FEET PERCHED GROUNDWATER AT 1.5 FEET								



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

CLIENT

ERT
19782 MacArthur Blvd.
Suite 365
Irvine, CA 92715
Attn: Charles Keller

(2013)

LAB NO. F45427
REPORTED 03/10/88

SAMPLE Liquid & Soil

RECEIVED 02/25/88

IDENTIFICATION Pennwalt - Project #G812

BASED ON SAMPLE As Submitted

Soil
SB-1-35

Soil
SB-2-5

Hydrocarbons (418.1)

ND<10 mg/kg

617 mg/kg

Purgeable Organics EPA 8240:

* ND

* ND

* All compounds were None Detected. See attached list.

Liquid
SB-2-1.5

Hydrocarbons (418.1)

74.36%

Total Hydrocarbons (8015)

25.3 %

PCB's (Aroclor 1242)

38 ppm

Infrared

See attached

Purgeable Organics EPA 624:

2-Butanone

20.6 ppm

All other compounds were None Detected.
See attached list.

ASSOCIATED LABORATORIES

Edward S. Behare, Ph.D.

ESB/ql

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TESTING & CONSULTING

Chemical •
Microbiological •
Environmental •



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

CLIENT

ERT (2013)
19782 MacArthur Blvd.
Suite 365
Irvine, CA 92715

LAB NO. F45497
REPORTED 03/10/88

SAMPLE Soil
IDENTIFICATION Pennwalt, Orange, Proj. #G812
BASED ON SAMPLE As Submitted

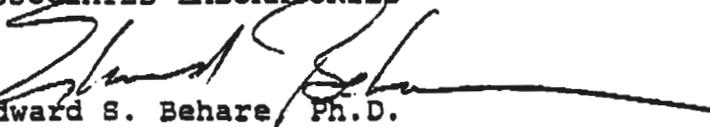
RECEIVED 02/25/88

Purgeable Organics
EPA Method 8240

SB-3-5	* None Detected
SB-4-5	* None Detected
SB-5-5	* None Detected
SB-1-10	* None Detected

* All compounds were None Detected. See attached list.

ASSOCIATED LABORATORIES


Edward S. Behare, Ph.D.

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •

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Client: ERT
Lab No.: F45497
Date: March 10, 1988

PURGEABLE ORGANICS
EPA METHOD 8240:

LIMITS OF DETECTION

Chloromethane	ND< 30.0	µg/kg
Bromomethane	ND< 30.0	µg/kg
Vinyl Chloride	ND< 30.0	µg/kg
Chloroethane	ND< 30.0	µg/kg
Methylene Chloride	ND< 50.0	µg/kg
Acetone	ND< 50.0	µg/kg
Acrolein	ND< 50.0	µg/kg
Acrylonitrile	ND< 50.0	µg/kg
Carbon Disulfide	ND< 5.0	µg/kg
1,1-Dichloroethene	ND< 5.0	µg/kg
1,1-Dichloroethane	ND< 5.0	µg/kg
Trans-1,2-Dichloroethene	ND< 5.0	µg/kg
Tetrahydrofuran	ND< 5.0	µg/kg
Trichlorofluoromethane	ND< 5.0	µg/kg
Freon-TF	ND< 5.0	µg/kg
Ethylene Dibromide	ND< 5.0	µg/kg
1,4-Dioxane	ND< 5.0	µg/kg
1,2-Dibromo-3-Chloropropane	ND< 5.0	µg/kg
Chloroform	ND< 5.0	µg/kg
1,2-Dichloroethane	ND< 5.0	µg/kg
2-Butanone	ND< 50.0	µg/kg
1,1,1-Trichloroethane	ND< 5.0	µg/kg
Carbon Tetrachloride	ND< 5.0	µg/kg
Vinyl Acetate	ND< 30.0	µg/kg
Bromodichloromethane	ND< 5.0	µg/kg
1,1,2,2-Tetrachloroethane	ND< 5.0	µg/kg
1,2-Dichloropropane	ND< 5.0	µg/kg
Trans-1,3-Dichloropropene	ND< 5.0	µg/kg
Trichloroethene	ND< 5.0	µg/kg
Chlorodibromomethane	ND< 5.0	µg/kg
1,1,2-Trichloroethane	ND< 5.0	µg/kg
Benzene	ND< 5.0	µg/kg
Cis-1,3-Dichloropropene	ND< 5.0	µg/kg
2-Chloroethylvinyl Ether	ND< 50.0	µg/kg
Bromoform	ND< 5.0	µg/kg
2-Hexanone	ND< 30.0	µg/kg
4-Methyl-2-Pentanone	ND< 30.0	µg/kg
Tetrachloroethane	ND< 5.0	µg/kg
Toluene	ND< 5.0	µg/kg
Chlorobenzene	ND< 5.0	µg/kg
Ethylbenzene	ND< 5.0	µg/kg
Styrene	ND< 5.0	µg/kg
Total Xylenes	ND< 5.0	µg/kg
M-Chlorotoluene	ND< 5.0	µg/kg
1,3-Dichlorobenzene	ND< 5.0	µg/kg
1,4-Dichlorobenzene	ND< 5.0	µg/kg
1,2-Dichlorobenzene	ND< 5.0	µg/kg



NorCal Engineering
SOILS AND GEOTECHNICAL CONSULTANTS
10571 CALLE LEE SUITE 155 LOS ALAMITOS, CA 90720
(714) 826-4231 (213) 267-0125
FAX (714) 826-2514

October 3, 1989

Project Number 2159-89

ENSR Constructors
19782 MacArthur Blvd., #36
Irvine, California 92715

Re: Inspection and Testing of Grading Operations - Tank Backfill located at 630 N.
Batavia Street in the City of Orange, California

Dear Sirs:

Pursuant to your request, compaction tests were obtained at the above-referenced location. Results of the compaction tests are attached and locations of these tests are shown on the accompanying plot plan.

All work was performed in accordance with requirements of the City of Orange, and with all present day standards of the Soils Engineering Industry.

All vegetation and demolition debris was stripped and removed from the fill area prior to the placement of any fill soils.

The existing low density soils were removed to competent natural ground, the exposed surface scarified, moisture conditioned and then recompacted to a minimum of 90% relative compaction.

Fill soils placed were compacted to a minimum of 90% of the laboratory standard in lifts not in excess of eight inches in thickness. The maximum depth of fill placed was \pm 7.0 feet.

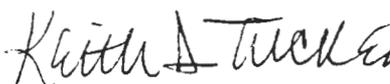
The relative compaction was determined by Sand Cone Method (ASTM: D-1556-82) and by the Drive Tube Method (ASTM: D-2937). The maximum density of the fill soils was obtained by the laboratory standard (ASTM: D-1557-78) and results are shown on Table I. Tests were performed a minimum of every 500 cubic yards placed and every 2.0 feet in depth of fill placed.

A rubber tire loader and track loader were utilized for compaction control. A water hose provided moisture control.

Chemical analysis of the backfill and underlying soils was not performed by NorCal Engineering.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,
NORCAL ENGINEERING



Keith D. Tucker
Project Engineer
R.G.E. 841



Troy D. Norrell
President

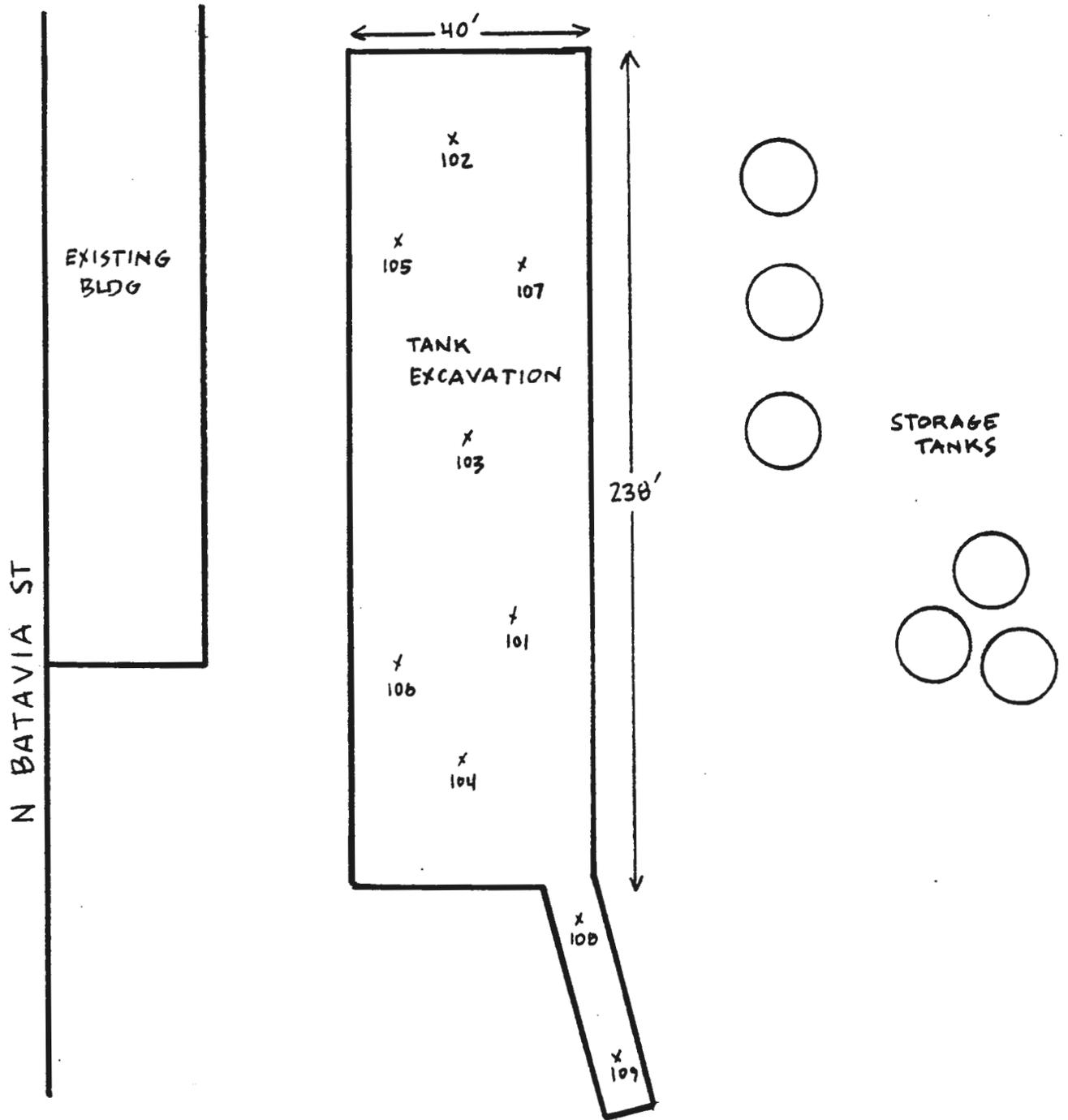
TABLE I
COMPACTION TESTS RESULTS

<u>Date of Test</u>	<u>Test No.</u>	<u>Depth*</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
9/20/89	101	7.0-7.5	12.2	116.3	95	I
	101A	5.0-5.5	12.7	116.1	95	I
	102	5.0-5.5	11.1	112.3	92	I
9/21/89	103	4.0-4.5	11.7	108.7	90	I
	104	3.0-3.5	10.8	112.9	93	I
	105	3.0-3.5	12.2	110.2	91	I
9/22/89	106	1.0-1.5	11.9	109.5	90	I
	107	1.0-1.5	12.2	112.8	92	I
	108	0.0-0.5	12.2	111.1	92	I
	109	0.0-0.5	11.8	112.6	92	I

*Depth below finish grade (in feet)

**Retest of failing test after area reworked

NorCal Engineering



APPROXIMATE LOCATION OF COMPACTION TEST

ENSR

Date: 9-25-89

H= Compaction Test

Scale: NTS

Project No.: 2159-89

NorCal Engineering
Soils and Geotechnical Consultants
10571 Calle Lee, Suite 155
Los Alamitos, California



JUL 15 1989

South Coast
AIR QUALITY MANAGEMENT DISTRICT
9150 FLAIR DRIVE, EL MONTE, CA 91731 (818) 572-6200

July 10, 1989

ENSR Corporation
19872 McArthur Blvd.
Irvine, CA 92715

Attention: Erik A. Nelson

Gentlemen:

RULE 1166 CONTAMINATED SOIL MITIGATION PERMIT

Reference is made to your Application (A/N 195633) received on June 9, 89 for a Rule 1166 Excavation Permit for the excavation and handling of VOC contaminated soil at various locations within the South Coast Air Quality Management District.

Please be advised that your Rule 1166 Plan has been granted approval under Rule 1166 of the Rules and Regulations of the SCAQMD and is subject to the following conditions.

PERMIT CONDITIONS:

1. THIS EXCAVATION SHALL BE CONDUCTED IN COMPLIANCE WITH ALL PLANS AND SPECIFICATIONS SUBMITTED WITH THIS APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
2. THIS EXCAVATION PERMIT IS VALID UNTIL **January 10, 90**. THIS PERMIT MAY BE RENEWED BY SUBMITTING AN ADDITIONAL RULE 1166 APPLICATION WITH THE CORRESPONDING FILING FEE, AND THE RECORDS REQUIRED TO BE KEPT UNDER CONDITION NO. 21 OF THIS PERMIT.
3. THE SCAQMD SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO EACH EXCAVATION COMMENCING AND WHEN IT IS COMPLETED. SUCH NOTIFICATIONS SHALL OCCUR PRIOR TO THE COMMENCEMENT AND WITHIN FIVE DAYS AFTER THE COMPLETION OF THE EXCAVATION BY CALLING (818) 572-6195.
4. THIS PERMIT IS VALID ONLY FOR THE REMOVAL, HANDLING, STOCKPILING, AND OR BACKFILLING OF A MAXIMUM OF 2000 CUBIC

5. VOC CONTAMINATED SOIL IS A SOIL WHICH REGISTERS 50 PPM OR MORE WHEN MEASURED WITH AN ORGANIC VAPOR ANALYZER (CALIBRATED AS HEXANE) AT A DISTANCE OF UP TO THREE INCHES ABOVE EXCAVATED AND EXPOSED SOIL.
6. EXCAVATION, SOIL HANDLING, STOCKPILING, AND BACKFILLING SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 6:00 PM AND 7:00 AM OR ON SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS.
7. EXCAVATION, SOIL HANDLING, STOCKPILING, AND BACKFILLING SHALL NOT BE CONDUCTED WHENEVER THE AVERAGE WIND SPEED IS GREATER THAN 15 M.P.H. AVERAGE (OVER 15 MINUTES) OR THE WIND SPEED INSTANTANEOUSLY EXCEEDS 25 M.P.H.
8. DURING EXCAVATION, SOIL HANDLING, STOCKPILING, AND BACKFILLING, ALL WORKING AREAS, EXCAVATED MATERIAL AND UNPAVED ROADWAYS SHALL BE WATERED DOWN UNTIL THE SURFACE IS MOIST AND THEN MAINTAINED IN A MOIST CONDITION TO MINIMIZE DUST.
9. PRIOR TO LOADING, TRUCK TRAILERS USED FOR THE TRANSPORT OF THE VOC CONTAMINATED SOIL SHALL BE LINED WITH AN IMPERMEABLE LINER. PRIOR TO LEAVING THE SITE, THE LOADED TRUCKS SHALL BE COMPLETELY COVERED WITH AN IMPERMEABLE COVER. THE IMPERMEABLE COVER/LINER SHALL BE HEAVY DUTY PLASTIC SHEETING OR OTHER EQUIVALENT MATERIAL APPROVED BY THE EXECUTIVE OFFICER.
10. THE EXTERIOR OF TRUCKS (INCLUDING THE TIRES) HAULING EXCAVATED MATERIAL SHALL BE CLEANED OFF PRIOR TO LEAVING THE EXCAVATION SITE.
11. ALL VOC CONTAMINATED SOIL THAT IS EXCAVATED, AND MATERIALS THAT ARE STOCKPILED SHALL BE IMMEDIATELY COVERED WITH HEAVY DUTY PLASTIC SHEETING AND ANCHORED DOWN SO AS TO PREVENT ANY VOCs FROM ESCAPING INTO THE ATMOSPHERE.
12. ALL PLASTIC SHEETING COVERING THE STOCKPILED SOIL SHALL BE INSPECTED, AND REPAIRED IF NEEDED, ON A DAILY BASIS TO MAINTAIN ITS INTEGRITY.
13. STOCKPILED SOIL SHALL BE REMOVED FROM THE SITE WITHIN 30 DAYS AFTER ALL VOC CONTAMINATED SOIL IS REMOVED FROM THE AFFECTED AREAS.
14. IF VOC CONTAMINATED SOIL IS TRANSPORTED OFF-SITE, WHEN LOADING IS COMPLETED AND DURING TRANSPORT, NO MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE TRUCK OR TRAILER WHICH WILL HAUL THE EXCAVATED MATERIAL.

15. EXCAVATION PIT(S) SHALL BE IMMEDIATELY AND COMPLETELY COVERED WITH HEAVY DUTY IMPERMEABLE PLASTIC SHEETING DURING PERIODS OF INACTIVITY INCLUDING BUT NOT LIMITED TO WEEKENDS, OVERNIGHT, AND HOLIDAYS.
16. THE EXCAVATION SHALL BE CONDUCTED IN 40 FT. X 40 FT. OR SMALLER SECTIONS TO MINIMIZE EXPOSURE OF SOIL POTENTIALLY CONTAMINATED WITH VOC.
17. DURING EXCAVATION, SOIL HANDLING, STOCKPILING, AND BACKFILLING, MONITORING FOR ORGANICS AS HEXANE USING AN ORGANIC VAPOR ANALYZER (OVA) OR OTHER MONITOR APPROVED BY THE SCAQMD SHALL BE CONDUCTED CONTINUOUSLY AT THE WORKING FACE MEASURED AT A DISTANCE OF UP TO 3 INCHES ABOVE EXCAVATED AND EXPOSED SOIL.
18. ALL MONITORS SHALL BE CALIBRATED DAILY USING A METHOD APPROVED BY THE DISTRICT.
19. A FINAL COVER SHALL BE PLACED OVER THE ENTIRE EXCAVATION SITE ONCE OPERATIONS HAVE CEASED SO AS TO PREVENT ANY VOCs FROM ESCAPING INTO THE ATMOSPHERE. THE COVER SHALL CONSIST OF AT LEAST SIX INCHES OF CLEAN SOIL OR ANY OTHER DISTRICT APPROVED COVER.
20. IF VOC CONTAMINATED SOIL IS ENCOUNTERED, THE DISTRICT ENFORCEMENT DIVISION SHALL BE NOTIFIED BY CALLING (818) 572-6195 WITHIN 24 HOURS OF DETECTION.
21. RECORDS SHALL BE KEPT OF THE FOLLOWING:
 - A. CONCENTRATIONS OF VOC GREATER THAN 50 PPM AS DETERMINED IN CONDITION NUMBER 17 AT EACH SITE, INCLUDING THE DATE AND TIME OF MEASUREMENT, SHALL BE RECORDED EVERY 15 MINUTES.
 - B. THE DAILY VOLUMES OF VOC CONTAMINATED SOIL THAT ARE EXCAVATED AND HANDLED AT EACH SITE.
 - C. DATES AND DAILY HOURS OF OPERATION, INCLUDING STARTING DATES AND DATES THAT ALL VOC CONTAMINATED SOIL HANDLING HAS BEEN COMPLETED FOR EACH SITE.

WITHIN THIRTY DAYS AFTER EXPIRATION OF THIS RULE 1166 CONTAMINATED SOIL MITIGATION PERMIT, A COPY OF ALL RECORDS LISTED ABOVE SHALL BE SUBMITTED TO THE SCAQMD. ONE COPY SHALL BE SUBMITTED TO THE ENFORCEMENT DIVISION, WITH THE SECOND COPY SUBMITTED TO THE ENGINEERING DIVISION.

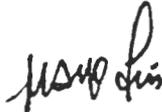
22. DURING EXCAVATION, SOIL HANDLING, STOCKPILING, AND BACKFILLING, IF A CONSIDERABLE NUMBER OF COMPLAINTS ARE RECEIVED, ALL WORK SHALL CEASE AND THE APPROVED MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. OTHER MITIGATION MEASURES WHICH ARE DEEMED APPROPRIATE BY SCAQMD PERSONNEL TO ABATE A NUISANCE CONDITION SHALL BE IMPLEMENTED UPON REQUEST.
23. IF A DISTINCT ODOR (LEVEL III OR GREATER) RESULTING FROM THE EXCAVATION IS DETECTED AT OR BEYOND THE PROPERTY LINE, THE EXCAVATION MUST CEASE AND APPROVED MITIGATION MEASURES IMPLEMENTED IMMEDIATELY. ODOR LEVELS WILL BE DETERMINED BY SCAQMD PERSONNEL OR ON-SITE SAFETY COORDINATOR IN THE ABSENCE OF SCAQMD PERSONNEL.
24. IF VOC CONTAMINATED SOIL IS TREATED ON-SITE AT THE SURFACE OR IN-SITU, ALL NECESSARY PERMITS SHALL BE OBTAINED FROM THE SCAQMD PRIOR TO CONSTRUCTION AND START-UP OF THE TREATMENT SYSTEM.
25. MITIGATION MEASURES, OTHER THAN THOSE INDICATED IN THESE CONDITIONS, WHICH ARE DEEMED APPROPRIATE BY SCAQMD PERSONNEL AS NECESSARY TO PROTECT THE COMFORT, REPOSE, HEALTH OR SAFETY OF THE PUBLIC, SHALL BE IMPLEMENTED UPON REQUEST.
26. THIS EXCAVATION PERMIT IS NOT VALID FOR EXCAVATION AND HANDLING OF CONTAMINATED SOILS AT LANDFILLS OR SITES USED FOR DISPOSAL OF REFUSE OR OTHER TYPES OF WASTE.
27. THIS PERMIT OR A COPY OF THIS PERMIT MUST BE PRESENT AT EACH OF THE EXCAVATION SITES.

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved 1166 Contaminated Soil Mitigation Plan.

If you have any questions concerning this permit, please call Saeed Ahdout at (818)572-6143.

Very truly yours,

William J. Dennison
Director of Engineering



Mark Liu, P.E.
Supervising Engineer

SA

cc: Carol Coy, Enforcement



**PENNWALT CORPORATION
CHEMICAL SPECIALTIES
DIVISION**

**Site Remediation
Final Report
630 N. Batavia Street
Orange, California**

Prepared by

**ENSR Constructors
Irvine, California**

December 15, 1989

ENSR Document Number: C89133



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APPENDICES

APPENDIX NO.

SITE PLAN

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1.0 INTRODUCTION

This report summarizes the field activities and analytical results for the site remediation activities which were conducted at Pennwalt's facility located at 630 North Batavia, Orange, California. Pennwalt engaged ENSR Constructors to execute this site remediation program of which field activities were initiated on June 13, 1989. The implementation of this remediation program, including the post excavation soil sampling and analysis program was closely coordinated with the County of Orange, Environmental Health; Waste Management Section (COEHWMS).

2.0 EXECUTIVE SUMMARY

A Soils Remediation Program was conducted at Pennwalt Corporation by ENSR Constructors, a Division of ENSR Corporation, in accordance with an appropriate Remediation Workplan. The purpose of this section is to briefly summarize the major issues which are presented in the report.

- o Work zones, site security, and safety equipment required were based on the site managers specific requests.
- o The volume of soil excavated from the areas of interest at the site amounted to approximately 2,000 cubic yards. This material was manifested and transported off-site by a registered hazardous waste hauler and was disposed of at an authorized waste management facility, USPCI, Inc. Grassy Mountain Facility, Clive, Utah.
- o Excavated materials were characterized properly prior to transportation for off-site disposal to an authorized waste management facility.



- o Soil excavation activities were conducted in accordance with the provisions of the excavation permit issued under Rule 1166 of the South Coast Air Quality Management District.
- o A post excavation sampling/analysis program was utilized to determine the extent of soil excavation required to achieve the appropriate criteria. This program was coordinated with the COEHWMS.
- o Excavated areas were backfilled with clean import soil and compacted to local and state specifications. Upon completion, all backfilled areas were paved with a 4" asphaltic material and slurry coated.

3.0 SITE PREPARATION

Permission was obtained by ENSR from Orange County Environmental Health Waste Management Section and SCAQMD to proceed with the site Remediation Work Plan. No onsite work was initiated until all applicable permits were in evidence at the job site. ENSR Constructors and subcontractors mobilized at Pennwalt's request on June 13, 1989, to initiate the soil excavation program.

3.1 Work Zones

The boundaries of the exclusion zone, contamination reduction zone and support zone were marked as specified by ENSR's onsite project manager.



3.2 Security - Barricades

ENSR erected caution tape and blinking barricades as needed at the outside perimeter of the excavated area. The outside fence of the Pennwalt facility was closed and locked at all times.

3.3 Safety Equipment

ENSR Constructors was required to ensure all safety equipment was provided as specified in the ENSR Field Manual.

4.0 SCOPE-OF-WORK

4.1 Plans and Permits

ENSR Constructors submitted a Remedial Action Plan and Health and Safety Plan to Pennwalt for review and approval. The Remedial Action Plan was approved by Pennwalt and submitted to OCEHWMS for review prior to the execution of this voluntary site remediation program.

4.2 Excavation

Soils which exhibited elevated concentration of the constituents of interest including total petroleum hydrocarbons were excavated. The volume of excavated soils was approximately 2000 cubic yards.



4.3 Stockpiling of Material

The excavated material identified as hazardous was placed in a preassigned designated stock pile area. The stockpiled material was covered with plastic sheeting to minimize any potential volatilization as required by SCAQMD Rule 1166. This material was properly characterized prior to transportation to an authorized off-site waste management facility.

4.4 Transportation

All excavated materials were manifested and transported by licensed waste haulers (Refer to Attached Manifests in Appendix A).

4.5 Disposal

All excavated materials were transported and disposed off-site at an authorized waste management facility; USPCI, located in Grassy Mountain, Utah (Refer to Attached Manifests in Appendix A).

Pennwalt utilized the required EPA identification number and State of California Board of Equalization Tax identification number prior to commencement of transportation and disposal of the excavated materials.

5.0 AIR QUALITY AND MONITORING CONTROL

During the excavation and material handling of the excavated soils, ENSR encountered fugitive Volatile Organic Compound (VOC) emissions. To minimize these fugitive VOC emissions, ENSR utilized onsite vapor control technology. The vapor control technology has been authorized by the South Coast Air Quality Management District (SCAQMD).



ENSR project manager adhered to Rule 1166 - "Volatile Organic Compound Emissions From Decontamination of Soil" as presented by SCAQMD (Refer to Appendix B).

The ENSR Project Manager utilized, as needed, at least one or a combination of the following approved onsite vapor control technologies:

- o Visqueen covering (Black polyethylene plastic)
- o Water spray covering
- o Temporary foam covering
- o Permanent foam covering

6.0 SAMPLING/ANALYSIS PROGRAM

Intermediate post-excavation samples were collected and analyzed to determine the appropriate extent of soil excavation. The final post-excavation sampling/analysis program was closely coordinated with Mr. Gary Zimmerman of the Waste Management Section of Orange County during his visits on August 31, 1989 and September 11, 1989. All post-excavation samples were submitted to a State Certified laboratory for analysis (Associated Laboratories and Del Mar Analytical). All samples were accompanied by a written chain-of-custody form. The requested turn around time was 24 to 48 hours, depending upon the analysis being conducted.



6.1 Soil Sampling/Analysis

The soil samples were analyzed as appropriate for one, or a combination of, the following compounds utilizing the appropriate analytical methodologies.

<u>Constituent(s)</u>	<u>EPA Method</u>
Total Recoverable Petroleum Hydrocarbons (TPH)	418.1
Total Petroleum Hydrocarbons (TPH)	8015.(Modified)
Polychlorinated Biphenyls (PCB's)	8080.
Volatile Organic Compounds (VOC)	8240.
Total Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX)	8020/5030.

6.1.1 Sampling Protocols

Soil samples were collected utilizing either a backhoe for deep intermediate post-excavation samples, or a small clean spade, or a hand shovel for final post-excavation samples. Soil samples were collected in clean 9 oz. glass jars with teflon-lined lids. Samples jars were numbered using a sequential numbering system.

6.2 Quality Assurance/Quality Control (QA/QC) Procedures

All samples were labeled and duly noted on chain-of-custody form (Refer to Appendix C). The sealed samples were immediately labeled and chilled in a pre-cooled ice chest containing ice. The interior of the ice chest was maintained at a temperature not exceeding four (4) degrees (centigrade). The samples were kept chilled within the ice chest for delivery within 24 hours to a California certified laboratory for chemical analyses (Refer to Appendix C).



6.2.1 Sample Containers

Sample containers consisted of clean glass jars varying in volume with zero headspace. Screw-on teflon-lined lids were used to reduce the potential reaction between potential constituents and the lids. After a sample was collected, the lid was secured, and sealed with tape. All samples were labeled with permanent markers on labels.

Label information was as follows:

1. Company name and address
2. Field identification number
3. Lab identification number
4. Date
5. Time sampled
6. Location
7. Collectors signature

6.2.2 Chain-of-Custody

Chain-of-custody forms were filled out each day for the samples collected and given to the designated Project Manager with the samples. These forms included the following (Refer to Appendix C).

1. Contact person and phone number
2. Client name and address
3. Site name and address
4. Lab number
5. Field number
6. Date sampled
7. Time sampled



6.2.2 Chain-of-Custody Continued

8. Type of sample
9. Priority ranking
10. Sample description and location
11. Number of containers
12. Analyses required
13. Field observations

6.3 Analytical Laboratories

ENSR utilized the following State Certified Laboratories:

- Associated Laboratories
806 North Batavia Street
Orange, California 92668

- Del Mar Analytical
18102 Sky Park South, Suite F
Irvine, California 92714

6.3.1 Analytical Methods

Analytical parameters for soil samples were as follows:

- **Total Recoverable Petroleum Hydrocarbons - EPA Method 418.1**
This analysis was performed by extracting the sample with Freon 113 and using IR absorption for hydrocarbon detection.
- **Volatile Organic Compounds (VOC) - EPA Method 8240**
This analysis was performed by Mass Spectrometry.
- **Polychlorinated Biphenyls (PCB's) - EPA Method 8080**
This analysis was performed by Gas Chromatography with Electron Capture Detection.



- o **Total Petroleum Hydrocarbons (TPH) - EPA Method 8015 Modified**
This analysis was performed by Gas Chromatography and Flame - Ionization Detection.
- o **Total Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) - EPA Method 8020 and 5030**
This analysis was performed by Gas Chromatography and Photo Ionization Detection.

6.3.2 Quality Assurance/Quality Control

The laboratory was responsible for providing internal QA/QC throughout the project.

Matrix spikes for selected organic compounds were performed by the state certified laboratory, in duplicate, on randomly selected samples. The percent recoveries were within recovery limits established by the EPA. The specific sample results of the matrix spikes and duplicates are provided in Appendix C).

6.4 Intermediate Post Excavation Soil Sampling

Upon completion of the initial soil excavation phase, intermediate post-excavation soil samples were collected. Soil sampling depths ranged from approximately 3 feet to 17.5 feet (below grade). A total of twenty (20) samples were collected, entered into proper chain-of-custody, and submitted to the analytical laboratory.

6.4.1 Sample Locations

Locations of the intermediate post-excavation sampling points are shown in Figures 1-1 and 1-2.



6.4.2 Analytical Results

Results of the Intermediate Post Excavation Soil Sampling program are presented in Table 1. The results indicated the presence of total petroleum hydrocarbons (EPA 418.1) and PCB's at levels which required additional excavation.

6.5 Final Post-Excavation Soil Sampling

Upon completion of the required additional soil excavation, final post-excavation soil samples were collected on July 18, August 23, 31, September 5, 11, 12, 1989. Soil sampling depths ranged from approximately 3 feet to 17.5 feet (below grade). A total of sixteen (16) additional soil samples were collected, entered into proper chain-of-custody, and submitted to the analytical laboratory. The final post-excavation soil sampling program was closely coordinated with Mr. Gary Zimmerman of the Waste Management Section of Orange County during his site visits(s) on August 31, 1989, September 11, 1989.

6.5.1 Sample Locations - Site Plan

Locations of the final post-excavation sampling points are shown on the attached Figures 1-3 and 1-4.

6.5.2 Analytical Results

The analytical results of the final post-excavation soil sampling program are presented in Table II. These results were reviewed with Mr. Gary Zimmerman and was deemed as acceptable for successful conclusion of the soil removal/clean-up program at the site. This information was confirmed by Pennwalt's letters of October 30 and 31, 1989, to the Waste Management Section of Orange County.



INTERMEDIATE POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

TABLE I

SAMPLE NAME	DATE SAMPLED	TPH	DEPTH
		EPA #418.1	
E-1	JUNE 89	37,200	48"
E-2	JUNE 89	342	48"
E-3	JUNE 89	575	84"
E-4	JUNE 89	230	48"
E-5	JUNE 89	240	48"
E-6	JUNE 89	4,060	72"
E-7	JUNE 89	5,940	24"
E-8	JUNE 89	205	48"
E-9	JUNE 89	ND	48"
E-10	JUNE 89	ND	48"
E-11	JUNE 89	ND	48"
E-12	JUNE 89	ND	48"
E-13	JUNE 89	ND	48"
E-14	JUNE 89	ND	48"
E-15	JUNE 89	19.7	204"
E-16	JUNE 89	5,377	84"
E-17	JUNE 89	ND	96"
E-18	JUNE 89	ND	96"



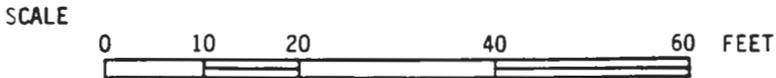
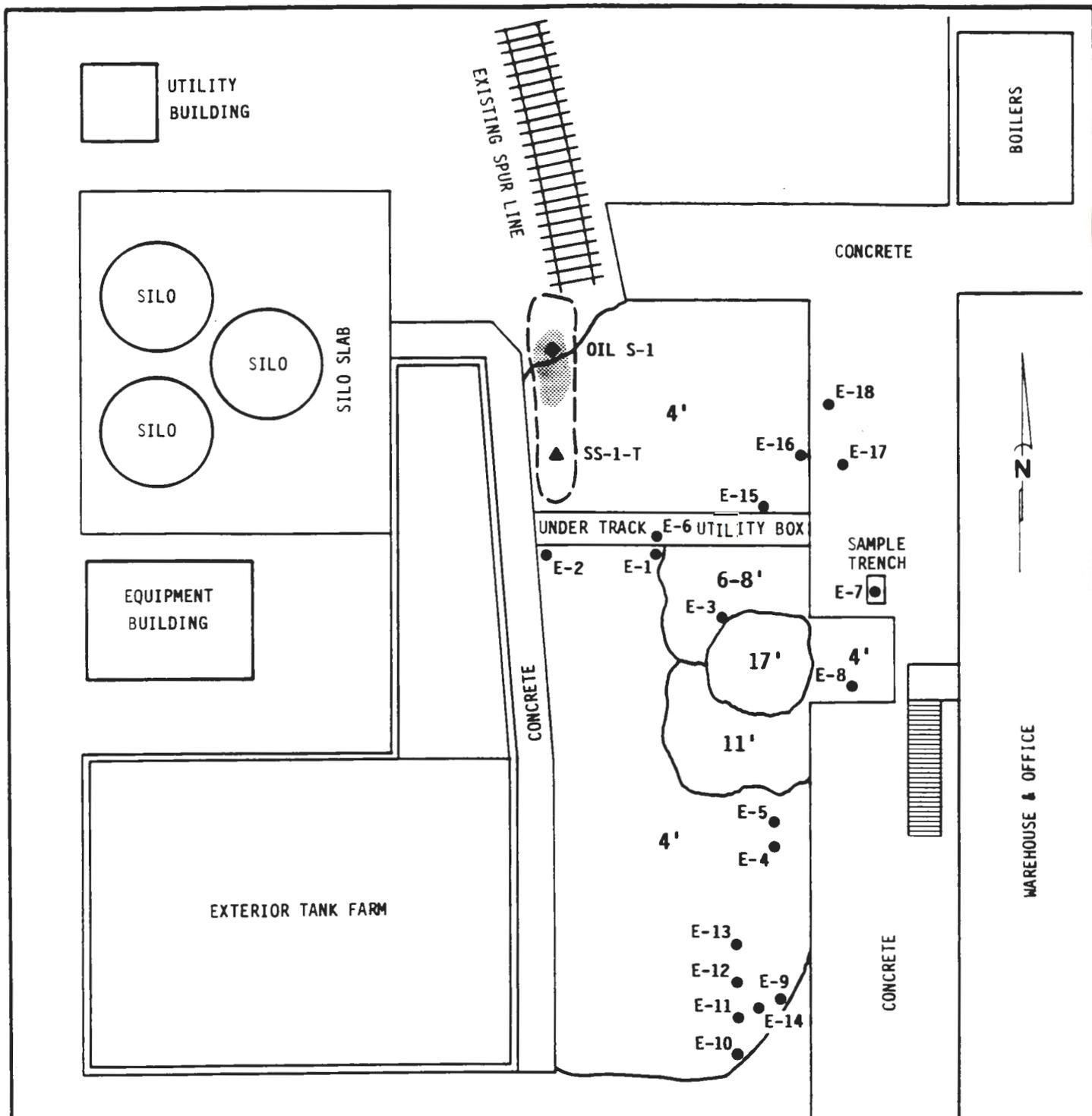
FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

TABLE II

SAMPLE NAME	DATE SAMPLED	TOTAL HYDROCARBONS PETROLEUM	PCB	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE	
		EPA # 418.1	EPA #8080	DH	DV
SWH-1	JULY 89	280	1.8	12"	12"
SWH-4	JULY 89	3,200	38	12"	12"
SWH-5	JULY 89	1,400	5.6	12"	12"
SWH-6	JULY 89	190	<0.1	12"	12"
SWJ-1	JULY 89	380	1.2	12"	12"
SWJ-2	JULY 89	30	1.5	12"	12"
SWJ-4	JULY 89	500	21	12"	12"
SEH-2	JULY 89	53	1.0	12"	30"
SEJ-1	JULY 89	58	<0.1	12"	30"
SWJ-3B	AUG 89	580	16	6"	30"
SEH-1A	AUG 89	---	8.9	6"	54"
SWH-2B	AUG 89	1,600	---	6"	30"
SWH-3B	AUG 89	1,700	---	6"	30"

DH : Depth - Horizontal

DV : Depth - Vertical

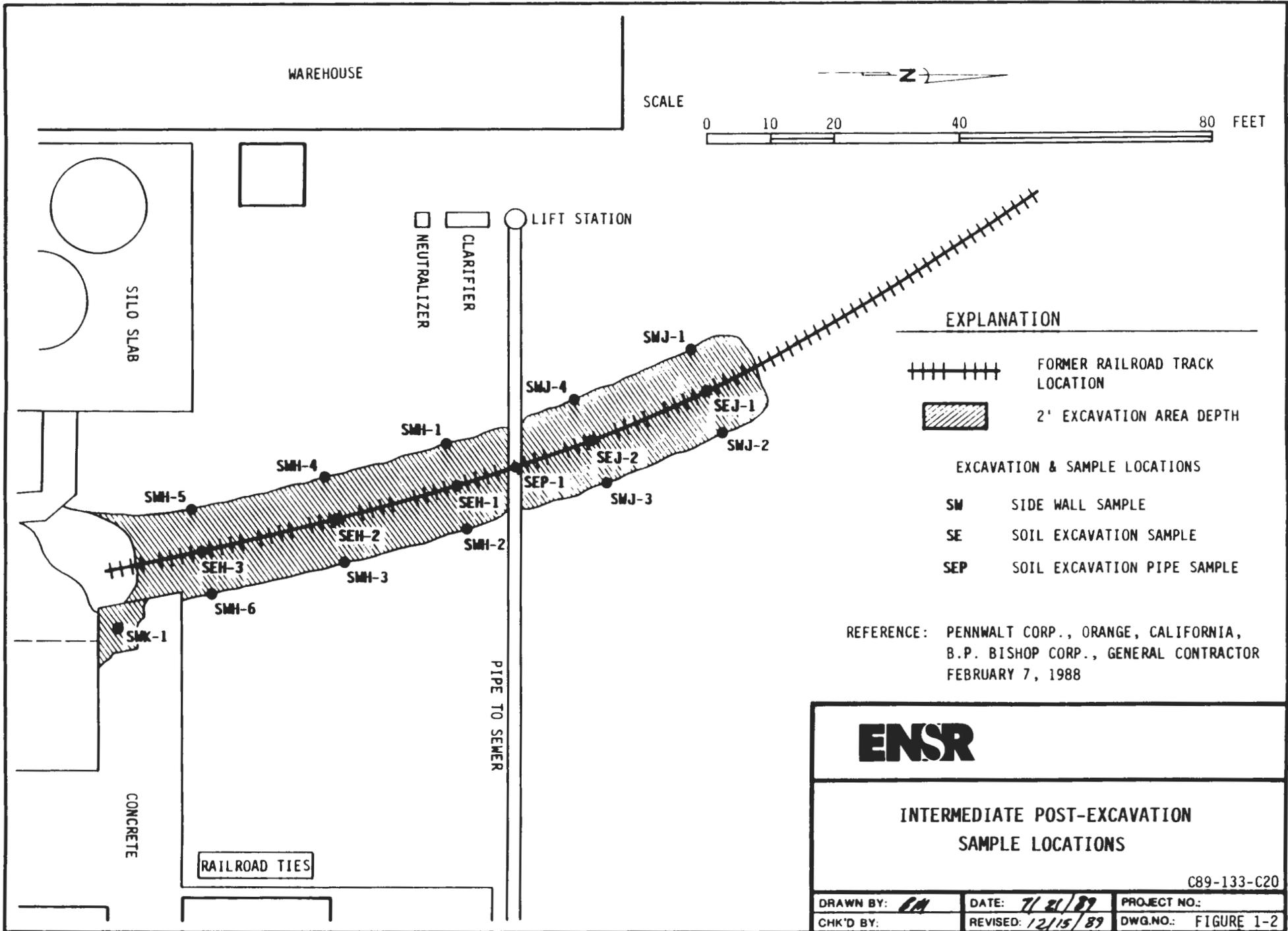


EXPLANATION

- 17' EXCAVATION AREA DEPTH
- E-18 EXCAVATION SAMPLE LOCATION
- SS-1-T SOIL SAMPLE LOCATION

REFERENCE: PENNWALT CORP., ORANGE, CALIFORNIA,
 B.P. BISHOP CORP., GENERAL CONTRACTOR
 FEBRUARY 7, 1988

ENSR		
INTERMEDIATE POST-EXCAVATION SAMPLE LOCATIONS		
C89-133-C20		
DRAWN BY: <i>AM</i>	DATE: <i>6/29/89</i>	PROJECT NO.:
CHK'D BY:	REVISED: <i>12/15/89</i>	DWG. NO.: FIGURE 1-1



EXPLANATION

-  FORMER RAILROAD TRACK LOCATION
-  2' EXCAVATION AREA DEPTH

EXCAVATION & SAMPLE LOCATIONS

- SW SIDE WALL SAMPLE
- SE SOIL EXCAVATION SAMPLE
- SEP SOIL EXCAVATION PIPE SAMPLE

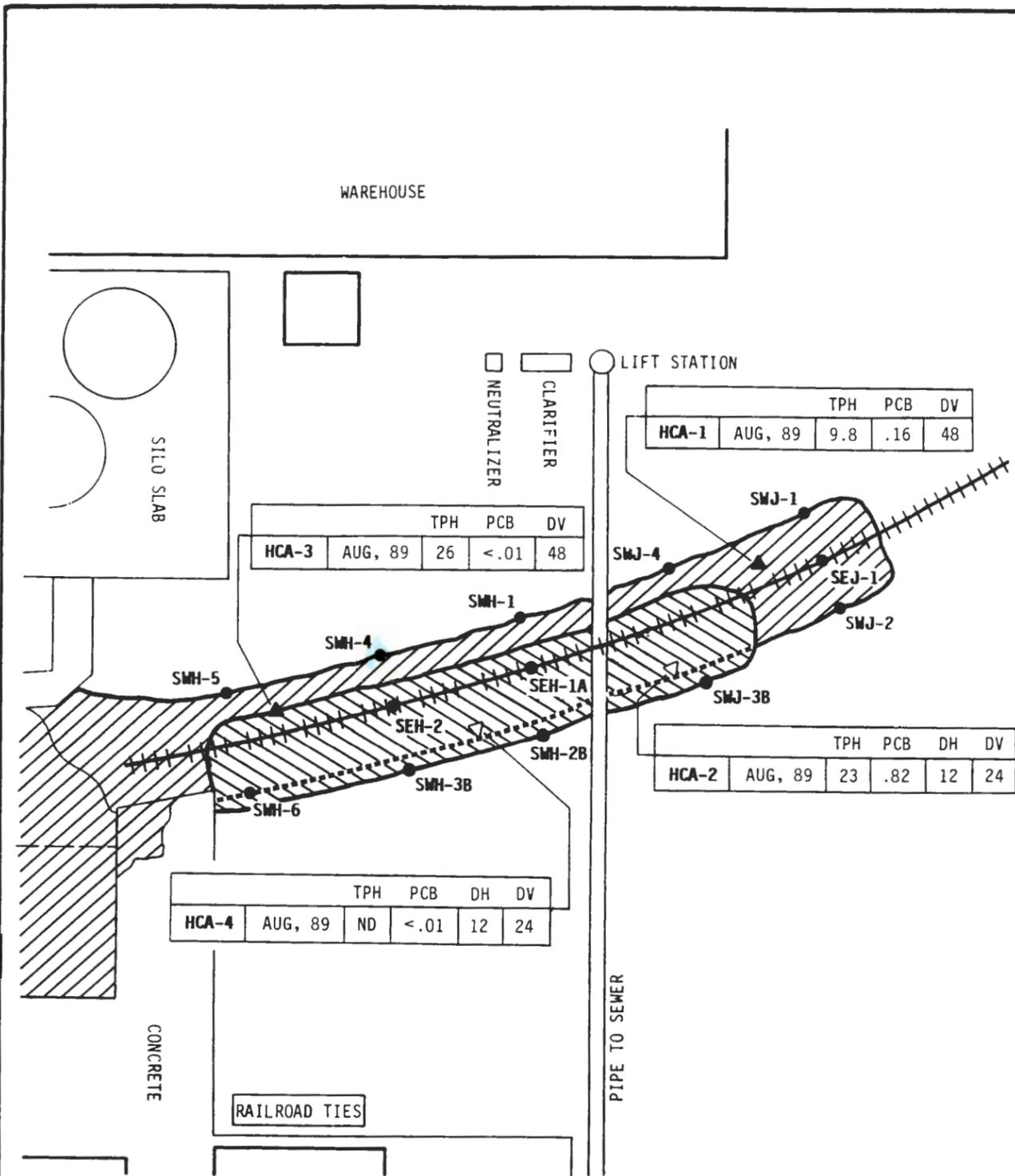
REFERENCE: PENNWALT CORP., ORANGE, CALIFORNIA,
 B.P. BISHOP CORP., GENERAL CONTRACTOR
 FEBRUARY 7, 1988

ENSR

**INTERMEDIATE POST-EXCAVATION
 SAMPLE LOCATIONS**

C89-133-C20

DRAWN BY: <i>EM</i>	DATE: <i>7/21/89</i>	PROJECT NO.:
CHK'D BY:	REVISED: <i>12/15/89</i>	DWG.NO.: FIGURE 1-2



	TPH	PCB	DH	DV
HCA-4	AUG, 89	ND	<.01	12 24

	TPH	PCB	DV
HCA-3	AUG, 89	26	<.01 48

	TPH	PCB	DH	DV
HCA-2	AUG, 89	23	.82 12	24

	TPH	PCB	DV
HCA-1	AUG, 89	9.8	.16 48

EXPLANATION

- +++ FORMER RAILROAD TRACK LOCATION
- EXCAVATION & SAMPLE LOCATIONS
- SW ADDITIONAL POST EXCAVATION SIDE WALL SAMPLE
- SE ADDITIONAL POST EXCAVATION SOIL SAMPLE-BOTTOM
- ▲ FINAL POST EXCAVATION SOIL SAMPLE-BOTTOM. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- △ FINAL POST EXCAVATION SOIL SAMPLE-SIDE WALL. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- DH DEPTH-HORIZONTAL
- DV DEPTH-VERTICAL
- TPH TOTAL PETROLEUM HYDROCARBONS PER EPA 418.1
- PCB EPA NO. 8080
- BTEX EPA NO. 8020 & 5030
- TPH-1 TOTAL PETROLEUM HYDROCARBONS PER EPA 8015 MOD.
- ND NON DETECTABLE

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

SAMPLE NAME	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	PCB	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE	
		EPA #418.1	EPA #8080	DH	DV
SWH-1	JULY 89	280	1.8	12"	12"
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SWH-5	JULY 89	1,400	5.6	12"	12"
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SEJ-1	JULY 89	58	<0.1	12"	30"
SWJ-3B	AUG 89	580	16	6"	30"
SEH-1A	AUG 89	--	8.9	6"	54"
SWH-2B	AUG 89	1,600	--	6"	30"
SWH-3B	AUG 89	1,700	--	6"	30"

NOTE: OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.



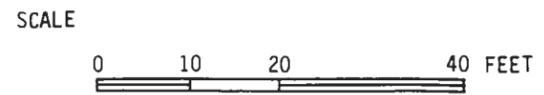
REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
 B.P. BISHOP CORP., GENERAL CONTRACTOR,
 FEBRUARY 7, 1988

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FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>BA</i>	DATE: 10/12/89	PROJECT NO.:
CHK'D BY:	REVISED: 10/30/89	DWG.NO.: FIGURE 1-3



SAMPLE NAME	DATE SAMPLED	TOTAL PETROLEUM HYDROCARBONS	APPROXIMATE DEPTH FROM ORIGINAL GROUND SURFACE
		EPA #418.1	
E-2	JUNE 89	342	48"
E-3	JUNE 89	575	84"
E-4	JUNE 89	230	48"
E-5	JUNE 89	240	48"
E-8	JUNE 89	205	48"
E-9	JUNE 89	ND	48"
E-10	JUNE 89	ND	48"
E-11	JUNE 89	ND	48"
E-12	JUNE 89	ND	48"
E-13	JUNE 89	ND	48"
E-14	JUNE 89	ND	48"
E-15	JUNE 89	19.7	204"
E-17	JUNE 89	ND	96"
E-18	JUNE 89	ND	96"

NOTE: OTHER INTERMEDIATE POST - EXCAVATION SAMPLES WERE COLLECTED AND WILL BE DESCRIBED IN THE FINAL REPORT.

SAMPLE NAME	DATE SAMPLED	TPH (PPM)	PCB (PPM)	DEPTH (INCHES)

REFERENCE: PENWALT CORP., ORANGE, CALIFORNIA
B.P. BISHOP CORP., GENERAL CONTRACTOR,
FEBRUARY 7, 1988

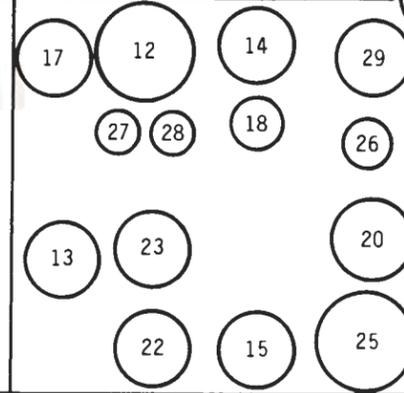
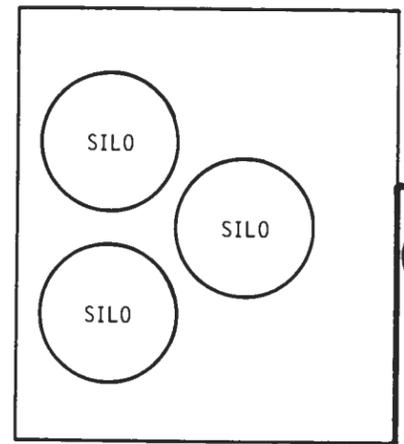
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FINAL POST-EXCAVATION SAMPLE LOCATIONS/RESULTS

C89-133-C20

DRAWN BY: <i>BM/AS</i>	DATE: 9/26/89	PROJECT NO.:	
CHK'D BY:	REVISED: 10/30/89	DWG. NO.:	FIGURE 1-4

WAREHOUSE



NOTE: FORMER TANK FARM (TANKS EMPTY & DECONTAMINATED)

EXCAVATED AREA
APPROX. 32" SQ. X 24" DEEP

	PCB	DV
TF2-C24	AUG, 89	0.74 24

	TPH	PCB	BTEX	DV
TF-2	AUG, 89	610	16	ND 12

	PCB	DV
TF2-A24	AUG, 89	0.44 24

	PCB	DV
HCA-11-A	SEPT, 89	1.8 24

	PCB	DV
TF2-B24	AUG, 89	0.47 24

	TPH	DV
HCA-10	SEPT, 89	120 48

	TPH	DV
HCA-9	SEPT, 89	25 48

	TPH	DV
HCA-8	SEPT, 89	28 48

	TPH	PCB	DV
HCA-7	AUG, 89	23 <0.01	96

	TPH	DH	DV
HCA-12	SEPT, 89	880 48	12

	TPH	DV
HCA-5A	SEPT, 89	1900 108

	TPH-1	DV
C-1-12	AUG, 89	ND 12

EXPLANATION

- E ADDITIONAL POST EXCAVATION SOIL SAMPLE-BOTTOM
- ▲ FINAL POST EXCAVATION SOIL SAMPLE-BOTTOM. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- △ FINAL POST EXCAVATION SOIL SAMPLE-SIDE WALL. REQUESTED BY ORANGE COUNTY WASTE MANAGEMENT SECTION.
- DH DEPTH-HORIZONTAL DV DEPTH-VERTICAL
- PCB EPA NO. 8080 ND NON DETECTABLE
- TPH TOTAL PETROLEUM HYDROCARBONS PER EPA 418.1
- TPH-1 TOTAL PETROLEUM HYDROCARBONS PER EPA 8015 MOD.
- BTEX EPA NO. 8020 & 5030

CONCRETE

MIXING & FILLING

CONCRETE

MIXING & LAB



7.0 HEALTH AND SAFETY

7.1 Health and Safety Site Work

All site work was carried out in accordance with the Health and Safety plans as provided in the ENSR Field Manual and ENSR Standard Operating Procedures.

ENSR provided the necessary equipment checks, site monitoring, and record keeping functions. The ENSR site safety officer was periodically onsite to monitor site conditions in coordination with ENSR's project manager.

7.2 Health and Safety Personnel

ENSR Constructors maintained a high standard of operational protocol relating to the health and safety precautions needed during the site remediation activities. All ENSR personnel onsite completed the 40 hour training requirements in accordance with the appropriate OSHA Standards specified in EPA 29 CFR 1910.120. Safety meetings were held at the beginning of every work day, during phases when new personnel were introduced to the site, and when site conditions warrant.

8.0 BACKFILL AND COMPACTION

8.1 Compaction Report

Upon Pennwalt's receipt of an oral approval on September 15, 1989, from Mr. Gary Zimmerman of the Waste Management Section of Orange County as to the successful completion of the soil excavation program, the excavated area was backfilled with certified clean soil. The soil was compacted to between 90-95 relative percent based upon ASTM D 1557 test procedures. (Compaction certificates



are provided in Appendix D).

8.2 Site Restoration

Upon completing the soil compaction, the backfilled area was properly graded and covered with 4" asphalt cover along with a new slurry coat.

9.0 **SUMPS AND CLARIFIERS**

9.1 Decommissioning Procedures

At the request of Pennwalt, ENSR completed the decommissioning of the onsite, 3 stage waste water clarifier (Refer to Appendix E).

The clarifier was triple rinsed with a high pressure water unit utilizing hot water at 1200 psi.

9.2 Transportation and Disposal

The rinsate and solids generated during the decommissioning process were collected, manifested, and transported for off-site disposal at an authorized waste management facility (Refer to Manifest No. 88179385 in Appendix E).

10.0 **LAB PACKING OF WASTE MATERIALS**

Due to the nature of Pennwalt's manufacturing of several petroleum based products, a number of partially consumed laboratory and manufacturing specialty chemicals required appropriate packaging prior to off-site disposal at an authorized waste management facility. ENSR utilized the following procedures for Lab Packing of residual chemicals.



10.1 General Requirements

Prior to transportation and disposal, an authorized off-site waste management facility received the general Lab Pack information from Pennwalt. The information included:

- (a) Chemical compound name (no trade name)
- (b) Material of inner containers, i.e. glass, plastic, metal, etc.
- (c) Amount of size of each waste package.
- (d) DOT hazardous class, if applicable.
- (e) DOT identification number, if applicable
- (f) EPA hazardous waste code, if applicable



10.2 Materials

<u>DRUM #</u>	<u># OF DRUMS</u>	<u>SIZE/TYPE OF DRUMS</u>
1-6/LP	6	30 gal Fiber
7	1	30 gal Steel
8	1	30 gal Steel
9	1	55 gal Steel
10	1	55 gal Steel
11	1	55 gal Steel
12	1	55 gal Steel
13-16	4	30 gal Steel
17	1	55 gal Steel
18	1	5 gal Poly
19	1	85 gal Steel
20	1	55 gal Steel
21	1	55 gal Steel
22	1	55 gal Steel
23	1	55 gal Steel
24	1	55 gal Steel
25	1	55 gal Steel
26-29/LP	4	30 gal Steel
30	4	55 gal Steel
31	1	55 gal Steel
32	1	55 gal Steel
33	1	55 gal Steel
34	2	55 gal Steel
35	1	55 gal Steel
36, 41	2	55 gal Steel
37	1	55 gal Steel
38	1	55 gal Steel
39	1	55 gal Steel
40	2	55 gal Steel
42	1	55 gal Steel
43/LP	1	30 gal Steel
44	2	55 gal Steel
45	8	5 gal Poly

ROMIC CHEMICAL CORPORATION 2081 BAY ROAD, E. PALO ALTO, CA

This facility received the following drums:

DRUM # 7, 9, 10, 11, 12, 21, 22, 24, 30, 31, 32, 33, 34 (2), 35, 36, 38, 40, 41 (2), 42 (2), and 44.

ROLLINS ENVIRONMENTAL SERVICES (LA) INC. 13351 SCENIC HIGHWAY,
BATON ROUGE LA 70807

This facility received the following drums:

DRUM # 1-6, 8, 9, 13-20, 23, 25-29, 37, 39, 43, 45



10.3 Packaging

All residual chemicals were packaged to meet DOT specifications for shipping. Waste streams were segregated into specific compatible categories:

- o Flammable liquid
- o Flammable solid
- o Combustible liquid
- o Corrosive material (acid/base)
- o Poison B
- o Oxidizer
- o Organic Peroxide
- o ORM-A
- o ORM-B
- o ORM-C
- o ORM-E

All Lab Packs were packed with an absorbent acceptable to the disposal facility. Lab Packs were packaged so that inside containers were transported without risk of breakage and with sufficient absorbent to absorb all liquid waste should breakage occur.

Lab Packs were packaged according to the following procedures:

1. A plastic liner was placed inside the lab pack.
2. A four to six inch (4-6") layer of absorbent material was placed on the Lab Pack bottom.
3. A single layer of containerized waste was placed on the absorbent packing with at least two inches (2") of absorbent between the containers and the Lab Pack sides.



Lab Packs were packaged according to the following Procedures (Continued):

4. The container layer was then covered with two to three inches (2-3") of absorbent.
5. The Lab Pack, was filled by alternating layers of containers and absorbent.
6. The Lab Pack was topped off with four to six inches (4-6") of absorbent material to complete the packaging.
7. The cover, gasket, ring, and closure was then affixed. The appropriate labels and packing slip were attached.

The maximum allowable volume per Lab Pack container size and type was restricted to meet safety requirements for the handling, transportation, and ultimate disposal/recycling.

<u>Container Type</u>	<u>Maximum Volume (Liquids)</u>	<u>Maximum Weight Solids</u>
30 gallon	10 gallons	75 lbs.
20 gallon	5 gallons	45 lbs.
16 gallon	4 gallons	36 lbs.
5 gallon	1 gallon	8 lbs.

The maximum size container accepted is a DOT approved 30 gallon plastic or fiber Lab Pack (not to exceed 19" in diameter). The maximum numbers of containers inside the Lab Pack are as follows:

- o 4 one-gallon glass containers per 30 gallon Lab Pack.
- o 4 one-gallon metal containers per 30 gallon Lab Pack.
- o 10 one-gallon metal containers per 30 gallon Lab Pack.
- o 15 one-pint metal containers per 30 gallon Lab Pack



The top of the Lab Pack was labeled with the following.

- o Generator's EPA I.D. Number and designated TSD Facility Number
- o Manifest Number
- o Lab Pack Number According to Packing List

10.4 Manifest Documentation

Pennwalt was required to complete the appropriate Waste Manifests and all other required shipping papers prior to shipment to the designated TSD facility (Refer to Appendix F).

10.5 Certification Letter

Materials Characterization Data Sheets were accompanied by a letter signed by the Generator, certifying that the manifested shipment complied with the designated TSD Pack Guidelines (Refer to Appendix F).

10.6 Lab Pack Acceptance

Pennwalt received approval for final shipment and receipt of Lab Packed material for appropriate disposal by the designated TSD facility (Refer to Appendix F). All Lab pack shipments were transported offsite to the authorized waste management facility on or before November 2, 1989.

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ATTACHMENT I - SOIL VAPOR SURVEY DETAILS

ATTACHMENT II - SOIL BORING DETAILS

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*Blended with
for industrial use.*

*KERNUS 1957
P.O.
UNCAW & BEYER
1957
Demand
since
1969*

RECEIVED

JUL 14 1989

HEALTH CARE AGENCY
Environmental Health

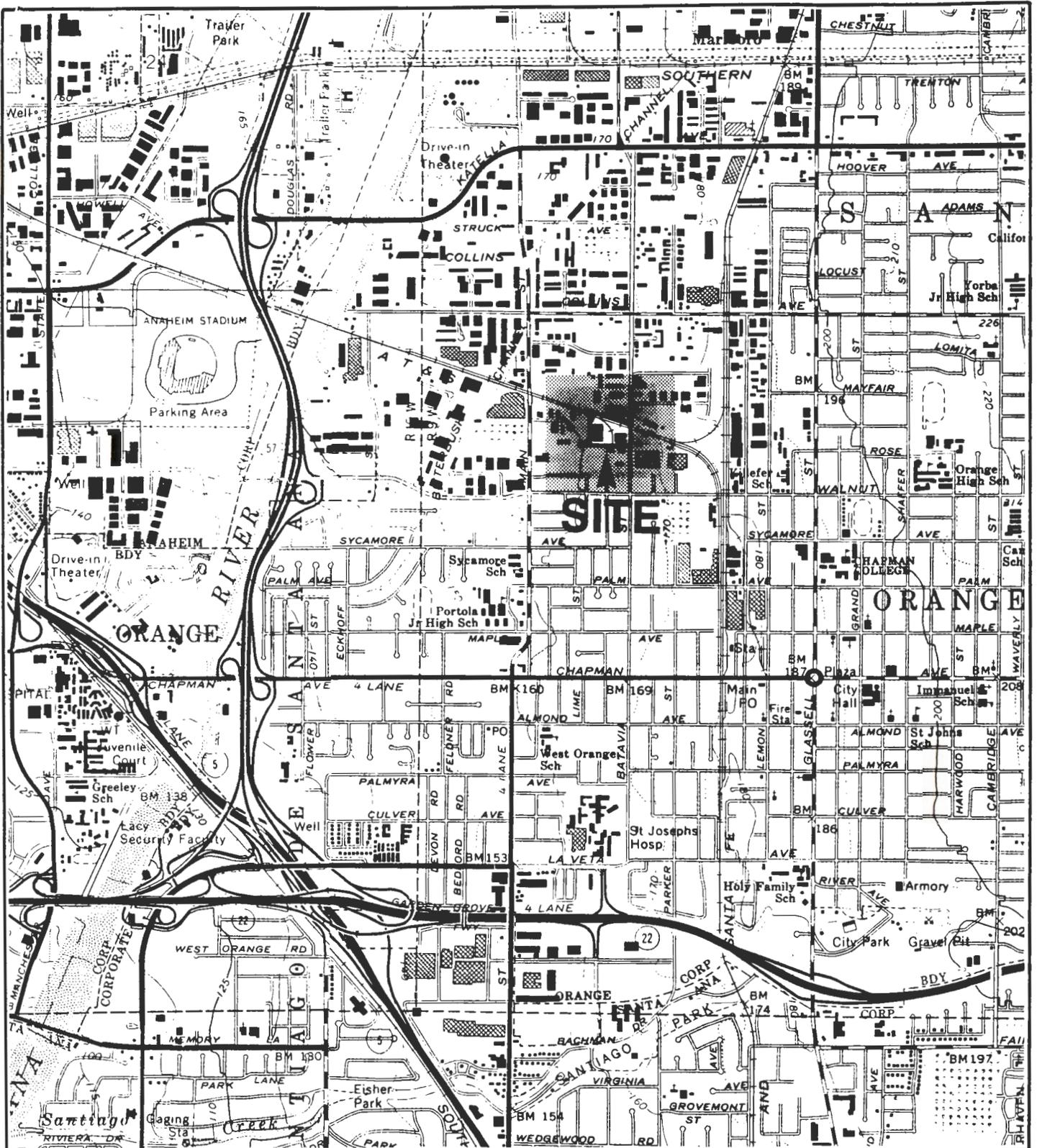


INTRODUCTION and PURPOSE

The purpose of this site assessment investigation was to evaluate the environmental conditions onsite, particularly with regards to potential impacts on soil or groundwater, if any. A site inspection was conducted and subsequent field investigations involved a soil vapor survey and a soil boring program including the collection of subsurface soil samples.

The site is located at 630 North Batavia Street, Orange, California, approximately three-quarters of a mile east of the Santa Ana River (see Figure 1). Santiago Creek, which flows west into the Santa Ana River, lies approximately one and one quarter mile south. The area around the site is a mixture of light industrial/commercial (predominantly north and west of the site), and residential (predominantly south of the site).

The subject site constituted a specialty chemical plant which produced a variety of cleaning products. Reportedly, manufacturing operations were discontinued in April, 1989. While the plant was in operation, raw materials were stored on site, predominantly in an above-ground tank farm located near the center of the site. Table 1 lists the materials stored by tank number and Figure 2 shows tank locations.



REFERENCE: USGS 7.5 MINUTE SERIES
 ANAHEIM QUADRANGLE 1981
 ORANGE QUADRANGLE 1981



SCALE



ENSR

SITE LOCATION MAP
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

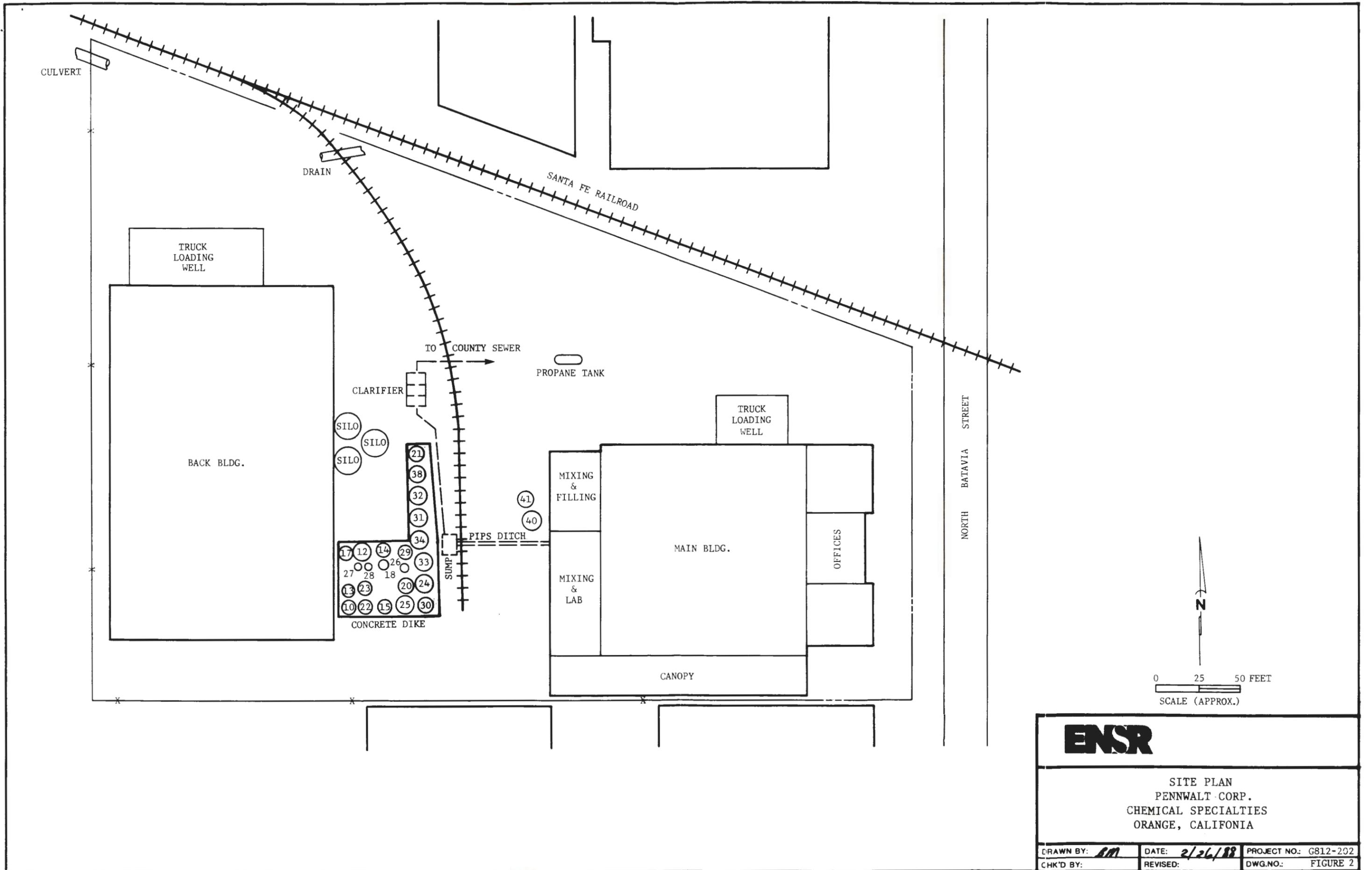
DRAWN BY: <i>BM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-202
CHK'D BY:	REVISED:	DWG.NO.: FIGURE 1

TABLE 1

Pennwalt Tank Capacities

No.	Tank	Composition	Size-Gal's.	Use
1	Wet Blends	Steel	3500 Jacket	Mix
2	Wet Blends	Steel	5000	Mix
3	Wet Blends	Steel	330	Premix
4	Wet Blends	SS	400 Portable & Jacket	Mix
5	Wet Blends	SS	1500	Mix
6	Wet Blends	SS	500	Mix
7	Not identified			
8	Wet Blends	SS	500	Mix
9	Wet Blends	SS	1500 Coil	Mix
10	Triethanolamine 85%	Steel	5000 Coil	RM0188
11	Wet Blends	SS	5000 Coil	Mix
12	KOH 50%	Fiberglass	5000	RM1962
13	Triton N101	Steel	5000	RM1528
14	"E" Silicate	Steel	5000 Coil	RM1374
15	Aromatic 150	Steel	8000	RM1589
16	Wet Blends	SS	1500	Mix
17	Hydrofluosilicic Acid 23%	Plastic	4200	RM0899
18	NaOH 50%	Steel	4000	RM1967
19	140 Solvent	Steel	2000	RM1089
20	Empty	Steel	6000	
21	Ucon ML5200	Steel	6000	RM1667
22	Empty	Steel	5000	
23	Empty	Steel	6000	
24	Empty	Steel	10,000 Coil	
25	Empty	Steel	10,000	
26	Mineral Seal Oil	Steel	1500	RM1193
27	Butyl Carbitol	Steel	1000	RM1128
28	Butyl Carbitol	Steel	1000	RM1128
29	Empty	Steel	10,000	
30	Naphtha Oil	Steel	10,000	RM0593
31	Naphtha Oil	Steel	10,000 Coil	RM0591
32	Indopol L50	Steel	10,000 Coil	RM2051
33	Empty	Steel	10,000 Coil	
34	Oil	Steel	10,000	RM0588
35	Not identified			
36	Not identified			
37	Kerosene	Steel	1000	RM0048
38	Indopol L14	Steel	10,000	RM2050
39	Wet Blends	SS	130 Portable	Mix
40	Waterbased Lubes	Steel	5000 Coil	Mix
41	Hold	Steel	14,000 Coil	Hold

*DIETHYLENE glycol monosulfate
ETNA.*



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SITE PLAN
 PENNWALT CORP.
 CHEMICAL SPECIALTIES
 ORANGE, CALIFORNIA

DRAWN BY: <i>AM</i>	DATE: <i>2/26/88</i>	PROJECT NO.: G812-202
CHK'D BY:	REVISED:	DWG. NO.: FIGURE 2



SITE DESCRIPTION

The following information was obtained during our site inspection in February, 1988. The facility is owned by Pennwalt Corporation, 3 Parkway, Philadelphia, Pennsylvania. The site address is 630 North Batavia Street, Orange, California, in the County of Orange. The site, which occupies approximately 3.37 acres, is covered nearly entirely with either buildings or pavement. The site constitutes a chemical specialties plant capable of manufacturing a large variety of metal preparation compounds and cleaners, and also includes warehousing and shipping facilities for products made both onsite and at other Pennwalt facilities, and office space for facility personnel. Reportedly, manufacturing operations were discontinued in April, 1989.

The property is bounded by Batavia Street on the east, a Santa Fe Railroad right-of-way on the north, and light industrial/commercial properties to the west and south. There are two buildings on the property; the main building which fronts Batavia Street contains approximately 24,000 square feet, about 4800 square feet of which is office space; and the back building contains approximately 26,000 square feet. Between the two buildings, there are a tank farm and a railroad siding.

The site has full access to public utilities. Electricity transmission lines are above ground. There are two electricity poles on the north side of the main building. Both have transformers attached. Southern California Edison has assured Pennwalt that no PCBs are used in the transformers.

A Santa Fe Railroad siding extends from the main track north of the property to the area between the main and back buildings. Where the buildings do not abut the property line

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on the north and portions of the west and south sides, there is chainlink fencing. The lot is essentially flat, with the rear slightly sloping to the northwest corner. Other depressions are designed to control surface water runoff.

Wastewater (primarily domestic) from the main building is discharged into the County sanitary sewer. A trench equipped with a grease trap in the main building discharges to the sanitary sewer.

Wastewater from the manufacturing processes and sumps around the back building is routed through a three-stage clarifier located outside of the northeast corner of the back building and is discharged into the County industrial sewer. There is a network of lines that direct wastewater collected in various drains, sumps, and trenches to the clarifier and eventually to the sewer system. Sumps are located in the bulk storage area, the truck wells, washdown shed, and certain process areas. Piping in the bulk storage area and wet processing area is complemented by trenches which are connected to the clarifier.

Drains
Sumps
TRENCHES
clarifier

A 10-inch culvert at the very northwest corner of the property provides a conduit to drain surface water runoff offsite. Most of the storm water runoff drains by gravity, although storm water collected in the truck well sump is pumped to the culvert. The culvert extends west 100 to 120 feet and discharges to the surface at the bottom of the railroad grading. A storm drain is located nearby.

LINED

Approximately 38 above-ground storage and mixing tanks are located between and in both of the buildings (see Table 1 for volumes and types of materials contained). There is a liquified petroleum gas (propane) tank containing approximately 300-gallons, on the north side of the main building, west of the loading dock.

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According to Donald Kossler, Plant Manager, asbestos is found in certain areas of the main building but that the back building, which was built in 1983, contains no asbestos. An asbestos survey was not requested to be conducted for this investigation.

The plant was capable of manufacturing over 150 different products in batch processes. Typical manufactured products included cutting oils, drawing compounds, acid and caustic cleaners, detergents, soaps, and related products. A number of mixers were used in the processing. Viscous raw materials were fluidized in an oven prior to mixing. A gas-fired boiler provided process steam. Many liquid raw materials were stored in tanks (see Table 1) and drums, while dry materials were stored in silos, drums and bags.

The raw materials were essentially consumed in the manufacturing process with no by-products. The only wastes generated were wastewater and oil tank and kettle wash out. As noted above, during operations the wastewater passed through a clarifier before it is discharged to the Orange County sewer system. Every three to four months, about 3,500 gallons of sludge which settled at the bottom of the clarifier was pumped out and transported by a registered hauler under manifest to an authorized waste management facility in Los Angeles.

The oil tank and kettle wash out were usually recycled back into the manufacturing process. Some residual oil was stored in 55-gallon drums and was transported by a registered hauler under manifest to an oil recycling facility.

what else was done?

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According to Donald Kossler, Plant Manager, the site was vacant land prior to the construction of an oil blending facility by Kerns, Inc. in 1957. Kerns blended lubricating oils for industrial use at the facility. ¹⁹⁵⁷

Pennwalt purchased the facility around 1969 and added grease production capabilities. Pennwalt's Keystone Division continued to manufacture greases at the site until 1986. At this time, a process hot oil heater was dismantled and removed from the site. At the time of the inspection the heater used Mobiltherm (a non-PCB oil). ¹⁹⁷⁹ Ten years ago the heater used an oil containing PCBs. It was reported by Pennwalt personnel that the PCB oil was removed and incinerated offsite, and the system was cleaned prior to replacement with a non-PCB oil. *Pennwalt Sweet '69*

A second building (the back building) was constructed in 1983. Detergents, cleaners, and soaps were made here along with metal preparation compounds. Waste generation did not significantly varied over the years; most raw materials were consumed in the manufacturing process with no by-products.

Current uses of adjacent properties include:

Katsis Autobody Crafts, 650 N. Batavia Street - autobody repair and painting.

Pacific Supply Corp., 675 N. Batavia Street - roofing supplies.

Hydroscape, 601 N. Batavia Street - landscaping and irrigation supplies.

Vacant (formerly Seatec Inflatable Systems), 600 N. Batavia Street - manufactured diving supplies.

Public Storage, 601 N. Main Street - retail storage spaces.

Arrowhead Drinking Water Co., 619 N. Main Street - distribution center for bottled drinking water.



There are a number of automotive repair shops in the vicinity. Additionally, two printing shops and a concrete construction company are located nearby.

According to the Orange County Water District, no drinking water production wells exist within 1,000 Feet of the site. A residential area consisting of single family houses and apartment buildings begins approximately 500 feet south of the site.

At the time of the inspection the facility held the following permits or registrations:

EPA Generator number : CAD 990667826
Orange County Hazardous Waste Program: Registration Number 465

Orange County Sanitation Districts: Class I Permit for Industrial Wastewater Discharge Number 2-561

GEOLOGY/HYDROGEOLOGY

The following discussion of site geology/hydrogeology is compiled from the following documents:

"Ground-water Geology of the Coastal Zone, Long Beach-Santa Ana Area, California", J.F. Poland, A.M. Piper, et al, 1956, U.S. Geological Survey Water Supply Paper 1109.

"Progress Report On Ground Water Geology of the Coastal Plain of Orange County", California Department of Water Resources, 1967.

The site lies near the western boundary of the Tustin Plain, where it merges with the Downey Plain. The near-surface deposits in this central lowland area are thought to be of Recent or Pleistocene age and are composed of alluvial sediments (mixtures of gravel/sand/silt/clay) derived predominantly from the Santa Ana Mountains. The area near the site is likely a combination of sediments deposited from



Santiago Creek and the Santa Ana River. Site specific geology is discussed below in Findings.

According to Steve Overman of the California Regional Water Quality Control Board, groundwater exists approximately 90 to 100 feet below surface elevation and generally flows to the southwest. Groundwater production in the area near the site includes the City of Orange wells #18 and #19 (see Figure 1, for approximate location). These wells are reported by the City of Orange Water Department, to be sealed to approximately 400 feet depth with perforated sections placed intermittently between that depth and their total depths of approximately 1000 feet.

FIELD INVESTIGATIONS

Our field investigations included two tasks. The first involved a soil vapor survey to screen the site for the presence of petroleum hydrocarbon vapors in the soils. The second task involved the collection and analysis of soil samples from selected borings.

Soil Vapor Survey

On February 23, 1988, a soil vapor survey was conducted at the subject site. The survey consisted of the placement of twenty-four (24) temporary soil vapor probes from which vapor samples were collected and analyzed onsite using a portable gas chromatograph. The locations of the vapor sampling are shown on Figure 3. Other details concerning the soil vapor survey are discussed in Attachment I, which also contains copies of the actual chromatograms.

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Soil Sampling

On February 25, 1988, five soil borings were excavated and soil samples collected. The locations of the borings are shown on Figure 3. Analytical results of soil samples analyzed are presented in Table 2. Attachment II contains a discussion of the details of the borings and copies of the boring logs. Boring SB-1 was excavated to a depth of approximately 65 feet. It had been planned that this boring would be drilled to ground water and that a monitoring well would be installed to sample ground water. The boring was terminated at the 65 foot depth because of drilling difficulty. It was subsequently felt by Pennwalt Corporation that installation of the monitoring wells would be unwarranted due to the depth to the uppermost aquifer (approximately 90 feet).

Boring SB-2 was terminated at 5 feet depth because the bottom of a gravel layer was encountered, saturated with an oil/water mixture. This perched liquid was believed to be limited to a depth of 5 feet, because a layer of clayey material was encountered below it.

*oil/water
mix @
5'
Areas
surrounding
SB-1, 2, 3 & 4
inter excavated
from 4 to 8'
below grade
no ground-
water*

FINDINGS

Soil Vapor Survey

Results from the soil vapor survey suggest that a low level of vapors exists in the soil at this site. However, an area between the old building (east side of site) and the existing tank farm was encountered during the survey with perched fluids (oil/water mixture). It was reported by site personnel that a former above-ground tank farm was located in this area (east of the present tank farm), and that a gravel bed had existed there as a base for the tanks. Boring SB-2 confirmed the presence of this gravel bed and the perched fluids in it.

Soil Borings and Sample Analyses

Boring logs for the five (5) borings are presented in Attachment II. To summarize, the site which has an asphalt concrete/cement concrete surface, is underlain by alluvial sediments composed predominantly of gravel, except for the upper ten to fifteen feet, which consisted of finer grained sediments, including sands, silts, and clays.

As mentioned above, a gravel bed was encountered in Boring SB-2, which was saturated with an oil/water mixture. This fluid was analyzed to evaluate the type of hydrocarbons it contained. Comparison of Methods 418.1 and 8015-M, suggest that the hydrocarbons in the lighter than water phase are composed of diesel fuel range hydrocarbons (approximately 30 %) and light oil range hydrocarbons (approximately 70 %). Additionally, low levels of PCB's (Aroclor 1242) and 2-Butanone (methyl-ethyl ketone) were detected in one sample of this fluid.

Soil samples collected from the other four borings were analyzed for Purgeable Organics by EPA Method 8240. None of these compounds were detected in any of the four (4) samples analyzed (see Table 2).

8120
?
CHLORINATED
hydrocarbons.
TPH
NONVOLATILE ORG.
① PCB's
oil/water
SB-2

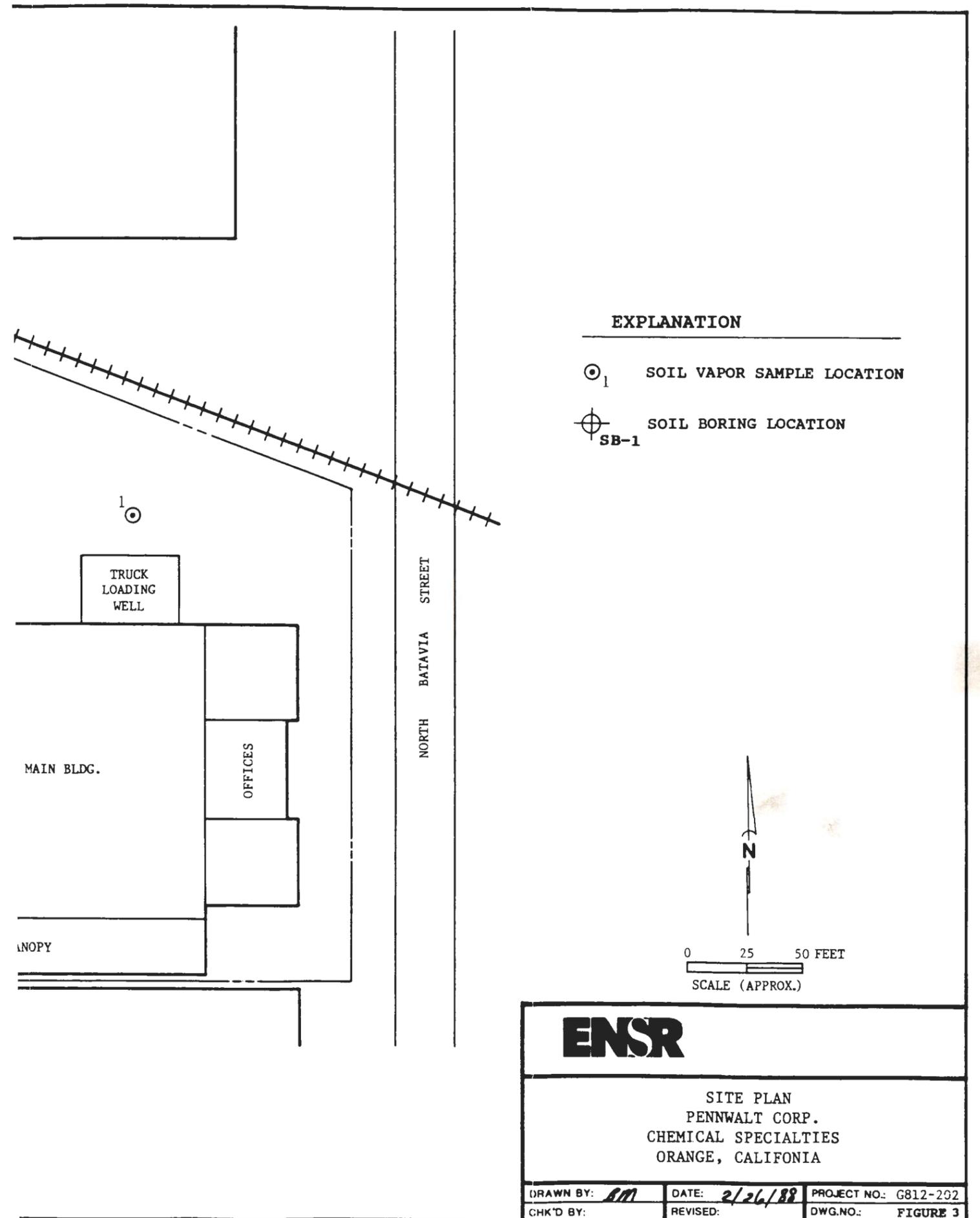
1. WHAT method was used to detect PCB's and why?
- ALSO, what extraction method was used.
2. WHICH samples were measured for PCB's + why?
- 3.

TABLE 2

Results from Laboratory Analyses of Soil Samples

SAMPLE	METHOD	RESULTS
65 SB-1-10'	8240	None detected
SB-1-35'	8240	None detected
"	418.1	None detected
SB-2-5'	8240	None detected
"	418.1	617 mg/kg hydrocarbons
SB-3-5'	8240	None detected
SB-4-5'	8240	None detected
SB-5-5'	8240	None detected

* please see attached laboratory report for list of compounds analyzed and detection limits.





CONCLUSIONS

Based on the results from the soil sample analyses, presented in Table 2, soil conditions do not appear in general to have been impacted except for the area around Boring SB-2. The extent of this impacted area is believed to be limited to the area of the former above-ground tank farm.

STUDY LIMITATIONS

This report, including the exhibits attached, describes the results of ENSR's initial investigation to evaluate the environmental conditions at the site particularly with regard to impacts to soil or groundwater, if any. The conclusions and recommendations stated herein represent the application of a variety of engineering and technical disciplines to material facts and conditions associated with the subject site, as a result of Phase I and Phase II investigations which were conducted during the period of February 17 through March 18, 1988. Many of these facts and conditions are subject to change over time; accordingly, the conclusions and recommendations must be viewed within this context. We also note that groundwater was not sampled.

ENSR has performed this site assessment in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Finally we note that this assessment was prepared for the use of Pennwalt Corporation. ENSR shall not be responsible for conditions or consequences arising from any matters related to the investigation and this report.



ATTACHMENT I

Soil Vapor Survey

Soil vapor mapping is conducted along discrete specified grid coordinates. For this site, grid points were set at approximately 50-foot centers across the center of the site. Sampling was also conducted on a less regimented pattern along the southern and northern sides of the site.

A total of 24 soil vapor probes were sampled during this survey. A specially-constructed 1/4-inch O.D. by 36-inch long stainless steel probe was manually inserted to a depth of 34 to 36 inches into the subsurface. The probe channel was partially predrilled using a portable 15-pound plunger bar or drop-hammer. The drop-hammer, consisting of a 4-1/2-foot-long, 1/2-inch-diameter steel rod, topped with a 15-pound steel weight, was used to drill to a soil depth of approximately 30 inches, the probe being hand-driven the remaining 4 to 6 inches into fresh, undisturbed soil. No cuttings or waste soil/water was generated by this procedure. Following installation, the probes were attached to the gas chromatograph utilizing a 1/8-inch O.D. by 5-foot length of Teflon gas tubing. Air blanks were taken through the probes and analyzed before the probes were inserted into the soil for each soil vapor analysis.

A Photovac Model 10S50 autocomputer portable gas chromatograph was used to analyze the vapor samples. The GC included a CSP-20M, 80/100 mesh analytical column (1/8-inch O.D. by 4-foot O.A.L.) and 6-inch CSP-20M precolumn. A special ultra-pure grade of compressed air was used as carrier gas.

Sampling Protocol

Soil vapor analysis was conducted per the following protocol:

- 1) Inserted stainless steel soil vapor probe to a depth of 34 to 36 inches. The probes were sampled no later than 30 to 60 minutes after installation.
- 2) The GC was standardized using a benzene gas standard (254 ppb) prior to conducting the survey.
- 3) "Air-blanks" were analyzed by sampling the background air through the sample probe before each vapor analysis.

PENNWALT: FEB 23, 1988

<u>Sample</u>	<u>Total</u>	<u>Air</u> (MVS)	<u>Net</u> (MVS)
1	3808	211	3597
1 (repeat)	4327	211	4116
2	4329	165	4164
3	1961	132	1829
4	6414	43	6371
5	4830	291	4539
6	4128	222	3906
7	8745	131	8614
8			*Significant soil moisture
9	8795	84	8711
10	15073	285	14788
11	16782	713	16069
11 (repeat)	7038	713	6325
12	4656	275	4381
13	9414	232	9182
14	43853	353	43500
15	15176	203	14973 *used second "air" reading
16	458	894	-436
16 (repeat)	278	894	-616
17	9565	15	9550
18	7836	13	7823 *used second "air" reading
19	30875	469	30406
20	18080	351	17729
21	126	502	-376
21 (repeat)	6	502	-496
22	111	78	33
23	7238	41	7197
24	3365	200	3165

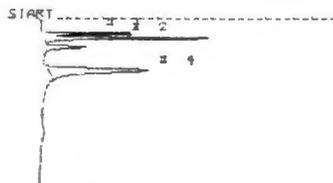
PHOTOVAC



STOP # 172.1
 SAMPLE RUN FEB 23 1988 7:11
 ANALYSIS # 2 PENNALT
 TEMPERATURE 27 AIR
 GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.1	7.2 μ S

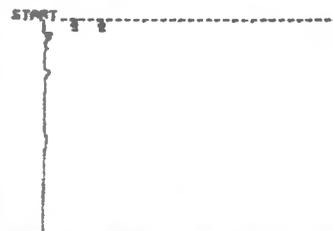
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STOP # 132.5
 SAMPLE RUN FEB 23 1988 7:19
 ANALYSIS # 3 PENNALT
 TEMPERATURE 27 STANDARD
 GAIN 10 25ATFB BENTENE

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.3	100.6 μ S
UNKNOWN	2	15.6	324.5 μ S
UNKNOWN	3	22.6	203.6 μ S
UNKNOWN	4	19.4	1.2 μ S

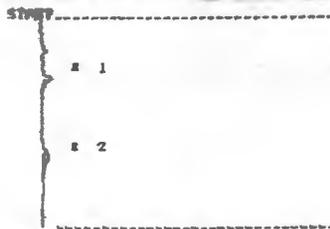
PHOTOVAC



STOP # 167.5
 SAMPLE RUN FEB 23 1988 7:18
 ANALYSIS # 4 PENNALT
 TEMPERATURE 27 AIR
 GAIN 10 POINT 1

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.1	22.6 μ S
UNKNOWN	2	15.9	17.7 μ S

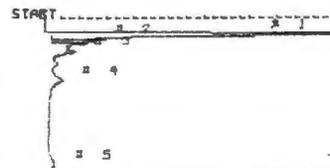
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STOP # 164.2
 SAMPLE RUN FEB 23 1988 8:41
 ANALYSIS # 5 PENNALT
 TEMPERATURE 29 AIR
 GAIN 10 POINT 1

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	46.5	32.5 μ S
UNKNOWN	2	110.3	113.3 μ S

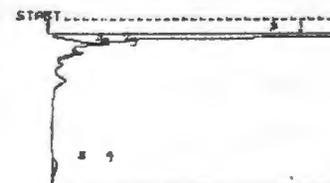
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STOP # 115.3
 SAMPLE RUN FEB 23 1988 8:56
 ANALYSIS # 6 PENNALT
 TEMPERATURE 29 ~~AIR~~
 GAIN 10 POINT 1

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.3	3.5 μ S
UNKNOWN	2	17.5	130.1 μ S
UNKNOWN	3	27.2	81.4 μ S
UNKNOWN	4	30.5	37.4 μ S

PHOTOVAC



STOP # 130.1
 SAMPLE RUN FEB 23 1988 8:53
 ANALYSIS # 7 PENNALT
 TEMPERATURE 29 SAMPLE REPEAT
 GAIN 10 POINT 1

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.7	9.1 μ S
UNKNOWN	2	26.2	85.8 μ S
UNKNOWN	4	115.4	141.3 μ S

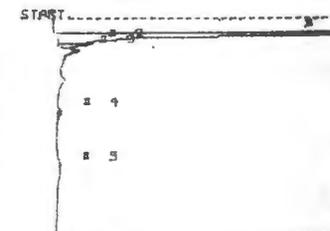
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STOP # 146.7
 SAMPLE RUN FEB 23 1988 3:9
 ANALYSIS # 8 PENNALT
 TEMPERATURE 24 AIR
 GAIN 10 POINT 2

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	17.1	136.8 μ S
UNKNOWN	2	117.2	23.5 μ S

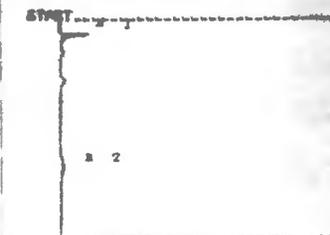
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STOP # 160.5
 SAMPLE RUN FEB 23 1988 3:8
 ANALYSIS # 9 PENNALT
 TEMPERATURE 29 SAMPLE
 GAIN 10 POINT 2

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.3	4.0 μ S
UNKNOWN	2	20.0	210.4 μ S
UNKNOWN	3	23.7	74.2 μ S
UNKNOWN	4	74.5	27.7 μ S
UNKNOWN	5	116.6	18.8 μ S

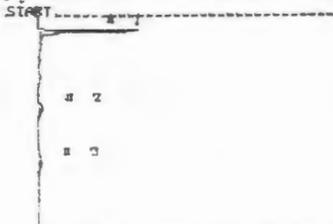
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STOP # 163.6
 SAMPLE RUN FEB 23 1988 3:12
 ANALYSIS # 10 PENNALT
 TEMPERATURE 29 AIR
 GAIN 10 POINT 3

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.0	113.8 μ S
UNKNOWN	2	116.0	13.8 μ S

PHOTOVAC



STOP # 165.7
 SAMPLE RUN FEB 23 1988 3:42
 ANALYSIS # 20 PENNAULT
 TEMPERATURE 25 AIR
 GAIN 10 POINT 0

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	11.3	529.9 μ US
UNKNOWN	2	23.1	58.5 μ US
UNKNOWN	3	114.8	7.6 μ US

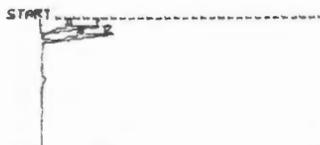
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STOP # 282.3
 SAMPLE RUN FEB 23 1988 3:48
 ANALYSIS # 21 PENNAULT
 TEMPERATURE 24 SAMPLE
 GAIN 10 POINT 0

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.1	11.3 μ US
UNKNOWN	2	23.3	43.1 μ US
UNKNOWN	3	114.5	117.2 μ US

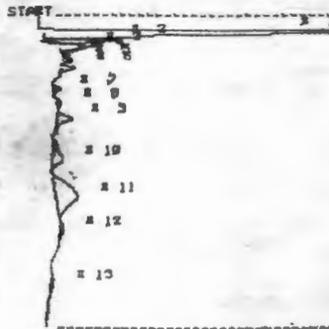
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STOP # 101.7
 SAMPLE RUN FEB 23 1988 3:52
 ANALYSIS # 22 PENNAULT
 TEMPERATURE 25 AIR
 GAIN 10 POINTS

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	2	17.6	84.3 μ US

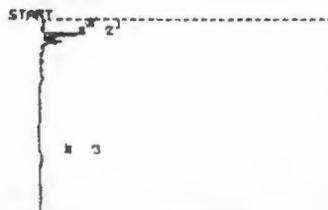
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STOP # 245.1
 SAMPLE RUN FEB 23 1988 3:58
 ANALYSIS # 23 PENNAULT
 TEMPERATURE 24 SAMPLE
 GAIN 10 POINTS

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	12.5	5.8 μ US
UNKNOWN	2	13.6	128.6 μ US
UNKNOWN	3	24.3	88.8 μ US
UNKNOWN	4	38.8	28.3 μ US
UNKNOWN	5	34.6	21.3 μ US
UNKNOWN	6	41.1	133.3 μ US
UNKNOWN	7	58.3	83.1 μ US
UNKNOWN	8	63.3	15.8 μ US
UNKNOWN	9	81.3	242.4 μ US
UNKNOWN	10	113.6	128.3 μ US
UNKNOWN	11	143.8	1.3 μ US
UNKNOWN	12	163.3	31.3 μ US
UNKNOWN	13	211.3	123.3 μ US

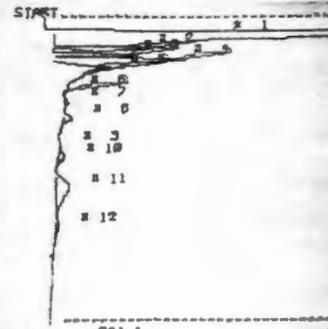
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STOP # 182.8
 SAMPLE RUN FEB 23 1988 10:10
 ANALYSIS # 24 PENNAULT
 TEMPERATURE 25 AIR
 GAIN 10 POINT 10

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	11.3	138.3 μ US
UNKNOWN	2	17.5	71.8 μ US
UNKNOWN	3	112.1	16.8 μ US

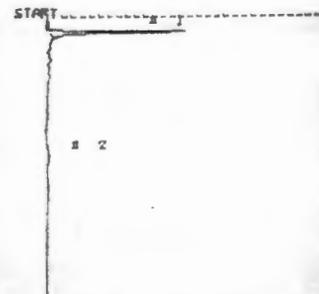
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STOP # 241.1
 SAMPLE RUN FEB 23 1988 10:14
 ANALYSIS # 25 PENNAULT
 TEMPERATURE 24 SAMPLE
 GAIN 10 POINT 10

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	13.5	18.7 μ US
UNKNOWN	2	24.8	1.2 μ US
UNKNOWN	3	38.4	788.1 μ US
UNKNOWN	4	34.8	1.3 μ US
UNKNOWN	5	48.3	116.4 μ US
UNKNOWN	6	57.1	12.2 μ US
UNKNOWN	7	67.5	17.5 μ US
UNKNOWN	8	88.3	127.4 μ US
UNKNOWN	9	101.6	7.4 μ US
UNKNOWN	10	111.2	123.1 μ US
UNKNOWN	11	138.1	211.6 μ US
UNKNOWN	12	185.7	48.8 μ US

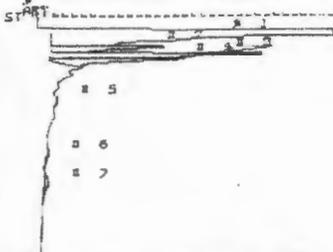
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STOP # 222.8
 SAMPLE RUN FEB 23 1988 10:13
 ANALYSIS # 26 PENNAULT
 TEMPERATURE 23 AIR
 GAIN 10 POINT 11

COMPOUND NAME	PEAK	R.T.	AREA/FTT
UNKNOWN	1	11.3	213.6 μ US

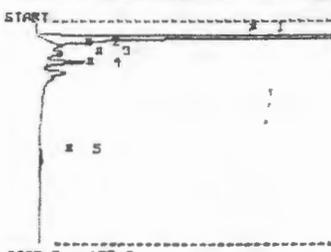
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STOP # 187.5
 SAMPLE RUN FEB 23 1988 10:13
 ANALYSIS # 27 PENNALT
 TEMPERATURE 28 POINT 11
 GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	13.3	12.3 US
UNKNOWN	2	24.4	1.2 US
UNKNOWN	3	30.2	1.3 US
UNKNOWN	4	33.2	1.2 US
UNKNOWN	5	66.5	15.7 µS
UNKNOWN	6	103.1	42.2 µS
UNKNOWN	7	131.3	123.3 µS

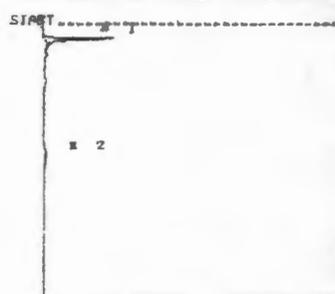
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STOP # 179.0
 SAMPLE RUN FEB 23 1988 10:14
 ANALYSIS # 30 PENNALT
 TEMPERATURE 25 SAMPLE
 GAIN 10 POINT 12

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.3	4.2 US
UNKNOWN	2	24.7	13.2 µS
UNKNOWN	3	32.5	263.0 µS
UNKNOWN	4	41.1	133.4 µS
UNKNOWN	5	103.7	33.3 µS

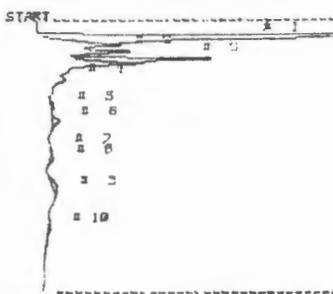
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STOP # 213.5
 SAMPLE RUN FEB 23 1988 10:33
 ANALYSIS # 33 PENNALT
 TEMPERATURE 25 AIR
 GAIN 10 POINT 14

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	11.3	342.4 µS
UNKNOWN	2	109.3	6.5 µS

PHOTOVAC



STOP # 212.3
 SAMPLE RUN FEB 23 1988 10:17
 ANALYSIS # 28 PENNALT
 TEMPERATURE 24 SAMPLE REPEAT
 GAIN 10 POINT 11

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.7	5.7 US
UNKNOWN	2	24.4	318.1 µS
UNKNOWN	3	30.1	686.7 µS
UNKNOWN	4	43.7	10.0 µS
UNKNOWN	5	67.7	27.2 µS
UNKNOWN	6	73.3	33.0 µS
UNKNOWN	8	103.1	60.0 µS
UNKNOWN	9	134.3	120.5 µS
UNKNOWN	10	162.3	38.5 µS

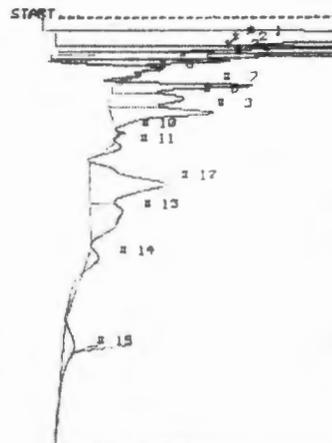
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STOP # 177.2
 SAMPLE RUN FEB 23 1988 10:20
 ANALYSIS # 31 PENNALT
 TEMPERATURE 25 AIR
 GAIN 10 POINT 13

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	11.8	232.3 µS

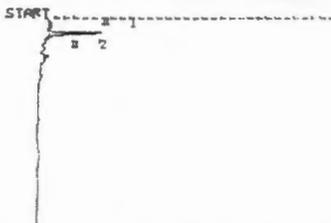
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STOP # 336.0
 SAMPLE RUN FEB 23 1988 10:43
 ANALYSIS # 34 PENNALT
 TEMPERATURE 24 SAMPLE
 GAIN 10 POINT 14

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	14.3	20.1 US
UNKNOWN	2	23.0	3.3 US
UNKNOWN	3	23.1	4.0 US
UNKNOWN	4	34.4	1.3 US
UNKNOWN	5	40.4	143.0 µS
UNKNOWN	6	45.2	42.0 µS
UNKNOWN	7	54.7	2.2 US
UNKNOWN	8	64.5	2.0 US
UNKNOWN	9	73.3	2.6 US
UNKNOWN	10	111.3	41.5 µS
UNKNOWN	11	102.0	324.4 µS
UNKNOWN	12	132.5	4.1 US
UNKNOWN	13	154.3	2.1 US
UNKNOWN	14	130.5	03.3 µS
UNKNOWN	15	262.1	300.6 µS

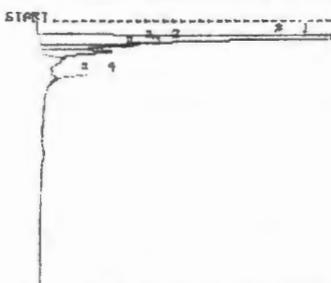
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STOP # 163.0
 SAMPLE RUN FEB 23 1988 10:21
 ANALYSIS # 23 PENNALT
 TEMPERATURE 25 AIR
 GAIN 10 POINT 12

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	11.3	230.3 µS
UNKNOWN	2	30.0	17.0 µS

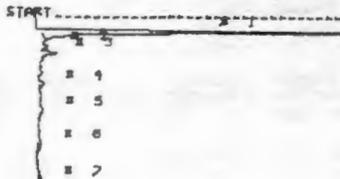
PHOTOVAC



STOP # 200.5
 SAMPLE RUN FEB 23 1988 10:34
 ANALYSIS # 32 PENNALT
 TEMPERATURE 25 SAMPLE
 GAIN 10 POINT 13

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.0	7.3 US
UNKNOWN	2	13.0	804.0 µS
UNKNOWN	3	24.2	040.0 µS
UNKNOWN	4	44.0	10.1 µS

PHOTOVAC



STOP # 136.2
 SAMPLE RUN FEB 23 1988 10:38
 ANALYSIS # 35 PENNALT
 TEMPERATURE 23 AIR
 GAIN 10 POINT 15

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	11.7	2.8 US
UNKNOWN	2	23.8	8.7 μS
UNKNOWN	3	28.7	88.3 μS
UNKNOWN	4	33.7	12.2 μS
UNKNOWN	5	74.5	18.8 μS
UNKNOWN	6	101.3	32.5 μS
UNKNOWN	7	123.8	13.3 μS

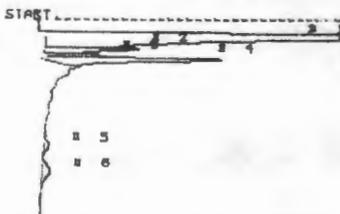
PHOTOVAC



STOP # 138.3
 SAMPLE RUN FEB 23 1988 10:32
 ANALYSIS # 36 PENNALT
 TEMPERATURE 27 AIR
 GAIN 10 POINT 15

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	11.8	283.7 μS

PHOTOVAC



STOP # 135.3
 SAMPLE RUN FEB 23 1988 10:55
 ANALYSIS # 37 PENNALT
 TEMPERATURE 27 SAMPLE
 GAIN 10 POINT 15

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	13.3	11.8 US
UNKNOWN	2	23.3	1.8 US
UNKNOWN	3	28.5	354.7 μS
UNKNOWN	4	31.7	1.7 US
UNKNOWN	5	33.8	87.1 μS
UNKNOWN	6	113.3	235.8 μS

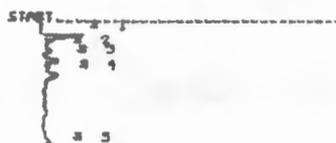
PHOTOVAC



STOP # 136.1
 SAMPLE RUN FEB 23 1988 10:53
 ANALYSIS # 38 PENNALT
 TEMPERATURE 27 AIR
 GAIN 10 POINT 10

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	11.8	881.2 μS
UNKNOWN	2	31.4	18.8 μS

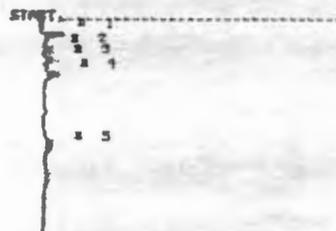
PHOTOVAC



STOP # 143.2
 SAMPLE RUN FEB 23 1988 11:12
 ANALYSIS # 33 PENNALT
 TEMPERATURE 27 SAMPLE
 GAIN 10 POINT 10

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.1	288.8 μS
UNKNOWN	2	23.5	11.8 μS
UNKNOWN	3	31.6	28.6 μS
UNKNOWN	4	43.8	12.8 μS
UNKNOWN	5	33.5	187.8 μS

PHOTOVAC



STOP # 187.7
 SAMPLE RUN FEB 23 1988 11:13
 ANALYSIS # 18 PENNALT
 TEMPERATURE 27 SAMPLE REPEAT
 GAIN 10 POINT 10

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	18.1	188.3 μS
UNKNOWN	2	23.8	8.7 μS
UNKNOWN	3	31.8	18.3 μS
UNKNOWN	4	43.2	38.3 μS
UNKNOWN	5	33.8	124.8 μS

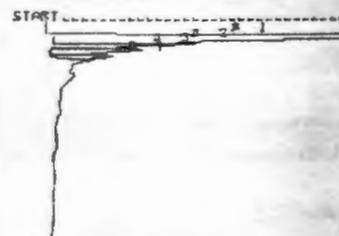
PHOTOVAC



STOP # 118.8
 SAMPLE RUN FEB 23 1988 11:18
 ANALYSIS # 11 PENNALT
 TEMPERATURE 27 AIR
 GAIN 10 POINT 17

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.8	18.1 μS

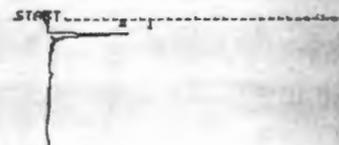
PHOTOVAC



STOP # 181.2
 SAMPLE RUN FEB 23 1988 11:12
 ANALYSIS # 42 PENNALT
 TEMPERATURE 26 SAMPLE
 GAIN 10 POINT 17

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	12.8	7.8 US
UNKNOWN	2	18.7	1.7 US
UNKNOWN	3	23.3	1.8 US
UNKNOWN	4	28.3	383.3 μS

PHOTOVAC



STOP # 115.6
 SAMPLE RUN FEB 23 1988 11:19
 ANALYSIS # 43 PENNALT
 TEMPERATURE 28 AIR
 GAIN 10 POINT 18

COMPOUND NAME	PEAK	R.T.	AREA/FTD
UNKNOWN	1	11.7	428.5 μS

PHOTOVAC



STOP # 33.2
 SAMPLE RUN FEB 23 1988 11:12
 ANALYSIS # 14 PENNALT
 TEMPERATURE 28 AIR
 RAIN 18 POINT 18

COMPOUND NAME	PEAK	R.T.	AREA/PTT
UNKNOWN	1	11.3	15.4 μ S

PHOTOVAC



STOP # 162.0
 SAMPLE RUN FEB 23 1988 11:21
 ANALYSIS # 15 PENNALT
 TEMPERATURE 28 SAMPLE
 RAIN 18 POINT 18

COMPOUND NAME	PEAK	R.T.	AREA/PTT
UNKNOWN	1	12.6	7.2 US
UNKNOWN	2	18.3	593.3 μ S
UNKNOWN	3	23.1	32.4 μ S

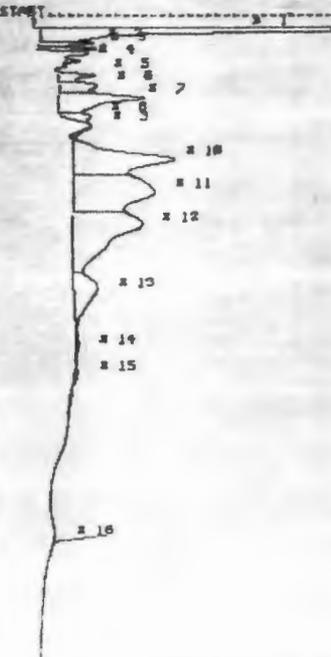
PHOTOVAC



STOP # 151.6
 SAMPLE RUN FEB 23 1988 11:24
 ANALYSIS # 16 PENNALT
 TEMPERATURE 28 POINT 13
 RAIN 18

COMPOUND NAME	PEAK	R.T.	AREA/PTT
UNKNOWN	1	11.4	463.6 μ S

PHOTOVAC



STOP # 503.5
 SAMPLE RUN FEB 23 1988 11:38
 ANALYSIS # 17 PENNALT
 TEMPERATURE 28 SAMPLE
 RAIN 18 POINT 13

COMPOUND NAME	PEAK	R.T.	AREA/PTT
UNKNOWN	1	12.1	6.7 US
UNKNOWN	2	22.2	522.1 μ S
UNKNOWN	3	26.5	238.8 μ S
UNKNOWN	4	36.1	182.5 μ S
UNKNOWN	5	47.3	523.6 μ S
UNKNOWN	6	56.7	863.3 μ S
UNKNOWN	7	66.1	2.4 US
UNKNOWN	8	68.5	333.6 μ S
UNKNOWN	9	87.8	184.2 μ S
UNKNOWN	10	113.3	4.7 US
UNKNOWN	11	133.4	6.3 US
UNKNOWN	12	165.3	6.1 US
UNKNOWN	13	216.8	1.8 US
UNKNOWN	14	261.5	63.3 μ S
UNKNOWN	15	287.5	187.2 μ S

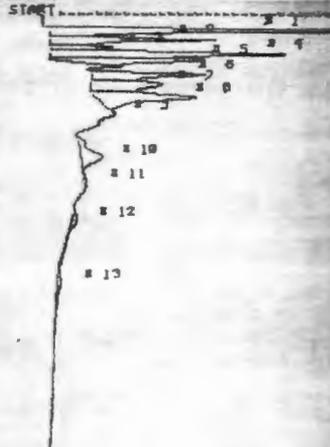
PHOTOVAC



STOP # 283.2
 SAMPLE RUN FEB 23 1988 11:41
 ANALYSIS # 18 PENNALT
 TEMPERATURE 26 AIR
 RAIN 18 POINT 28

COMPOUND NAME	PEAK	R.T.	AREA/PTT
UNKNOWN	1	17.8	228.8 μ S
UNKNOWN	2	23.3	76.3 μ S
UNKNOWN	3	114.8	88.1 μ S
UNKNOWN	4	288.8	15.3 μ S

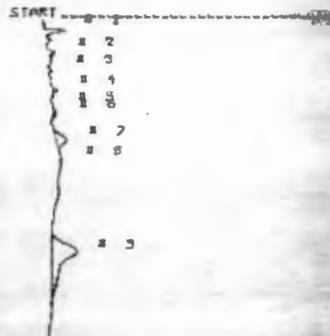
PHOTOVAC



STOP # 348.7
 SAMPLE RUN FEB 23 1988 11:48
 ANALYSIS # 19 PENNALT
 TEMPERATURE 27 SAMPLE
 RAIN 18 POINT 28

COMPOUND NAME	PEAK	R.T.	AREA/PTT
UNKNOWN	1	12.1	4.6 US
UNKNOWN	2	28.2	2.8 US
UNKNOWN	3	28.4	433.8 μ S
UNKNOWN	4	31.3	2.3 US
UNKNOWN	5	36.1	1.6 US
UNKNOWN	6	48.1	1.6 US
UNKNOWN	7	56.1	1.6 US
UNKNOWN	8	66.3	2.2 US
UNKNOWN	9	73.3	48.1 μ S
UNKNOWN	10	113.8	832.4 μ S
UNKNOWN	11	133.7	35.3 μ S
UNKNOWN	12	162.3	114.5 μ S
UNKNOWN	13	212.5	112.4 μ S

PHOTOVAC



STOP # 827.1
 SAMPLE RUN FEB 23 1988 11:54
 ANALYSIS # 20 PENNALT
 TEMPERATURE 28 AIR
 RAIN 18 POINT 21

COMPOUND NAME	PEAK	R.T.	AREA/PTT
UNKNOWN	1	11.3	182.7 μ S
UNKNOWN	2	28.2	17.8 μ S
UNKNOWN	4	58.1	53.8 μ S
UNKNOWN	6	78.7	36.1 μ S
UNKNOWN	7	127.4	233.6 μ S
UNKNOWN	8	113.3	18.4 μ S
UNKNOWN	9	186.1	1.4 US

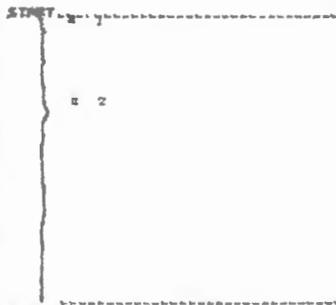
PHOTOVAC



STOP # 200.3
 SAMPLE RUN FEB 23 1988 11:58
 ANALYSIS # 51 PENNALT
 TEMPERATURE 23 SAMPLE
 GAIN 10 POINT 21

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	12.3	5.0 µS
UNKNOWN	2	56.3	8.3 µS
UNKNOWN	3	74.3	14.4 µS
UNKNOWN	4	100.1	102.4 µS

PHOTOVAC



STOP # 223.3
 SAMPLE RUN FEB 23 1988 12:2
 ANALYSIS # 52 PENNALT
 TEMPERATURE 20 SAMPLE REPEAT
 GAIN 10 POINT 21

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	2	25.3	6.3 µS

PHOTOVAC



STOP # 155.2
 SAMPLE RUN FEB 23 1988 12:16
 ANALYSIS # 53 PENNALT
 TEMPERATURE 23 AIR
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.9	7.5 µS
UNKNOWN	2	21.2	23.7 µS
UNKNOWN	3	52.1	18.5 µS
UNKNOWN	4	77.5	75.1 µS

PHOTOVAC



STOP # 150.4
 SAMPLE RUN FEB 23 1988 12:13
 ANALYSIS # 54 PENNALT
 TEMPERATURE 23 SAMPLE
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.5	20.5 µS
UNKNOWN	2	19.2	79.7 µS
UNKNOWN	3	58.5	11.3 µS
UNKNOWN	4	78.3	7.0 µS

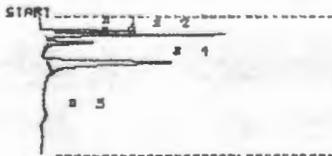
PHOTOVAC



STOP # 174.1
 SAMPLE RUN FEB 23 1988 12:13
 ANALYSIS # 55 PENNALT
 TEMPERATURE 30 AIR
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	52.5	8.6 µS
UNKNOWN	2	80.5	33.6 µS

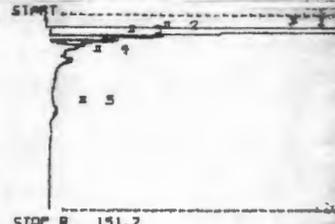
PHOTOVAC



STOP # 187.6
 SAMPLE RUN FEB 23 1988 12:10
 ANALYSIS # 56 PENNALT
 TEMPERATURE 31 STANDARD
 GAIN 10 25ATPD BENTENE

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.6	408.7 µS
UNKNOWN	2	14.4	386.6 µS
UNKNOWN	3	28.6	283.7 µS
UNKNOWN	4	38.2	1.4 µS
UNKNOWN	5	77.9	6.3 µS

PHOTOVAC



STOP # 151.7
 SAMPLE RUN FEB 23 1988 12:28
 ANALYSIS # 57 PENNALT
 TEMPERATURE 31 SAMPLE
 GAIN 10 POINT 22

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.8	6.8 µS
UNKNOWN	2	10.5	270.2 µS
UNKNOWN	3	28.2	424.3 µS
UNKNOWN	4	35.4	24.3 µS
UNKNOWN	5	70.8	11.8 µS

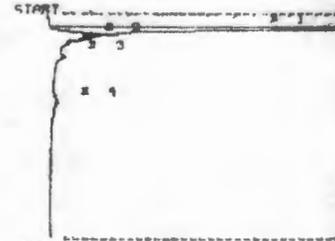
PHOTOVAC



STOP # 152.8
 SAMPLE RUN FEB 23 1988 12:23
 ANALYSIS # 58 PENNALT
 TEMPERATURE 32 AIR
 GAIN 10 POINT 23

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	3	10.5	270.2 µS

PHOTOVAC



STOP # 174.1
 SAMPLE RUN FEB 23 1988 12:10
 ANALYSIS # 53 PENNALT
 TEMPERATURE 33 SAMPLE
 GAIN 10 POINT 23

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	11.3	3.3 µS
UNKNOWN	2	13.5	32.5 µS
UNKNOWN	3	33.4	13.4 µS
UNKNOWN	4	63.7	20.3 µS

PHOTOVAC



STOP # 200.7
 SAMPLE RUN FEB 23 1988 12:31
 ANALYSIS # 60 PENNALT
 TEMPERATURE 33 AIR
 GAIN 10 POINT 24

COMPOUND NAME	PEAK	R.T.	AREA/PTD
UNKNOWN	1	18.8	67.1 µS
UNKNOWN	2	66.1	77.8 µS



ATTACHMENT II

Drilling and Soil Sampling

Borings for the collection of soil samples were excavated using a hollow-stem auger. Soil samples were collected at five-foot intervals, using a modified California split spoon sampler fitted with brass tubes for soil retention. Lithologic logs of the boreholes were compiled from these samples by a geologist, in accordance with the Unified Soils Classification System.

At least two samples were retrieved per sampling interval. Screening organic vapor using an ambient temperature headspace (ATH) method was conducted on one of these samples, by placing a portion of the soil into a clean glass jar, and sealing the jar with aluminum foil and a modified lid. After the sample was allowed to reach ambient temperature, the foil seal was punctured with the sampling probe of an HNu, photoionization detector, and the headspace was analyzed. Selected soil samples were delivered to a California-certified hazardous waste laboratory, and analyzed for volatile organics pollutants using U.S. EPA Method 8240.

The soil samples were for shipment to the laboratory as follows: Upon retrieval from the sampler, the middle of three brass tubes was covered on both ends with Teflon liners and capped with plastic end caps. The end caps were secured with plastic tape. A sample label was attached, identifying the sample by boring number and depth interval. The samples were then sealed in plastic bags and placed on ice. The samples were transported with documented chain-of-custody forms to the laboratory.

Prior to each use, the modified California split tube sampler was cleaned by first washing with a non-phosphate detergent, followed by a tap water rinse, methanol rinse and thorough distilled water rinse.

Soil borings were backfilled with cuttings and capped with concrete.

ENSR

LITHOLOGIC LOG AND CONSTRUCTION

CLIENT _____

DRILLING AND SAMPLING INFORMATION

PROJECT NAME PENWALT ORANGE PLANTDATE STARTED 2/25/88 DATE COMPLETED 2/25/88

PROJECT LOCATION _____

DRILLED BY A & R DRILLING DRILLER MARKJOB NO. G812-201 BORING NO. MW-1 (SB-1)METHOD HOLLOW STEM AUGER TOTAL DEPTH 66 FEETLOGGED BY M. GANDER M. WOODBOREHOLE SIZE 8 - INCHES DRILLING EQUIPMENT CME-75APPROVED BY C. KELLER R. RICHTER

WELL COMPLETION INFORMATION

BORING LOCATION SOUTH CENTRAL PORTION OF SITE

SCREEN DIA. _____ LENGTH _____

ELEVATION AND DATUM 166 FEET, USGS 7.5' ORANGE, CA

SLOT SIZE _____ TYPE _____

CASING DIA. _____ LENGTH _____

DEPTH (feet)	DESCRIPTION	SAMPLES					GRAPHIC LOG		REMARKS
		BLOW COUNT (blows/foot)	DRILLING (rate/time)	NUMBER	TYPE	AMBIENT HEADSPACE	LITHOLOGY	WELL COMPLETION	
	SPUD AT 8:50 AM								
	CONCRETE, 4 INCHES OF CEMENT CONCRETE		8:50				CC		SLOW DRILLING THROUGH CONCRETE
5	"ALLUVIUM (Qal)" SILTY CLAY (CL) RED TO BROWN, MOIST, FIRM, SLIGHTLY PLASTIC, STICKY	8	9:16	5	S		Qal CL		140 LB HAMMER 30 INCH STROKE AMBIENT AIR OVA = 2.2 PPM
10	BECOMES CLAYEY SILT (ML) RED TO BROWN, DAMP, MEDIUM FIRM, NONPLASTIC, TRACE SAND VERY FINE GRAINED	11	9:26	10	S		ML		AMBIENT AIR OVA = 1 PPM
15	BECOMES MOIST	28	9:39	15	S				
20	"ALLUVIUM (Qal)" SILTY GRAVEL (GC) BROWN, DAMP, DENSE, GRAVEL COARSE TO FINE, SUBANGULAR TO SUBROUNDED, SAND COARSE TO MEDIUM GRAINED	32	9:54	20	S		Qal GC		SLOW DRILLING- COBBLES AND GRAVEL AMBIENT AIR OVA ≤ 1.5 PPM
25	BECOMES SANDY GRAVEL (GM/GP) BROWN, DRY TO DAMP, DENSE	46	10:15	25	S		GM GP		SLOW DRILLING
30		57	10:35	30	S				



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

CLIENT

ERT
19782 MacArthur Blvd.
Suite 365
Irvine, CA 92715
Attn: Charles Keller

(2013)

LAB NO. F45427
REPORTED 03/10/88

SAMPLE Liquid & Soil

RECEIVED 02/25/88

IDENTIFICATION Pennwalt - Project #G812

BASED ON SAMPLE As Submitted

Soil SB-1-35 ? How many
Soil SB-2-5

SB-1 where?

Hydrocarbons (418.1) ND<10 mg/kg 617 mg/kg

Purgeable Organics EPA 8240: * ND * ND

* All compounds were None Detected. See attached list.

Liquid
SB-2-1.5

Hydrocarbons (418.1) 74.36%

Total Hydrocarbons (8015) 25.3 %

PCB's (Aroclor 1242) method? 2080 38 ppm

Infrared See attached

Purgeable Organics EPA 624:

2-Butanone 20.6 ppm

All other compounds were None Detected.
See attached list.

*#1242
Hydrocarbons
PCB's
Transferrin
etc*

ASSOCIATED LABORATORIES

Edward S. Behare, Ph.D.

ESB/ql

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TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •

Client: ERT
Lab No.: F45497
Date: March 10, 1988

PURGEABLE ORGANICS
EPA METHOD 8240:

LIMITS OF DETECTION

Chloromethane	ND< 30.0 $\mu\text{g}/\text{kg}$
Bromomethane	ND< 30.0 $\mu\text{g}/\text{kg}$
Vinyl Chloride	ND< 30.0 $\mu\text{g}/\text{kg}$
Chloroethane	ND< 30.0 $\mu\text{g}/\text{kg}$
Methylene Chloride	ND< 50.0 $\mu\text{g}/\text{kg}$
Acetone	ND< 50.0 $\mu\text{g}/\text{kg}$
Acrolein	ND< 50.0 $\mu\text{g}/\text{kg}$
Acrylonitrile	ND< 50.0 $\mu\text{g}/\text{kg}$
Carbon Disulfide	ND< 5.0 $\mu\text{g}/\text{kg}$
1,1-Dichloroethene	ND< 5.0 $\mu\text{g}/\text{kg}$
1,1-Dichloroethane	ND< 5.0 $\mu\text{g}/\text{kg}$
Trans-1,2-Dichloroethene	ND< 5.0 $\mu\text{g}/\text{kg}$
Tetrahydrofuran	ND< 5.0 $\mu\text{g}/\text{kg}$
Trichlorofluoromethane	ND< 5.0 $\mu\text{g}/\text{kg}$
Freon-TF	ND< 5.0 $\mu\text{g}/\text{kg}$
Ethylene Dibromide	ND< 5.0 $\mu\text{g}/\text{kg}$
1,4-Dioxane	ND< 5.0 $\mu\text{g}/\text{kg}$
1,2-Dibromo-3-Chloropropane	ND< 5.0 $\mu\text{g}/\text{kg}$
Chloroform	ND< 5.0 $\mu\text{g}/\text{kg}$
1,2-Dichloroethane	ND< 5.0 $\mu\text{g}/\text{kg}$
2-Butanone	ND< 50.0 $\mu\text{g}/\text{kg}$
1,1,1-Trichloroethane	ND< 5.0 $\mu\text{g}/\text{kg}$
Carbon Tetrachloride	ND< 5.0 $\mu\text{g}/\text{kg}$
Vinyl Acetate	ND< 30.0 $\mu\text{g}/\text{kg}$
Bromodichloromethane	ND< 5.0 $\mu\text{g}/\text{kg}$
1,1,2,2-Tetrachloroethane	ND< 5.0 $\mu\text{g}/\text{kg}$
1,2-Dichloropropane	ND< 5.0 $\mu\text{g}/\text{kg}$
Trans-1,3-Dichloropropene	ND< 5.0 $\mu\text{g}/\text{kg}$
Trichloroethene	ND< 5.0 $\mu\text{g}/\text{kg}$
Chlorodibromomethane	ND< 5.0 $\mu\text{g}/\text{kg}$
1,1,2-Trichloroethane	ND< 5.0 $\mu\text{g}/\text{kg}$
Benzene	ND< 5.0 $\mu\text{g}/\text{kg}$
Cis-1,3-Dichloropropene	ND< 5.0 $\mu\text{g}/\text{kg}$
2-Chloroethylvinyl Ether	ND< 50.0 $\mu\text{g}/\text{kg}$
Bromoform	ND< 5.0 $\mu\text{g}/\text{kg}$
2-Hexanone	ND< 30.0 $\mu\text{g}/\text{kg}$
4-Methyl-2-Pentanone	ND< 30.0 $\mu\text{g}/\text{kg}$
Tetrachloroethene	ND< 5.0 $\mu\text{g}/\text{kg}$
Toluene	ND< 5.0 $\mu\text{g}/\text{kg}$
Chlorobenzene	ND< 5.0 $\mu\text{g}/\text{kg}$
Ethylbenzene	ND< 5.0 $\mu\text{g}/\text{kg}$
Styrene	ND< 5.0 $\mu\text{g}/\text{kg}$
Total Xylenes	ND< 5.0 $\mu\text{g}/\text{kg}$
M-Chlorotoluene	ND< 5.0 $\mu\text{g}/\text{kg}$
1,3-Dichlorobenzene	ND< 5.0 $\mu\text{g}/\text{kg}$
1,4-Dichlorobenzene	ND< 5.0 $\mu\text{g}/\text{kg}$
1,2-Dichlorobenzene	ND< 5.0 $\mu\text{g}/\text{kg}$



APPENDIX B
Laboratory Analytical Reports

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-66665-1
Client Project/Site: Batavia / SC1123/13

For:

Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
8/12/2021 6:37:54 PM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Job ID: 570-66665-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-66665-1

Comments

No additional comments.

Receipt

The samples were received on 8/9/2021 5:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

GC Semi VOA

Method 8082: The following samples required a dilution due to the nature of the sample matrix: SB-6-2 (570-66665-12), SB-8-2 (570-66665-16), SB-10-2 (570-66665-22) and SB-13-2 (570-66665-33). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-5-2 (570-66665-9), SB-6-4 (570-66665-13), SB-8-2 (570-66665-16), SB-11-4 (570-66665-27), SB-13-2 (570-66665-33) and SB-14-2 (570-66665-37). The reagent lot number used was: 1449578. - 8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-1-8
Date Collected: 08/09/21 08:20
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Aroclor-1248	56		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 11:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	66		25 - 126			08/10/21 07:55	08/11/21 11:48	1
DCB Decachlorobiphenyl (Surr)	64		20 - 155			08/10/21 07:55	08/11/21 11:48	1

Client Sample ID: SB-2-8
Date Collected: 08/09/21 08:39
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Aroclor-1248	270		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	65		25 - 126			08/10/21 07:55	08/11/21 12:06	1
DCB Decachlorobiphenyl (Surr)	69		20 - 155			08/10/21 07:55	08/11/21 12:06	1

Client Sample ID: SB-3-8
Date Collected: 08/09/21 09:04
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Aroclor-1248	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 12:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	68		25 - 126			08/10/21 07:55	08/11/21 12:24	1
DCB Decachlorobiphenyl (Surr)	68		20 - 155			08/10/21 07:55	08/11/21 12:24	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-4-8
Date Collected: 08/09/21 09:34
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Aroclor-1221	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Aroclor-1232	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Aroclor-1242	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Aroclor-1248	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Aroclor-1254	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Aroclor-1260	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Aroclor-1262	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Aroclor-1268	ND		49	ug/Kg		08/10/21 07:55	08/11/21 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	66		25 - 126			08/10/21 07:55	08/11/21 12:43	1
DCB Decachlorobiphenyl (Surr)	66		20 - 155			08/10/21 07:55	08/11/21 12:43	1

Client Sample ID: SB-5-2
Date Collected: 08/09/21 10:05
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:01	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:01	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:01	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:01	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:01	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:01	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:01	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	60		25 - 126			08/10/21 07:55	08/11/21 13:01	1
DCB Decachlorobiphenyl (Surr)	63		20 - 155			08/10/21 07:55	08/11/21 13:01	1

Client Sample ID: SB-5-8
Date Collected: 08/09/21 10:08
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Aroclor-1248	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126			08/10/21 07:55	08/11/21 13:20	1
DCB Decachlorobiphenyl (Surr)	78		20 - 155			08/10/21 07:55	08/11/21 13:20	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-6-2
Date Collected: 08/09/21 10:40
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:38	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:38	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:38	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:38	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:38	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:38	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:38	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 13:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	79		25 - 126			08/10/21 07:55	08/11/21 13:38	1
<i>DCB Decachlorobiphenyl (Surr)</i>	88		20 - 155			08/10/21 07:55	08/11/21 13:38	1

Client Sample ID: SB-6-4
Date Collected: 08/09/21 10:42
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		08/10/21 07:55	08/11/21 13:56	1
Aroclor-1221	ND		49	ug/Kg		08/10/21 07:55	08/11/21 13:56	1
Aroclor-1232	ND		49	ug/Kg		08/10/21 07:55	08/11/21 13:56	1
Aroclor-1242	ND		49	ug/Kg		08/10/21 07:55	08/11/21 13:56	1
Aroclor-1254	ND		49	ug/Kg		08/10/21 07:55	08/11/21 13:56	1
Aroclor-1260	ND		49	ug/Kg		08/10/21 07:55	08/11/21 13:56	1
Aroclor-1262	ND		49	ug/Kg		08/10/21 07:55	08/11/21 13:56	1
Aroclor-1268	ND		49	ug/Kg		08/10/21 07:55	08/11/21 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	51		25 - 126			08/10/21 07:55	08/11/21 13:56	1
<i>DCB Decachlorobiphenyl (Surr)</i>	57		20 - 155			08/10/21 07:55	08/11/21 13:56	1

Client Sample ID: SB-8-2
Date Collected: 08/09/21 11:50
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		08/10/21 07:55	08/11/21 14:33	1
Aroclor-1221	ND		49	ug/Kg		08/10/21 07:55	08/11/21 14:33	1
Aroclor-1232	ND		49	ug/Kg		08/10/21 07:55	08/11/21 14:33	1
Aroclor-1242	ND		49	ug/Kg		08/10/21 07:55	08/11/21 14:33	1
Aroclor-1254	ND		49	ug/Kg		08/10/21 07:55	08/11/21 14:33	1
Aroclor-1260	ND		49	ug/Kg		08/10/21 07:55	08/11/21 14:33	1
Aroclor-1262	ND		49	ug/Kg		08/10/21 07:55	08/11/21 14:33	1
Aroclor-1268	ND		49	ug/Kg		08/10/21 07:55	08/11/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	74		25 - 126			08/10/21 07:55	08/11/21 14:33	1
<i>DCB Decachlorobiphenyl (Surr)</i>	100		20 - 155			08/10/21 07:55	08/11/21 14:33	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-8-4
Date Collected: 08/09/21 11:51
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-17
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Aroclor-1248	350		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 14:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	78		25 - 126			08/10/21 07:55	08/11/21 14:51	1
<i>DCB Decachlorobiphenyl (Surr)</i>	66		20 - 155			08/10/21 07:55	08/11/21 14:51	1

Client Sample ID: SB-9-8
Date Collected: 08/09/21 12:54
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Aroclor-1248	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	82		25 - 126			08/10/21 07:55	08/11/21 15:10	1
<i>DCB Decachlorobiphenyl (Surr)</i>	74		20 - 155			08/10/21 07:55	08/11/21 15:10	1

Client Sample ID: SB-10-2
Date Collected: 08/09/21 13:20
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:28	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:28	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:28	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:28	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:28	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:28	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:28	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	69		25 - 126			08/10/21 07:55	08/11/21 15:28	1
<i>DCB Decachlorobiphenyl (Surr)</i>	72		20 - 155			08/10/21 07:55	08/11/21 15:28	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-10-4
Date Collected: 08/09/21 13:22
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-23
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Aroclor-1221	ND		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Aroclor-1232	ND		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Aroclor-1242	ND		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Aroclor-1248	340		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Aroclor-1254	ND		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Aroclor-1260	ND		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Aroclor-1262	ND		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Aroclor-1268	ND		49	ug/Kg		08/10/21 07:55	08/11/21 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			08/10/21 07:55	08/11/21 15:47	1
<i>DCB Decachlorobiphenyl (Surr)</i>	65		20 - 155			08/10/21 07:55	08/11/21 15:47	1

Client Sample ID: SB-11-2
Date Collected: 08/09/21 13:41
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-26
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Aroclor-1221	ND		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Aroclor-1232	ND		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Aroclor-1242	ND		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Aroclor-1248	2400		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Aroclor-1254	ND		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Aroclor-1260	ND		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Aroclor-1262	ND		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Aroclor-1268	ND		500	ug/Kg		08/10/21 07:55	08/11/21 20:40	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	80		25 - 126			08/10/21 07:55	08/11/21 20:40	10
<i>DCB Decachlorobiphenyl (Surr)</i>	86		20 - 155			08/10/21 07:55	08/11/21 20:40	10

Client Sample ID: SB-11-4
Date Collected: 08/09/21 13:42
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-27
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Aroclor-1248	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 16:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	68		25 - 126			08/10/21 07:55	08/11/21 16:23	1
<i>DCB Decachlorobiphenyl (Surr)</i>	61		20 - 155			08/10/21 07:55	08/11/21 16:23	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-12-4
Date Collected: 08/09/21 14:25
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-30
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Aroclor-1248	130		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	83		25 - 126			08/10/21 07:55	08/11/21 17:00	1
<i>DCB Decachlorobiphenyl (Surr)</i>	78		20 - 155			08/10/21 07:55	08/11/21 17:00	1

Client Sample ID: SB-13-2
Date Collected: 08/09/21 14:51
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-33
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:18	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:18	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:18	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:18	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:18	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:18	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:18	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	75		25 - 126			08/10/21 07:55	08/11/21 17:18	1
<i>DCB Decachlorobiphenyl (Surr)</i>	57		20 - 155			08/10/21 07:55	08/11/21 17:18	1

Client Sample ID: SB-13-4
Date Collected: 08/09/21 14:52
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-34
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Aroclor-1248	120		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	69		25 - 126			08/10/21 07:55	08/11/21 17:37	1
<i>DCB Decachlorobiphenyl (Surr)</i>	63		20 - 155			08/10/21 07:55	08/11/21 17:37	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-14-2
Date Collected: 08/09/21 15:15
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-37
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:55	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:55	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:55	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:55	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:55	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:55	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:55	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			08/10/21 07:55	08/11/21 17:55	1
DCB Decachlorobiphenyl (Surr)	79		20 - 155			08/10/21 07:55	08/11/21 17:55	1

Client Sample ID: SB-14-4
Date Collected: 08/09/21 15:17
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-38
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Aroclor-1221	ND		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Aroclor-1232	ND		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Aroclor-1242	ND		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Aroclor-1248	160		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Aroclor-1254	ND		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Aroclor-1260	ND		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Aroclor-1262	ND		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Aroclor-1268	ND		49	ug/Kg		08/10/21 07:55	08/11/21 18:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	75		25 - 126			08/10/21 07:55	08/11/21 18:13	1
DCB Decachlorobiphenyl (Surr)	68		20 - 155			08/10/21 07:55	08/11/21 18:13	1

Client Sample ID: SB-9-3
Date Collected: 08/09/21 12:50
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-41
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:59	08/11/21 09:59	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:59	08/11/21 09:59	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:59	08/11/21 09:59	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:59	08/11/21 09:59	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:59	08/11/21 09:59	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:59	08/11/21 09:59	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:59	08/11/21 09:59	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:59	08/11/21 09:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	66		25 - 126			08/10/21 07:59	08/11/21 09:59	1
DCB Decachlorobiphenyl (Surr)	73		20 - 155			08/10/21 07:59	08/11/21 09:59	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-5-2
Date Collected: 08/09/21 10:05
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	8800		1000	ug/Kg	-	08/10/21 07:55	08/12/21 16:46	20
Surrogate								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	105		25 - 126			08/10/21 07:55	08/12/21 16:46	20
<i>DCB Decachlorobiphenyl (Surr)</i>	132		20 - 155			08/10/21 07:55	08/12/21 16:46	20

Client Sample ID: SB-6-2
Date Collected: 08/09/21 10:40
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	17000		5000	ug/Kg	-	08/10/21 07:55	08/11/21 18:50	100
Surrogate								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	167	S1+	25 - 126			08/10/21 07:55	08/11/21 18:50	100
<i>DCB Decachlorobiphenyl (Surr)</i>	167	S1+	20 - 155			08/10/21 07:55	08/11/21 18:50	100

Client Sample ID: SB-8-2
Date Collected: 08/09/21 11:50
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	230000		49000	ug/Kg	-	08/10/21 07:55	08/11/21 19:45	1000
Surrogate								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	162	S1+	25 - 126			08/10/21 07:55	08/11/21 19:45	1000
<i>DCB Decachlorobiphenyl (Surr)</i>	202	S1+	20 - 155			08/10/21 07:55	08/11/21 19:45	1000

Client Sample ID: SB-10-2
Date Collected: 08/09/21 13:20
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	3200		500	ug/Kg	-	08/10/21 07:55	08/11/21 20:22	10
Surrogate								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	3	S1-	25 - 126			08/10/21 07:55	08/11/21 20:22	10
<i>DCB Decachlorobiphenyl (Surr)</i>	6	S1-	20 - 155			08/10/21 07:55	08/11/21 20:22	10

Client Sample ID: SB-9-3
Date Collected: 08/09/21 12:50
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-41
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	1500		500	ug/Kg	-	08/10/21 07:59	08/11/21 13:17	10
Surrogate								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	60		25 - 126			08/10/21 07:59	08/11/21 13:17	10
<i>DCB Decachlorobiphenyl (Surr)</i>	59		20 - 155			08/10/21 07:59	08/11/21 13:17	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL2

Client Sample ID: SB-6-4
Date Collected: 08/09/21 10:42
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	3400		490	ug/Kg	-	08/10/21 07:55	08/11/21 19:27	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	63		25 - 126			08/10/21 07:55	08/11/21 19:27	10
<i>DCB Decachlorobiphenyl (Surr)</i>	70		20 - 155			08/10/21 07:55	08/11/21 19:27	10

Client Sample ID: SB-13-2
Date Collected: 08/09/21 14:51
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-33
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	24000		5000	ug/Kg	-	08/10/21 07:55	08/11/21 21:22	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	69		25 - 126			08/10/21 07:55	08/11/21 21:22	100
<i>DCB Decachlorobiphenyl (Surr)</i>	79		20 - 155			08/10/21 07:55	08/11/21 21:22	100

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL3

Client Sample ID: SB-14-2
Date Collected: 08/09/21 15:15
Date Received: 08/09/21 18:20

Lab Sample ID: 570-66665-37
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	300000		50000	ug/Kg		08/10/21 07:55	08/12/21 12:10	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	219	S1+	25 - 126			08/10/21 07:55	08/12/21 12:10	1000
<i>DCB Decachlorobiphenyl (Surr)</i>	601	S1+	20 - 155			08/10/21 07:55	08/12/21 12:10	1000

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-66188-A-1-I MS	Matrix Spike	61	64
570-66188-A-1-J MSD	Matrix Spike Duplicate	67	72
570-66665-1	SB-1-8	66	64
570-66665-3	SB-2-8	65	69
570-66665-5	SB-3-8	68	68
570-66665-7	SB-4-8	66	66
570-66665-9	SB-5-2	60	63
570-66665-9 - DL	SB-5-2	105	132
570-66665-10	SB-5-8	78	78
570-66665-10 MS	SB-5-8	74	75
570-66665-10 MSD	SB-5-8	77	79
570-66665-12	SB-6-2	79	88
570-66665-12 - DL	SB-6-2	167 S1+	167 S1+
570-66665-13	SB-6-4	51	57
570-66665-13 - DL2	SB-6-4	63	70
570-66665-16	SB-8-2	74	100
570-66665-16 - DL	SB-8-2	162 S1+	202 S1+
570-66665-17	SB-8-4	78	66
570-66665-20	SB-9-8	82	74
570-66665-22	SB-10-2	69	72
570-66665-22 - DL	SB-10-2	3 S1-	6 S1-
570-66665-23	SB-10-4	72	65
570-66665-26	SB-11-2	80	86
570-66665-27	SB-11-4	68	61
570-66665-30	SB-12-4	83	78
570-66665-33	SB-13-2	75	57
570-66665-33 - DL2	SB-13-2	69	79
570-66665-34	SB-13-4	69	63
570-66665-37	SB-14-2	73	79
570-66665-37 - DL3	SB-14-2	219 S1+	601 S1+
570-66665-38	SB-14-4	75	68
570-66665-41	SB-9-3	66	73
570-66665-41 - DL	SB-9-3	60	59
LCS 570-170076/2-A	Lab Control Sample	96	96
LCS 570-170077/4-A	Lab Control Sample	87	89
LCSD 570-170076/3-A	Lab Control Sample Dup	98	99
LCSD 570-170077/5-A	Lab Control Sample Dup	81	90
MB 570-170076/1-A	Method Blank	92	90 p
MB 570-170077/1-A	Method Blank	99	100

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-170076/1-A
Matrix: Solid
Analysis Batch: 170296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170076

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1
Aroclor-1248	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:55	08/11/21 09:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	92		25 - 126	08/10/21 07:55	08/11/21 09:58	1
DCB Decachlorobiphenyl (Surr)	90	p	20 - 155	08/10/21 07:55	08/11/21 09:58	1

Lab Sample ID: LCS 570-170076/2-A
Matrix: Solid
Analysis Batch: 170296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	100	111.1		ug/Kg		111	50 - 142
Aroclor-1260	100	99.81		ug/Kg		100	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	96		25 - 126
DCB Decachlorobiphenyl (Surr)	96		20 - 155

Lab Sample ID: LCSD 570-170076/3-A
Matrix: Solid
Analysis Batch: 170296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170076

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aroclor-1016	100	116.2		ug/Kg		116	50 - 142	5	30
Aroclor-1260	100	105.2		ug/Kg		105	50 - 150	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	98		25 - 126
DCB Decachlorobiphenyl (Surr)	99		20 - 155

Lab Sample ID: 570-66665-10 MS
Matrix: Solid
Analysis Batch: 170296

Client Sample ID: SB-5-8
Prep Type: Total/NA
Prep Batch: 170076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	ND		99.5	89.56		ug/Kg		90	20 - 175
Aroclor-1260	ND		99.5	85.59		ug/Kg		86	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-66665-10 MS
Matrix: Solid
Analysis Batch: 170296

Client Sample ID: SB-5-8
Prep Type: Total/NA
Prep Batch: 170076

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	74		25 - 126
DCB Decachlorobiphenyl (Surr)	75		20 - 155

Lab Sample ID: 570-66665-10 MSD
Matrix: Solid
Analysis Batch: 170296

Client Sample ID: SB-5-8
Prep Type: Total/NA
Prep Batch: 170076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aroclor-1016	ND		100	93.02		ug/Kg		93	20 - 175	4	40	
Aroclor-1260	ND		100	88.65		ug/Kg		89	20 - 180	4	40	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	77		25 - 126
DCB Decachlorobiphenyl (Surr)	79		20 - 155

Lab Sample ID: MB 570-170077/1-A
Matrix: Solid
Analysis Batch: 170276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170077

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1
Aroclor-1221	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1
Aroclor-1232	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1
Aroclor-1242	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1
Aroclor-1248	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1
Aroclor-1254	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1
Aroclor-1260	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1
Aroclor-1262	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1
Aroclor-1268	ND		50	ug/Kg		08/10/21 07:58	08/11/21 05:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	99		25 - 126	08/10/21 07:58	08/11/21 05:29	1
DCB Decachlorobiphenyl (Surr)	100		20 - 155	08/10/21 07:58	08/11/21 05:29	1

Lab Sample ID: LCS 570-170077/4-A
Matrix: Solid
Analysis Batch: 170276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170077

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Aroclor-1016	100	99.29		ug/Kg		99	50 - 142	
Aroclor-1260	100	108.4		ug/Kg		108	50 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	87		25 - 126
DCB Decachlorobiphenyl (Surr)	89		20 - 155

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 570-170077/5-A
Matrix: Solid
Analysis Batch: 170276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170077

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD Limit
							Limits	RPD	
Aroclor-1016	100	94.04		ug/Kg		94	50 - 142	5	30
Aroclor-1260	100	108.7		ug/Kg		109	50 - 150	0	30
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene (Surr)	81		25 - 126						
DCB Decachlorobiphenyl (Surr)	90		20 - 155						

Lab Sample ID: 570-66188-A-1-I MS
Matrix: Solid
Analysis Batch: 170276

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 170077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Aroclor-1016	ND		100	75.74		ug/Kg		76	20 - 175	
Aroclor-1260	150		100	190.3		ug/Kg		42	20 - 180	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	61		25 - 126							
DCB Decachlorobiphenyl (Surr)	64		20 - 155							

Lab Sample ID: 570-66188-A-1-J MSD
Matrix: Solid
Analysis Batch: 170276

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 170077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Aroclor-1016	ND		101	88.05		ug/Kg		87	20 - 175	15
Aroclor-1260	150		101	226.5		ug/Kg		78	20 - 180	17
MSD MSD										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	67		25 - 126							
DCB Decachlorobiphenyl (Surr)	72		20 - 155							

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

GC Semi VOA

ISM Prep Batch: 170002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66188-A-1-I MS	Matrix Spike	Total/NA	Solid	Increment, Prep	
570-66188-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	Increment, Prep	

Prep Batch: 170076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66665-1	SB-1-8	Total/NA	Solid	3546	
570-66665-3	SB-2-8	Total/NA	Solid	3546	
570-66665-5	SB-3-8	Total/NA	Solid	3546	
570-66665-7	SB-4-8	Total/NA	Solid	3546	
570-66665-9	SB-5-2	Total/NA	Solid	3546	
570-66665-9 - DL	SB-5-2	Total/NA	Solid	3546	
570-66665-10	SB-5-8	Total/NA	Solid	3546	
570-66665-12 - DL	SB-6-2	Total/NA	Solid	3546	
570-66665-12	SB-6-2	Total/NA	Solid	3546	
570-66665-13 - DL2	SB-6-4	Total/NA	Solid	3546	
570-66665-13	SB-6-4	Total/NA	Solid	3546	
570-66665-16 - DL	SB-8-2	Total/NA	Solid	3546	
570-66665-16	SB-8-2	Total/NA	Solid	3546	
570-66665-17	SB-8-4	Total/NA	Solid	3546	
570-66665-20	SB-9-8	Total/NA	Solid	3546	
570-66665-22 - DL	SB-10-2	Total/NA	Solid	3546	
570-66665-22	SB-10-2	Total/NA	Solid	3546	
570-66665-23	SB-10-4	Total/NA	Solid	3546	
570-66665-26	SB-11-2	Total/NA	Solid	3546	
570-66665-27	SB-11-4	Total/NA	Solid	3546	
570-66665-30	SB-12-4	Total/NA	Solid	3546	
570-66665-33 - DL2	SB-13-2	Total/NA	Solid	3546	
570-66665-33	SB-13-2	Total/NA	Solid	3546	
570-66665-34	SB-13-4	Total/NA	Solid	3546	
570-66665-37	SB-14-2	Total/NA	Solid	3546	
570-66665-37 - DL3	SB-14-2	Total/NA	Solid	3546	
570-66665-38	SB-14-4	Total/NA	Solid	3546	
MB 570-170076/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-170076/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 570-170076/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-66665-10 MS	SB-5-8	Total/NA	Solid	3546	
570-66665-10 MSD	SB-5-8	Total/NA	Solid	3546	

Prep Batch: 170077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66665-41	SB-9-3	Total/NA	Solid	3546	
570-66665-41 - DL	SB-9-3	Total/NA	Solid	3546	
MB 570-170077/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-170077/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 570-170077/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-66188-A-1-I MS	Matrix Spike	Total/NA	Solid	3546	170002
570-66188-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	170002

Analysis Batch: 170276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66665-41	SB-9-3	Total/NA	Solid	8082	170077

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QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

GC Semi VOA (Continued)

Analysis Batch: 170276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66665-41 - DL	SB-9-3	Total/NA	Solid	8082	170077
MB 570-170077/1-A	Method Blank	Total/NA	Solid	8082	170077
LCS 570-170077/4-A	Lab Control Sample	Total/NA	Solid	8082	170077
LCSD 570-170077/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	170077
570-66188-A-1-I MS	Matrix Spike	Total/NA	Solid	8082	170077
570-66188-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	170077

Analysis Batch: 170296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66665-1	SB-1-8	Total/NA	Solid	8082	170076
570-66665-3	SB-2-8	Total/NA	Solid	8082	170076
570-66665-5	SB-3-8	Total/NA	Solid	8082	170076
570-66665-7	SB-4-8	Total/NA	Solid	8082	170076
570-66665-9	SB-5-2	Total/NA	Solid	8082	170076
570-66665-10	SB-5-8	Total/NA	Solid	8082	170076
570-66665-12	SB-6-2	Total/NA	Solid	8082	170076
570-66665-12 - DL	SB-6-2	Total/NA	Solid	8082	170076
570-66665-13	SB-6-4	Total/NA	Solid	8082	170076
570-66665-13 - DL2	SB-6-4	Total/NA	Solid	8082	170076
570-66665-16	SB-8-2	Total/NA	Solid	8082	170076
570-66665-16 - DL	SB-8-2	Total/NA	Solid	8082	170076
570-66665-17	SB-8-4	Total/NA	Solid	8082	170076
570-66665-20	SB-9-8	Total/NA	Solid	8082	170076
570-66665-22	SB-10-2	Total/NA	Solid	8082	170076
570-66665-22 - DL	SB-10-2	Total/NA	Solid	8082	170076
570-66665-23	SB-10-4	Total/NA	Solid	8082	170076
570-66665-26	SB-11-2	Total/NA	Solid	8082	170076
570-66665-27	SB-11-4	Total/NA	Solid	8082	170076
570-66665-30	SB-12-4	Total/NA	Solid	8082	170076
570-66665-33	SB-13-2	Total/NA	Solid	8082	170076
570-66665-33 - DL2	SB-13-2	Total/NA	Solid	8082	170076
570-66665-34	SB-13-4	Total/NA	Solid	8082	170076
570-66665-37	SB-14-2	Total/NA	Solid	8082	170076
570-66665-38	SB-14-4	Total/NA	Solid	8082	170076
MB 570-170076/1-A	Method Blank	Total/NA	Solid	8082	170076
LCS 570-170076/2-A	Lab Control Sample	Total/NA	Solid	8082	170076
LCSD 570-170076/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	170076
570-66665-10 MS	SB-5-8	Total/NA	Solid	8082	170076
570-66665-10 MSD	SB-5-8	Total/NA	Solid	8082	170076

Analysis Batch: 170795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66665-9 - DL	SB-5-2	Total/NA	Solid	8082	170076
570-66665-37 - DL3	SB-14-2	Total/NA	Solid	8082	170076

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Client Sample ID: SB-1-8

Lab Sample ID: 570-66665-1

Date Collected: 08/09/21 08:20

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.04 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 11:48	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-2-8

Lab Sample ID: 570-66665-3

Date Collected: 08/09/21 08:39

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.10 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 12:06	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-3-8

Lab Sample ID: 570-66665-5

Date Collected: 08/09/21 09:04

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.93 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 12:24	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-4-8

Lab Sample ID: 570-66665-7

Date Collected: 08/09/21 09:34

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.23 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 12:43	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-5-2

Lab Sample ID: 570-66665-9

Date Collected: 08/09/21 10:05

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.08 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 13:01	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546	DL		20.08 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082	DL	20			170795	08/12/21 16:46	J7WE	ECL 1
Instrument ID: GC66										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Client Sample ID: SB-5-8

Lab Sample ID: 570-66665-10

Date Collected: 08/09/21 10:08

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.08 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 13:20	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-6-2

Lab Sample ID: 570-66665-12

Date Collected: 08/09/21 10:40

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 13:38	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546	DL		20.12 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082	DL	100			170296	08/11/21 18:50	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-6-4

Lab Sample ID: 570-66665-13

Date Collected: 08/09/21 10:42

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.26 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 13:56	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546	DL2		20.26 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082	DL2	10			170296	08/11/21 19:27	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-8-2

Lab Sample ID: 570-66665-16

Date Collected: 08/09/21 11:50

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.21 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 14:33	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546	DL		20.21 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082	DL	1000			170296	08/11/21 19:45	UHHN	ECL 1
Instrument ID: GC66										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Client Sample ID: SB-8-4

Lab Sample ID: 570-66665-17

Date Collected: 08/09/21 11:51

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.96 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 14:51	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-9-8

Lab Sample ID: 570-66665-20

Date Collected: 08/09/21 12:54

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 15:10	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-10-2

Lab Sample ID: 570-66665-22

Date Collected: 08/09/21 13:20

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 15:28	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546	DL		20.05 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082	DL	10			170296	08/11/21 20:22	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-10-4

Lab Sample ID: 570-66665-23

Date Collected: 08/09/21 13:22

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.21 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 15:47	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-11-2

Lab Sample ID: 570-66665-26

Date Collected: 08/09/21 13:41

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		10			170296	08/11/21 20:40	UHHN	ECL 1
Instrument ID: GC66										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Client Sample ID: SB-11-4

Lab Sample ID: 570-66665-27

Date Collected: 08/09/21 13:42

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.20 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 16:23	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-12-4

Lab Sample ID: 570-66665-30

Date Collected: 08/09/21 14:25

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 17:00	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-13-2

Lab Sample ID: 570-66665-33

Date Collected: 08/09/21 14:51

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.90 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 17:18	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546	DL2		19.90 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082	DL2	100			170296	08/11/21 21:22	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-13-4

Lab Sample ID: 570-66665-34

Date Collected: 08/09/21 14:52

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.04 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 17:37	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-14-2

Lab Sample ID: 570-66665-37

Date Collected: 08/09/21 15:15

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.03 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 17:55	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546	DL3		20.03 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082	DL3	1000			170795	08/12/21 12:10	J7WE	ECL 1
Instrument ID: GC66										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Client Sample ID: SB-14-4

Lab Sample ID: 570-66665-38

Date Collected: 08/09/21 15:17

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.21 g	10 mL	170076	08/10/21 07:55	F7UI	ECL 1
Total/NA	Analysis	8082		1			170296	08/11/21 18:13	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-9-3

Lab Sample ID: 570-66665-41

Date Collected: 08/09/21 12:50

Matrix: Solid

Date Received: 08/09/21 18:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	170077	08/10/21 07:59	F7UI	ECL 1
Total/NA	Analysis	8082		1			170276	08/11/21 09:59	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.14 g	10 mL	170077	08/10/21 07:59	F7UI	ECL 1
Total/NA	Analysis	8082	DL	10			170276	08/11/21 13:17	UHHN	ECL 1
Instrument ID: GC58										

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

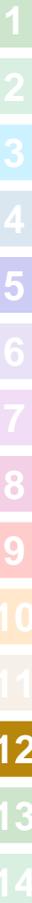


Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66665-1

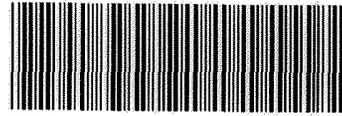
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-66665-1	SB-1-8	Solid	08/09/21 08:20	08/09/21 18:20
570-66665-3	SB-2-8	Solid	08/09/21 08:39	08/09/21 18:20
570-66665-5	SB-3-8	Solid	08/09/21 09:04	08/09/21 18:20
570-66665-7	SB-4-8	Solid	08/09/21 09:34	08/09/21 18:20
570-66665-9	SB-5-2	Solid	08/09/21 10:05	08/09/21 18:20
570-66665-10	SB-5-8	Solid	08/09/21 10:08	08/09/21 18:20
570-66665-12	SB-6-2	Solid	08/09/21 10:40	08/09/21 18:20
570-66665-13	SB-6-4	Solid	08/09/21 10:42	08/09/21 18:20
570-66665-16	SB-8-2	Solid	08/09/21 11:50	08/09/21 18:20
570-66665-17	SB-8-4	Solid	08/09/21 11:51	08/09/21 18:20
570-66665-20	SB-9-8	Solid	08/09/21 12:54	08/09/21 18:20
570-66665-22	SB-10-2	Solid	08/09/21 13:20	08/09/21 18:20
570-66665-23	SB-10-4	Solid	08/09/21 13:22	08/09/21 18:20
570-66665-26	SB-11-2	Solid	08/09/21 13:41	08/09/21 18:20
570-66665-27	SB-11-4	Solid	08/09/21 13:42	08/09/21 18:20
570-66665-30	SB-12-4	Solid	08/09/21 14:25	08/09/21 18:20
570-66665-33	SB-13-2	Solid	08/09/21 14:51	08/09/21 18:20
570-66665-34	SB-13-4	Solid	08/09/21 14:52	08/09/21 18:20
570-66665-37	SB-14-2	Solid	08/09/21 15:15	08/09/21 18:20
570-66665-38	SB-14-4	Solid	08/09/21 15:17	08/09/21 18:20
570-66665-41	SB-9-3	Solid	08/09/21 12:50	08/09/21 18:20



66665



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570-66665 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 8/9/21

PAGE: 1 OF 5

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For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: Batavia / SC1123/13	P O NO 100028560
ADDRESS: 110644 Bernardo Center Dr. W. Bernardo Dr.		PROJECT CONTACT: Brian B. Rodwell	SAMPLER(S): (PRINT) Emily Imperato
CITY: San Diego	STATE: CA	ZIP: 92127	Battany Miller
TEL: 619-309-9549	E-MAIL: Brockwell@geosyntec.com		

REQUESTED ANALYSES

Please check box or fill in blank as needed

<input type="checkbox"/> SAME DAY	<input type="checkbox"/> 24 HR	<input checked="" type="checkbox"/> 48 HR	<input type="checkbox"/> 72 HR	<input type="checkbox"/> 5 DAYS	<input type="checkbox"/> STANDARD
<input type="checkbox"/> COELT EDF	GLOBAL ID:	LOG CODE:			

SPECIAL INSTRUCTIONS:

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOGs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010747X <input type="checkbox"/> 6020747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	Hold	
		DATE	TIME																					
1	SB-1-8	8/9/21	0820	S	1	X																		
2	SB-1-12		0825			X																		X
	SB-2-4																							
3	SB-2-8		0839			X													X					
4	SB-2-12		0840			X																		X
5	SB-3-8		0904			X													X					
6	SB-3-12		0900			X																		X
7	SB-4-8		0934			X													X					
8	SB-4-12		0938			X																		X
9	SB-5-2		1005			X													X					

Relinquished by: (Signature) <i>Emily Imperato</i>	Received by: (Signature/Affiliation) <i>E C I</i>	Date: 8/9/21	Time: 1629
Relinquished by: (Signature) <i>E C I</i>	Received by: (Signature/Affiliation) <i>W. P. Pats</i>	Date: 8-9-2021	Time: 17:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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8/12/2021





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66665

CHAIN OF CUSTODY RECORD

DATE: 8/19/21

PAGE: 2 OF 5

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LABORATORY CLIENT: Geosyntec Consultants
ADDRESS: 16644 W Bernardo Cent Dr.
CITY: San Diego STATE: CA ZIP: 92127
TEL: 619-309-9549 E-MAIL: Brockwell@geosyntec.com
CLIENT PROJECT NAME / NUMBER: Batavia / S01123113
P O NO: 100028560
PROJECT CONTACT: Brian G. Rockwell
SAMPLER(S): (PRINT) Emily Imperato, Brittany Theisen

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")
[] SAME DAY [] 24 HR [x] 48 HR [] 72 HR [] 5 DAYS [] STANDARD
[] COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES

Table with columns for various analytes: TPH(g), GRO, DRO, C6-C44, BTEX/MTBE, VOCs, Oxygenates, En Core, SVOCs, Pesticides, PCBs, PAHs, T22 Metals, Cr(VI). Includes checkboxes and handwritten 'Hold' in the Cr(VI) column.

Table with columns: LAB USE ONLY, SAMPLE ID, SAMPLING (DATE, TIME), MATRIX, NO. OF CONT., Unpreserved, Preserved, Field Filtered. Contains rows 10-19 with sample IDs SB-5-8 to SB-8-12.

Relinquished by: (Signature) [Signature] Date: 8/19/21 Time: 1629
Received by: (Signature/Affiliation) [Signature] ECI Date: 8-9-2021 Time: 17:20

Page 30 of 34

8/12/2021





Calscience

66665

CHAIN OF CUSTODY RECORD

DATE: 8/9/21

PAGE: 3 OF 5

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 For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: <u>Geosyntec Consultants</u>		CLIENT PROJECT NAME / NUMBER: <u>Batavia / SC1123/13</u>	P O NO: <u>100028560</u>
ADDRESS: <u>116644 W. Bernardo Dr.</u>		PROJECT CONTACT: <u>Brian G. Rockwell</u>	SAMPLER(S) (PRINT): <u>Emily Imperato</u> <u>Brittany Theisen</u>
CITY: <u>San Diego</u>	STATE: <u>CA</u>	ZIP: <u>92127</u>	
TEL: <u>619-309-9549</u>	E-MAIL: <u>BROCKWELL@geosyntec.com</u>		

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF

GLOBAL ID: _____ LOG CODE: _____

SPECIAL INSTRUCTIONS: _____

Please check box or fill in blank as needed

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals: <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6				
--	--	---	-----------	--	-------------	-------------------	--	--------------	-------------------	-------------	--	---	---	--	--	--	--

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals: <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	406	
		DATE	TIME																					
20	SB-9-8	8/9/21	1254	S	1	X																		
21	SB-9-12		1256																				X	
22	SB-10-2		1320																					
23	SB-10-4		1322																					
24	SB-10-8		1323																				X	
	SB-10-10		1327																					
25	SB-10-12		1328																				X	
26	SB-11-2		1341																					
27	SB-11-4		1342																					
28	SB-11-8		1346																				X	

Relinquished by: (Signature) <u>AJ hso</u>	Received by: (Signature/Affiliation) <u>E CJ</u>	Date: <u>8/9/21</u>	Time: <u>1629</u>
Relinquished by: (Signature) <u>A J E CJ</u>	Received by: (Signature/Affiliation) <u>W Park</u>	Date: <u>8-9-2021</u>	Time: <u>17:20</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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8/12/2021





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CHAIN OF CUSTODY RECORD

DATE: 8/19/21

PAGE: 5 OF 5

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LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: Batavia/SC1123/13		P.O. NO. 10002860
ADDRESS: 16644 W. Bernardo dr.		PROJECT CONTACT: Brian Rockwell		SAMPLER(S) (PRINT) Emily Imperato Brittany Theiler
CITY: San Diego	STATE: Ca	ZIP: 92127		
TEL: 619-309-9549	E-MAIL: BROCKWELL@geosyntec.com			

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY
 24 HR
 48 HR
 72 HR
 5 DAYS
 STANDARD

COELT EDF
 GLOBAL ID: _____
 LOG CODE: _____

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

TPH(g) <input type="checkbox"/> GRO	TPH(g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6		
										X					
										X					
										X					

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
39	SB-14-8	8/19/21	1517	S	1	X		
40	SB-14-12	8/19/21	1524	S	1	X		
41	SB-9-3	8/19/21	1250	S	1	X		

Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature/Affiliation): <i>[Signature]</i>	Date: 8/19/21	Time: 1629
Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature/Affiliation): <i>[Signature]</i>	Date: 8-9-2021	Time: 17:20
Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature/Affiliation): <i>[Signature]</i>	Date:	Time:



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-66665-1

Login Number: 66665

List Number: 1

Creator: Patel, Jayesh

List Source: Eurofins Calscience LLC

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-66742-1
Client Project/Site: Batavia / SC1123/13

For:

Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



*Authorized for release by:
8/12/2021 8:39:01 PM*

Tina Nguyen, Project Manager
tina.nguyen@eurofinset.com

Designee for

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Job ID: 570-66742-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-66742-1

Comments

No additional comments.

Receipt

The samples were received on 8/10/2021 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

GC Semi VOA

Method 8082: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: SB-15-4 (570-66742-1), SB-17-2 (570-66742-8), SB-18-2 (570-66742-12) and SB-18-4 (570-66742-13). The sample(s) has been quantified and reported as Aroclor 1248 and 1254. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method 8082: Surrogate recovery for the following sample was outside control limits: SB-17-2 (570-66742-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-15-4
Date Collected: 08/10/21 07:25
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/12/21 04:52	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/12/21 04:52	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/12/21 04:52	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/12/21 04:52	1
Aroclor-1248	3200		500	ug/Kg		08/11/21 07:01	08/12/21 12:39	10
Aroclor-1254	9200		500	ug/Kg		08/11/21 07:01	08/12/21 12:39	10
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/12/21 04:52	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/12/21 04:52	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/12/21 04:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			08/11/21 07:01	08/12/21 04:52	1
<i>Tetrachloro-m-xylene (Surr)</i>	83		25 - 126			08/11/21 07:01	08/12/21 12:39	10
<i>DCB Decachlorobiphenyl (Surr)</i>	101		20 - 155			08/11/21 07:01	08/12/21 04:52	1
<i>DCB Decachlorobiphenyl (Surr)</i>	114		20 - 155			08/11/21 07:01	08/12/21 12:39	10

Client Sample ID: SB-16-2
Date Collected: 08/10/21 07:46
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Aroclor-1248	ND		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Aroclor-1254	270		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/12/21 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	80		25 - 126			08/11/21 07:01	08/12/21 05:10	1
<i>DCB Decachlorobiphenyl (Surr)</i>	83		20 - 155			08/11/21 07:01	08/12/21 05:10	1

Client Sample ID: SB-16-4
Date Collected: 08/10/21 07:47
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Aroclor-1221	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Aroclor-1232	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Aroclor-1242	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Aroclor-1248	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Aroclor-1254	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Aroclor-1260	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Aroclor-1262	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Aroclor-1268	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	73		25 - 126			08/11/21 07:01	08/12/21 05:28	1
<i>DCB Decachlorobiphenyl (Surr)</i>	78		20 - 155			08/11/21 07:01	08/12/21 05:28	1

Eurofins Calscience LLC

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-17-2
Date Collected: 08/10/21 08:11
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:46	1
Aroclor-1221	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:46	1
Aroclor-1232	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:46	1
Aroclor-1242	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:46	1
Aroclor-1248	20000		4900	ug/Kg		08/11/21 07:01	08/12/21 12:57	100
Aroclor-1254	28000		4900	ug/Kg		08/11/21 07:01	08/12/21 12:57	100
Aroclor-1260	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:46	1
Aroclor-1262	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:46	1
Aroclor-1268	ND		49	ug/Kg		08/11/21 07:01	08/12/21 05:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	80		25 - 126			08/11/21 07:01	08/12/21 05:46	1
<i>Tetrachloro-m-xylene (Surr)</i>	135	S1+	25 - 126			08/11/21 07:01	08/12/21 12:57	100
<i>DCB Decachlorobiphenyl (Surr)</i>	103		20 - 155			08/11/21 07:01	08/12/21 05:46	1
<i>DCB Decachlorobiphenyl (Surr)</i>	203	S1+	20 - 155			08/11/21 07:01	08/12/21 12:57	100

Client Sample ID: SB-17-4
Date Collected: 08/10/21 08:12
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Aroclor-1248	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Aroclor-1254	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	80		25 - 126			08/11/21 07:01	08/12/21 06:22	1
<i>DCB Decachlorobiphenyl (Surr)</i>	83		20 - 155			08/11/21 07:01	08/12/21 06:22	1

Client Sample ID: SB-18-2
Date Collected: 08/10/21 08:42
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Aroclor-1248	540		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Aroclor-1254	700		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			08/11/21 07:01	08/12/21 06:40	1
<i>DCB Decachlorobiphenyl (Surr)</i>	78		20 - 155			08/11/21 07:01	08/12/21 06:40	1

Eurofins Calscience LLC

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-18-4
Date Collected: 08/10/21 08:43
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Aroclor-1248	340		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Aroclor-1254	450		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/12/21 06:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			08/11/21 07:01	08/12/21 06:58	1
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			08/11/21 07:01	08/12/21 06:58	1

Client Sample ID: SB-19-4
Date Collected: 08/10/21 09:29
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Aroclor-1248	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Aroclor-1254	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	81		25 - 126			08/11/21 07:01	08/12/21 07:16	1
<i>DCB Decachlorobiphenyl (Surr)</i>	86		20 - 155			08/11/21 07:01	08/12/21 07:16	1

Client Sample ID: SB-20-2
Date Collected: 08/10/21 10:20
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Aroclor-1248	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Aroclor-1254	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	83		25 - 126			08/11/21 07:01	08/12/21 07:34	1
<i>DCB Decachlorobiphenyl (Surr)</i>	86		20 - 155			08/11/21 07:01	08/12/21 07:34	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-20-4
Date Collected: 08/10/21 10:27
Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Aroclor-1248	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Aroclor-1254	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/12/21 07:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	84		25 - 126			08/11/21 07:01	08/12/21 07:51	1
DCB Decachlorobiphenyl (Surr)	88		20 - 155			08/11/21 07:01	08/12/21 07:51	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-66742-1	SB-15-4	72	101
570-66742-1	SB-15-4	83	114
570-66742-4	SB-16-2	80	83
570-66742-5	SB-16-4	73	78
570-66742-8	SB-17-2	80	103
570-66742-8	SB-17-2	135 S1+	203 S1+
570-66742-9	SB-17-4	80	83
570-66742-9 MS	SB-17-4	79	78
570-66742-9 MSD	SB-17-4	84	85
570-66742-12	SB-18-2	72	78
570-66742-13	SB-18-4	72	76
570-66742-16	SB-19-4	81	86
570-66742-19	SB-20-2	83	86
570-66742-20	SB-20-4	84	88
LCS 570-170363/2-A	Lab Control Sample	94	98
LCSD 570-170363/3-A	Lab Control Sample Dup	92	96
MB 570-170363/1-A	Method Blank	98	100

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-170363/1-A
Matrix: Solid
Analysis Batch: 170601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170363

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1
Aroclor-1221	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1
Aroclor-1232	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1
Aroclor-1242	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1
Aroclor-1248	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1
Aroclor-1254	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1
Aroclor-1260	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1
Aroclor-1262	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1
Aroclor-1268	ND		50	ug/Kg		08/11/21 07:01	08/11/21 22:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	98		25 - 126	08/11/21 07:01	08/11/21 22:17	1
DCB Decachlorobiphenyl (Surr)	100		20 - 155	08/11/21 07:01	08/11/21 22:17	1

Lab Sample ID: LCS 570-170363/2-A
Matrix: Solid
Analysis Batch: 170601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170363

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor-1016	100	101.9		ug/Kg		102	50 - 142
Aroclor-1260	100	112.7		ug/Kg		113	50 - 150

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	94		25 - 126
DCB Decachlorobiphenyl (Surr)	98		20 - 155

Lab Sample ID: LCSD 570-170363/3-A
Matrix: Solid
Analysis Batch: 170601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170363

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Aroclor-1016	100	103.5		ug/Kg		104	50 - 142	2	30
Aroclor-1260	100	115.2		ug/Kg		115	50 - 150	2	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	92		25 - 126
DCB Decachlorobiphenyl (Surr)	96		20 - 155

Lab Sample ID: 570-66742-9 MS
Matrix: Solid
Analysis Batch: 170601

Client Sample ID: SB-17-4
Prep Type: Total/NA
Prep Batch: 170363

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aroclor-1016	ND		100	86.61		ug/Kg		86	20 - 175
Aroclor-1260	ND		100	92.66		ug/Kg		92	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-66742-9 MS
Matrix: Solid
Analysis Batch: 170601

Client Sample ID: SB-17-4
Prep Type: Total/NA
Prep Batch: 170363

<u>Surrogate</u>	<u>MS MS</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
<i>Tetrachloro-m-xylene (Surr)</i>	79		25 - 126
<i>DCB Decachlorobiphenyl (Surr)</i>	78		20 - 155

Lab Sample ID: 570-66742-9 MSD
Matrix: Solid
Analysis Batch: 170601

Client Sample ID: SB-17-4
Prep Type: Total/NA
Prep Batch: 170363

<u>Analyte</u>	<u>Sample</u>	<u>Sample</u>	<u>Spike</u>	<u>MSD MSD</u>		<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u>		<u>RPD</u>	
	<u>Result</u>	<u>Qualifier</u>		<u>Result</u>	<u>Qualifier</u>				<u>Limits</u>	<u>RPD</u>	<u>Limit</u>	
Aroclor-1016	ND		99.1	93.05		ug/Kg		94	20 - 175	7	40	
Aroclor-1260	ND		99.1	102.3		ug/Kg		103	20 - 180	10	40	

<u>Surrogate</u>	<u>MSD MSD</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
<i>Tetrachloro-m-xylene (Surr)</i>	84		25 - 126
<i>DCB Decachlorobiphenyl (Surr)</i>	85		20 - 155

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

GC Semi VOA

Prep Batch: 170363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66742-1	SB-15-4	Total/NA	Solid	3546	
570-66742-4	SB-16-2	Total/NA	Solid	3546	
570-66742-5	SB-16-4	Total/NA	Solid	3546	
570-66742-8	SB-17-2	Total/NA	Solid	3546	
570-66742-9	SB-17-4	Total/NA	Solid	3546	
570-66742-12	SB-18-2	Total/NA	Solid	3546	
570-66742-13	SB-18-4	Total/NA	Solid	3546	
570-66742-16	SB-19-4	Total/NA	Solid	3546	
570-66742-19	SB-20-2	Total/NA	Solid	3546	
570-66742-20	SB-20-4	Total/NA	Solid	3546	
MB 570-170363/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-170363/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-170363/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-66742-9 MS	SB-17-4	Total/NA	Solid	3546	
570-66742-9 MSD	SB-17-4	Total/NA	Solid	3546	

Analysis Batch: 170601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66742-1	SB-15-4	Total/NA	Solid	8082	170363
570-66742-1	SB-15-4	Total/NA	Solid	8082	170363
570-66742-4	SB-16-2	Total/NA	Solid	8082	170363
570-66742-5	SB-16-4	Total/NA	Solid	8082	170363
570-66742-8	SB-17-2	Total/NA	Solid	8082	170363
570-66742-8	SB-17-2	Total/NA	Solid	8082	170363
570-66742-9	SB-17-4	Total/NA	Solid	8082	170363
570-66742-12	SB-18-2	Total/NA	Solid	8082	170363
570-66742-13	SB-18-4	Total/NA	Solid	8082	170363
570-66742-16	SB-19-4	Total/NA	Solid	8082	170363
570-66742-19	SB-20-2	Total/NA	Solid	8082	170363
570-66742-20	SB-20-4	Total/NA	Solid	8082	170363
MB 570-170363/1-A	Method Blank	Total/NA	Solid	8082	170363
LCS 570-170363/2-A	Lab Control Sample	Total/NA	Solid	8082	170363
LCSD 570-170363/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	170363
570-66742-9 MS	SB-17-4	Total/NA	Solid	8082	170363
570-66742-9 MSD	SB-17-4	Total/NA	Solid	8082	170363

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Client Sample ID: SB-15-4

Date Collected: 08/10/21 07:25

Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.20 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 04:52	UJ3K	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.20 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		10			170601	08/12/21 12:39	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-16-2

Date Collected: 08/10/21 07:46

Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 05:10	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-16-4

Date Collected: 08/10/21 07:47

Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.30 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 05:28	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-17-2

Date Collected: 08/10/21 08:11

Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.28 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 05:46	UJ3K	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.28 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		100			170601	08/12/21 12:57	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-17-4

Date Collected: 08/10/21 08:12

Date Received: 08/10/21 14:53

Lab Sample ID: 570-66742-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.10 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 06:22	UJ3K	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Client Sample ID: SB-18-2

Lab Sample ID: 570-66742-12

Date Collected: 08/10/21 08:42

Matrix: Solid

Date Received: 08/10/21 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 06:40	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-18-4

Lab Sample ID: 570-66742-13

Date Collected: 08/10/21 08:43

Matrix: Solid

Date Received: 08/10/21 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 06:58	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-19-4

Lab Sample ID: 570-66742-16

Date Collected: 08/10/21 09:29

Matrix: Solid

Date Received: 08/10/21 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 07:16	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-20-2

Lab Sample ID: 570-66742-19

Date Collected: 08/10/21 10:20

Matrix: Solid

Date Received: 08/10/21 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.07 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 07:34	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-20-4

Lab Sample ID: 570-66742-20

Date Collected: 08/10/21 10:27

Matrix: Solid

Date Received: 08/10/21 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	170363	08/11/21 07:01	F7UI	ECL 1
Total/NA	Analysis	8082		1			170601	08/12/21 07:51	UJ3K	ECL 1
Instrument ID: GC58										

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-21

- 1
- 2
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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-66742-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-66742-1	SB-15-4	Solid	08/10/21 07:25	08/10/21 14:53
570-66742-4	SB-16-2	Solid	08/10/21 07:46	08/10/21 14:53
570-66742-5	SB-16-4	Solid	08/10/21 07:47	08/10/21 14:53
570-66742-8	SB-17-2	Solid	08/10/21 08:11	08/10/21 14:53
570-66742-9	SB-17-4	Solid	08/10/21 08:12	08/10/21 14:53
570-66742-12	SB-18-2	Solid	08/10/21 08:42	08/10/21 14:53
570-66742-13	SB-18-4	Solid	08/10/21 08:43	08/10/21 14:53
570-66742-16	SB-19-4	Solid	08/10/21 09:29	08/10/21 14:53
570-66742-19	SB-20-2	Solid	08/10/21 10:20	08/10/21 14:53
570-66742-20	SB-20-4	Solid	08/10/21 10:27	08/10/21 14:53

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- 12
- 13
- 14



Calscience



570-66742 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 8/10/2021

PAGE: OF 3

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: Geosyntec Consultants						CLIENT PROJECT NAME / NUMBER: Batavia/SC1123113						P.O. NO: 10002860												
ADDRESS: 16644 West Bernardo Drive						PROJECT CONTACT: Brian Rockwell						SAMPLER(S) (PRINT): Emily Imperato												
CITY: San Diego			STATE: Ca			ZIP: 92127																		
TEL: 619-309-9549			E-MAIL: BRockwell@geosyntec.com			REQUESTED ANALYSES Please check box or fill in blank as needed																		
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input checked="" type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> STANDARD																								
<input type="checkbox"/> COELT EDF		GLOBAL ID:		LOG CODE:																				
SPECIAL INSTRUCTIONS:																								
LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010747X <input type="checkbox"/> 6020747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	Weld	
		DATE	TIME																					
1	SB-15-4	8/10/21	0725	Soil	1	X																		
2	SB-15-8	8/10/21	0727																					X
3	SB-15-12		0729																					X
4	SB-16-2		0746																	X				
5	SB-16-4		0747																	X				
6	SB-16-8		0749																					X
7	SB-16-12		0753																					X
8	SB-17-2		0811																	X				
9	SB-17-4		0812																	X				
10	SB-17-8		0814																					X
Relinquished by (Signature): <i>Cuy lmta</i>						Received by (Signature/Affiliation): <i>Y-EC</i>						Date: 8/10/21		Time: 14:53										
Relinquished by (Signature):						Received by (Signature/Affiliation):						Date:		Time:										
Relinquished by (Signature):						Received by (Signature/Affiliation):						Date:		Time:										

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8/12/2021





Calscience

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CHAIN OF CUSTODY RECORD

DATE: 8/10/2021
PAGE: 2 OF 3

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LABORATORY CLIENT: Geosyntec Consultants					CLIENT PROJECT NAME / NUMBER: Batavia/SC1123/13					P.O. NO: 10002860													
ADDRESS: 16644 West Bernardo Drive					PROJECT CONTACT: Brian Rockwell					SAMPLER(S) (PRINT): Emily Imperato													
CITY: San Diego			STATE: Ca		ZIP: 92127																		
TEL: 619-309-9549		E-MAIL: Brockwell@geosyntec.com			REQUESTED ANALYSES																		
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input checked="" type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> STANDARD										Please check box or fill in blank as needed													
<input type="checkbox"/> COELT EDF		GLOBAL ID:			LOG CODE:																		
SPECIAL INSTRUCTIONS:					Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs. <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals. <input type="checkbox"/> 6010747X <input type="checkbox"/> 6020747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6		
LAB USE ONLY	SAMPLE ID	DATE	TIME	MATRIX	NO. OF CONT.																		
11	SB-17-12	8/10/21	0817	Soil	1	X																	
12	SB-18-2		0842														X						
13	SB-18-4		0843														X						
14	SB-18-8		0846																			X	
15	SB-18-12		0851																			X	
16	SB-19-4		0929														X						
17	SB-19-8		0931																			X	
18	SB-19-12		0937																			X	
19	SB-20-2		1020														X						
20	SB-20-4		1027														X						
Relinquished by: (Signature) <i>any auto</i>					Received by: (Signature/Affiliation) <i>JANEL</i>					Date: 8/10/21		Time: 14:53											
Relinquished by: (Signature)					Received by: (Signature/Affiliation)					Date		Time											
Relinquished by: (Signature)					Received by: (Signature/Affiliation)					Date		Time											

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8/12/2021





Calscience

CHAIN OF CUSTODY RECORD

DATE: 8/10/2021

PAGE: 3 OF 3

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: Geosyntec consultants
ADDRESS: 16644 West Bernardo Dr.
CITY: San Diego STATE: Ca ZIP: 92127
TEL: 619-309-9549 E-MAIL: Brockwell@geosyntec.com
CLIENT PROJECT NAME / NUMBER: Batavia/SC1123/13
PROJECT CONTACT: Brian Brockwell
P O NO: 1000 2860
SAMPLER(S) (PRINT): Emily Imperato

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
[] SAME DAY [] 24 HR [x] 48 HR [] 72 HR [] 5 DAYS [] STANDARD
[] COELT EDF GLOBAL ID: LOG CODE:
SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Table with columns for various analytes: TPH(g), GRO, DRO, C6-C44, BTEX/MTBE, VOCs, Oxygenates, Prep, SVOCs, Pesticides, PCBs, PAHs, T22 Metals, Cr(VI). Includes checkboxes and handwritten 'NOID' in the Cr(VI) column.

Table with columns: LAB USE ONLY, SAMPLE ID, SAMPLING (DATE, TIME), MATRIX, NO. OF CONT., Unpreserved, Preserved, Field Filtered. Contains two rows of sample data.

Relinquished by: (Signature) Date: 8/10/21 Time: 14:53
Received by: (Signature/Affiliation)
Received by: (Signature/Affiliation)
Received by: (Signature/Affiliation)

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8/12/2021



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-66742-1

Login Number: 66742

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-71564-1
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
10/6/2021 11:50:39 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Job ID: 570-71564-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-71564-1

Comments

No additional comments.

Receipt

The samples were received on 9/30/2021 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-21-2

Lab Sample ID: 570-71564-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	250		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-21-4

Lab Sample ID: 570-71564-2

No Detections.

Client Sample ID: SB-22-2

Lab Sample ID: 570-71564-4

No Detections.

Client Sample ID: SB-22-4

Lab Sample ID: 570-71564-5

No Detections.

Client Sample ID: SB-23-2

Lab Sample ID: 570-71564-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	84		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-23-4

Lab Sample ID: 570-71564-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	340		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-30-2

Lab Sample ID: 570-71564-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	210		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-30-4

Lab Sample ID: 570-71564-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	230		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-24-2

Lab Sample ID: 570-71564-13

No Detections.

Client Sample ID: SB-24-4

Lab Sample ID: 570-71564-14

No Detections.

Client Sample ID: SB-25-2

Lab Sample ID: 570-71564-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	53		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-25-4

Lab Sample ID: 570-71564-17

No Detections.

Client Sample ID: SB-26-2

Lab Sample ID: 570-71564-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	720		50	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-26-4

Lab Sample ID: 570-71564-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	130		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-27-2

Lab Sample ID: 570-71564-22

No Detections.

Client Sample ID: SB-27-4

Lab Sample ID: 570-71564-23

No Detections.

Client Sample ID: SB-28-2

Lab Sample ID: 570-71564-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	71		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-28-4

Lab Sample ID: 570-71564-26

No Detections.

Client Sample ID: SB-29-2

Lab Sample ID: 570-71564-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	21000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-29-4

Lab Sample ID: 570-71564-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	120000		9900	ug/Kg	200		8082	Total/NA

Client Sample ID: SB-31-2

Lab Sample ID: 570-71564-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	15000		990	ug/Kg	20		8082	Total/NA

Client Sample ID: SB-31-4

Lab Sample ID: 570-71564-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	6400		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-32-2

Lab Sample ID: 570-71564-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	570		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-32-4

Lab Sample ID: 570-71564-35

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	320		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-33-2

Lab Sample ID: 570-71564-37

No Detections.

Client Sample ID: SB-33-4

Lab Sample ID: 570-71564-38

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	92		50	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-34-2

Lab Sample ID: 570-71564-40

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	290		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-34-4

Lab Sample ID: 570-71564-41

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	63		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-35-2

Lab Sample ID: 570-71564-43

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	27000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-35-4

Lab Sample ID: 570-71564-44

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	170		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-36-2

Lab Sample ID: 570-71564-46

No Detections.

Client Sample ID: SB-36-4

Lab Sample ID: 570-71564-47

No Detections.

Client Sample ID: SB-37-2

Lab Sample ID: 570-71564-49

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	54000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-37-4

Lab Sample ID: 570-71564-50

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	110		48	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-21-2
Date Collected: 09/30/21 07:55
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F2 F1	50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Aroclor-1221	ND		50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Aroclor-1232	ND		50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Aroclor-1242	ND		50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Aroclor-1248	250		50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Aroclor-1254	ND		50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Aroclor-1260	ND		50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Aroclor-1262	ND		50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Aroclor-1268	ND		50	ug/Kg	-	10/01/21 15:03	10/05/21 11:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			10/01/21 15:03	10/05/21 11:43	1
<i>DCB Decachlorobiphenyl (Surr)</i>	72		20 - 155			10/01/21 15:03	10/05/21 11:43	1

Client Sample ID: SB-21-4
Date Collected: 09/30/21 07:55
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Aroclor-1221	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Aroclor-1232	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Aroclor-1242	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Aroclor-1248	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Aroclor-1254	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Aroclor-1260	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Aroclor-1262	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Aroclor-1268	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	70		25 - 126			10/01/21 15:03	10/04/21 20:33	1
<i>DCB Decachlorobiphenyl (Surr)</i>	70		20 - 155			10/01/21 15:03	10/04/21 20:33	1

Client Sample ID: SB-22-2
Date Collected: 09/30/21 08:20
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Aroclor-1221	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Aroclor-1232	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Aroclor-1242	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Aroclor-1248	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Aroclor-1254	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Aroclor-1260	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Aroclor-1262	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Aroclor-1268	ND		50	ug/Kg	-	10/01/21 15:03	10/04/21 20:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	76		25 - 126			10/01/21 15:03	10/04/21 20:52	1
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			10/01/21 15:03	10/04/21 20:52	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-22-4
Date Collected: 09/30/21 08:20
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126			10/01/21 15:03	10/04/21 21:11	1
DCB Decachlorobiphenyl (Surr)	80		20 - 155			10/01/21 15:03	10/04/21 21:11	1

Client Sample ID: SB-23-2
Date Collected: 09/30/21 08:50
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Aroclor-1248	84		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/04/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	88		25 - 126			10/01/21 15:03	10/04/21 21:49	1
DCB Decachlorobiphenyl (Surr)	80		20 - 155			10/01/21 15:03	10/04/21 21:49	1

Client Sample ID: SB-23-4
Date Collected: 09/30/21 08:50
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Aroclor-1248	340		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	65		25 - 126			10/01/21 15:03	10/04/21 22:08	1
DCB Decachlorobiphenyl (Surr)	66		20 - 155			10/01/21 15:03	10/04/21 22:08	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-30-2
Date Collected: 09/30/21 10:41
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Aroclor-1248	210		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	74		25 - 126			10/01/21 15:03	10/04/21 22:27	1
<i>DCB Decachlorobiphenyl (Surr)</i>	77		20 - 155			10/01/21 15:03	10/04/21 22:27	1

Client Sample ID: SB-30-4
Date Collected: 09/30/21 10:41
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Aroclor-1248	230		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/04/21 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	68		25 - 126			10/01/21 15:03	10/04/21 22:46	1
<i>DCB Decachlorobiphenyl (Surr)</i>	72		20 - 155			10/01/21 15:03	10/04/21 22:46	1

Client Sample ID: SB-24-2
Date Collected: 09/30/21 09:08
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	66		25 - 126			10/01/21 15:03	10/04/21 23:05	1
<i>DCB Decachlorobiphenyl (Surr)</i>	73		20 - 155			10/01/21 15:03	10/04/21 23:05	1

Eurofins Calscience LLC

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-24-4
Date Collected: 09/30/21 09:08
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	77		25 - 126			10/01/21 15:03	10/04/21 23:24	1
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			10/01/21 15:03	10/04/21 23:24	1

Client Sample ID: SB-25-2
Date Collected: 09/30/21 09:18
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Aroclor-1248	53		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/04/21 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	97		25 - 126			10/01/21 15:03	10/04/21 23:43	1
<i>DCB Decachlorobiphenyl (Surr)</i>	99		20 - 155			10/01/21 15:03	10/04/21 23:43	1

Client Sample ID: SB-25-4
Date Collected: 09/30/21 09:18
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-17
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	70		25 - 126			10/01/21 15:03	10/05/21 00:02	1
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			10/01/21 15:03	10/05/21 00:02	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-26-2
Date Collected: 09/30/21 09:34
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Aroclor-1248	720		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	61		25 - 126			10/01/21 15:03	10/05/21 00:21	1
<i>DCB Decachlorobiphenyl (Surr)</i>	61		20 - 155			10/01/21 15:03	10/05/21 00:21	1

Client Sample ID: SB-26-4
Date Collected: 09/30/21 09:34
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Aroclor-1248	130		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 00:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	70		25 - 126			10/01/21 15:03	10/05/21 00:40	1
<i>DCB Decachlorobiphenyl (Surr)</i>	75		20 - 155			10/01/21 15:03	10/05/21 00:40	1

Client Sample ID: SB-27-2
Date Collected: 09/30/21 09:49
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	75		25 - 126			10/01/21 15:03	10/05/21 01:00	1
<i>DCB Decachlorobiphenyl (Surr)</i>	81		20 - 155			10/01/21 15:03	10/05/21 01:00	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-27-4
Date Collected: 09/30/21 09:49
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-23
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	71		25 - 126			10/01/21 15:03	10/05/21 01:19	1
DCB Decachlorobiphenyl (Surr)	79		20 - 155			10/01/21 15:03	10/05/21 01:19	1

Client Sample ID: SB-28-2
Date Collected: 09/30/21 10:00
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-25
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Aroclor-1248	71		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	72		25 - 126			10/01/21 15:03	10/05/21 01:38	1
DCB Decachlorobiphenyl (Surr)	65		20 - 155			10/01/21 15:03	10/05/21 01:38	1

Client Sample ID: SB-28-4
Date Collected: 09/30/21 10:00
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-26
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	84		25 - 126			10/01/21 15:03	10/05/21 01:57	1
DCB Decachlorobiphenyl (Surr)	88		20 - 155			10/01/21 15:03	10/05/21 01:57	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-29-2
Date Collected: 09/30/21 10:25
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-28
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:16	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:16	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:16	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:16	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:16	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:16	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:16	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	76		25 - 126			10/01/21 15:03	10/05/21 02:16	1
DCB Decachlorobiphenyl (Surr)	84		20 - 155			10/01/21 15:03	10/05/21 02:16	1

Client Sample ID: SB-29-4
Date Collected: 09/30/21 10:25
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-29
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:35	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:35	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:35	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:35	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:35	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:35	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:35	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:03	10/05/21 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	71		25 - 126			10/01/21 15:03	10/05/21 02:35	1
DCB Decachlorobiphenyl (Surr)	97		20 - 155			10/01/21 15:03	10/05/21 02:35	1

Client Sample ID: SB-31-2
Date Collected: 09/30/21 11:00
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-31
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F1	49	ug/Kg		10/01/21 15:05	10/05/21 12:23	1
Aroclor-1221	ND		49	ug/Kg		10/01/21 15:05	10/05/21 12:23	1
Aroclor-1232	ND		49	ug/Kg		10/01/21 15:05	10/05/21 12:23	1
Aroclor-1242	ND		49	ug/Kg		10/01/21 15:05	10/05/21 12:23	1
Aroclor-1254	ND		49	ug/Kg		10/01/21 15:05	10/05/21 12:23	1
Aroclor-1260	ND	F2	49	ug/Kg		10/01/21 15:05	10/05/21 12:23	1
Aroclor-1262	ND		49	ug/Kg		10/01/21 15:05	10/05/21 12:23	1
Aroclor-1268	ND		49	ug/Kg		10/01/21 15:05	10/05/21 12:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	106		25 - 126			10/01/21 15:05	10/05/21 12:23	1
DCB Decachlorobiphenyl (Surr)	94		20 - 155			10/01/21 15:05	10/05/21 12:23	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-31-4
Date Collected: 09/30/21 11:00
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-32
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:05	10/05/21 12:59	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:05	10/05/21 12:59	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:05	10/05/21 12:59	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:05	10/05/21 12:59	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:05	10/05/21 12:59	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:05	10/05/21 12:59	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:05	10/05/21 12:59	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:05	10/05/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		25 - 126			10/01/21 15:05	10/05/21 12:59	1
DCB Decachlorobiphenyl (Surr)	85		20 - 155			10/01/21 15:05	10/05/21 12:59	1

Client Sample ID: SB-32-2
Date Collected: 09/30/21 11:15
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-34
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Aroclor-1221	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Aroclor-1232	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Aroclor-1242	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Aroclor-1248	570		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Aroclor-1254	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Aroclor-1260	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Aroclor-1262	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Aroclor-1268	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	72		25 - 126			10/01/21 15:05	10/05/21 13:17	1
DCB Decachlorobiphenyl (Surr)	74		20 - 155			10/01/21 15:05	10/05/21 13:17	1

Client Sample ID: SB-32-4
Date Collected: 09/30/21 11:15
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-35
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Aroclor-1221	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Aroclor-1232	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Aroclor-1242	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Aroclor-1248	320		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Aroclor-1254	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Aroclor-1260	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Aroclor-1262	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Aroclor-1268	ND		49	ug/Kg		10/01/21 15:05	10/05/21 13:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	79		25 - 126			10/01/21 15:05	10/05/21 13:35	1
DCB Decachlorobiphenyl (Surr)	82		20 - 155			10/01/21 15:05	10/05/21 13:35	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-33-2
Date Collected: 09/30/21 11:30
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-37
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:05	10/05/21 13:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	76		25 - 126			10/01/21 15:05	10/05/21 13:53	1
DCB Decachlorobiphenyl (Surr)	73		20 - 155			10/01/21 15:05	10/05/21 13:53	1

Client Sample ID: SB-33-4
Date Collected: 09/30/21 11:30
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-38
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Aroclor-1248	92		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:05	10/05/21 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			10/01/21 15:05	10/05/21 14:11	1
DCB Decachlorobiphenyl (Surr)	69		20 - 155			10/01/21 15:05	10/05/21 14:11	1

Client Sample ID: SB-34-2
Date Collected: 09/30/21 11:50
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-40
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Aroclor-1221	ND		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Aroclor-1232	ND		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Aroclor-1242	ND		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Aroclor-1248	290		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Aroclor-1254	ND		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Aroclor-1260	ND		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Aroclor-1262	ND		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Aroclor-1268	ND		49	ug/Kg		10/01/21 15:05	10/05/21 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	71		25 - 126			10/01/21 15:05	10/05/21 14:29	1
DCB Decachlorobiphenyl (Surr)	68		20 - 155			10/01/21 15:05	10/05/21 14:29	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-34-4
Date Collected: 09/30/21 11:50
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-41
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Aroclor-1221	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Aroclor-1232	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Aroclor-1242	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Aroclor-1248	63		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Aroclor-1254	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Aroclor-1260	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Aroclor-1262	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Aroclor-1268	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	73		25 - 126			10/01/21 15:05	10/05/21 15:05	1
<i>DCB Decachlorobiphenyl (Surr)</i>	71		20 - 155			10/01/21 15:05	10/05/21 15:05	1

Client Sample ID: SB-35-2
Date Collected: 09/30/21 12:25
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-43
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:23	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:23	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:23	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:23	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:23	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:23	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:23	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	57		25 - 126			10/01/21 15:05	10/05/21 15:23	1
<i>DCB Decachlorobiphenyl (Surr)</i>	101		20 - 155			10/01/21 15:05	10/05/21 15:23	1

Client Sample ID: SB-35-4
Date Collected: 09/30/21 12:25
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-44
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Aroclor-1248	170		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:05	10/05/21 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	78		25 - 126			10/01/21 15:05	10/05/21 15:41	1
<i>DCB Decachlorobiphenyl (Surr)</i>	77		20 - 155			10/01/21 15:05	10/05/21 15:41	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-36-2
Date Collected: 09/30/21 12:48
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-46
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Aroclor-1221	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Aroclor-1232	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Aroclor-1242	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Aroclor-1248	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Aroclor-1254	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Aroclor-1260	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Aroclor-1262	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Aroclor-1268	ND		49	ug/Kg		10/01/21 15:05	10/05/21 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			10/01/21 15:05	10/05/21 15:59	1
<i>DCB Decachlorobiphenyl (Surr)</i>	70		20 - 155			10/01/21 15:05	10/05/21 15:59	1

Client Sample ID: SB-36-4
Date Collected: 09/30/21 12:48
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-47
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Aroclor-1221	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Aroclor-1232	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Aroclor-1242	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Aroclor-1248	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Aroclor-1254	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Aroclor-1260	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Aroclor-1262	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Aroclor-1268	ND		49	ug/Kg		10/01/21 15:05	10/05/21 16:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	70		25 - 126			10/01/21 15:05	10/05/21 16:17	1
<i>DCB Decachlorobiphenyl (Surr)</i>	66		20 - 155			10/01/21 15:05	10/05/21 16:17	1

Client Sample ID: SB-37-2
Date Collected: 09/30/21 13:02
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-49
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:05	10/05/21 16:35	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:05	10/05/21 16:35	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:05	10/05/21 16:35	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:05	10/05/21 16:35	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:05	10/05/21 16:35	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:05	10/05/21 16:35	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:05	10/05/21 16:35	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:05	10/05/21 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	115		25 - 126			10/01/21 15:05	10/05/21 16:35	1
<i>DCB Decachlorobiphenyl (Surr)</i>	100		20 - 155			10/01/21 15:05	10/05/21 16:35	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-37-4
Date Collected: 09/30/21 13:02
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-50
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Aroclor-1221	ND		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Aroclor-1232	ND		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Aroclor-1242	ND		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Aroclor-1248	110		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Aroclor-1254	ND		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Aroclor-1260	ND		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Aroclor-1262	ND		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Aroclor-1268	ND		48	ug/Kg		10/01/21 15:05	10/05/21 16:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	79		25 - 126			10/01/21 15:05	10/05/21 16:53	1
DCB Decachlorobiphenyl (Surr)	78		20 - 155			10/01/21 15:05	10/05/21 16:53	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-29-2

Date Collected: 09/30/21 10:25

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-28

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	21000		5000	ug/Kg		10/01/21 15:03	10/05/21 16:30	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	108		25 - 126			10/01/21 15:03	10/05/21 16:30	100
DCB Decachlorobiphenyl (Surr)	113		20 - 155			10/01/21 15:03	10/05/21 16:30	100

Client Sample ID: SB-29-4

Date Collected: 09/30/21 10:25

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-29

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	120000		9900	ug/Kg		10/01/21 15:03	10/05/21 16:49	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	103		25 - 126			10/01/21 15:03	10/05/21 16:49	200
DCB Decachlorobiphenyl (Surr)	101		20 - 155			10/01/21 15:03	10/05/21 16:49	200

Client Sample ID: SB-31-2

Date Collected: 09/30/21 11:00

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-31

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	15000		990	ug/Kg		10/01/21 15:05	10/05/21 21:40	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	87		25 - 126			10/01/21 15:05	10/05/21 21:40	20
DCB Decachlorobiphenyl (Surr)	119		20 - 155			10/01/21 15:05	10/05/21 21:40	20

Client Sample ID: SB-31-4

Date Collected: 09/30/21 11:00

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-32

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	6400		500	ug/Kg		10/01/21 15:05	10/05/21 21:58	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		25 - 126			10/01/21 15:05	10/05/21 21:58	10
DCB Decachlorobiphenyl (Surr)	88		20 - 155			10/01/21 15:05	10/05/21 21:58	10

Client Sample ID: SB-35-2

Date Collected: 09/30/21 12:25

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-43

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	27000		5000	ug/Kg		10/01/21 15:05	10/05/21 22:16	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	102		25 - 126			10/01/21 15:05	10/05/21 22:16	100
DCB Decachlorobiphenyl (Surr)	128		20 - 155			10/01/21 15:05	10/05/21 22:16	100

Client Sample ID: SB-37-2

Date Collected: 09/30/21 13:02

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-49

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	54000		5000	ug/Kg		10/01/21 15:05	10/06/21 08:51	100

Eurofins Calscience LLC

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
<i>Tetrachloro-m-xylene (Surr)</i>	92		25 - 126	10/01/21 15:05	10/06/21 08:51	100
<i>DCB Decachlorobiphenyl (Surr)</i>	129		20 - 155	10/01/21 15:05	10/06/21 08:51	100

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Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-71564-1	SB-21-2	71	72
570-71564-1 MS	SB-21-2	80	78
570-71564-1 MSD	SB-21-2	90	92
570-71564-2	SB-21-4	70	70
570-71564-4	SB-22-2	76	76
570-71564-5	SB-22-4	78	80
570-71564-7	SB-23-2	88	80
570-71564-8	SB-23-4	65	66
570-71564-10	SB-30-2	74	77
570-71564-11	SB-30-4	68	72
570-71564-13	SB-24-2	66	73
570-71564-14	SB-24-4	77	76
570-71564-16	SB-25-2	97	99
570-71564-17	SB-25-4	70	76
570-71564-19	SB-26-2	61	61
570-71564-20	SB-26-4	70	75
570-71564-22	SB-27-2	75	81
570-71564-23	SB-27-4	71	79
570-71564-25	SB-28-2	72	65
570-71564-26	SB-28-4	84	88
570-71564-28	SB-29-2	76	84
570-71564-28 - DL	SB-29-2	108	113
570-71564-29	SB-29-4	71	97
570-71564-29 - DL	SB-29-4	103	101
570-71564-31	SB-31-2	106	94
570-71564-31 - DL	SB-31-2	87	119
570-71564-31 MS	SB-31-2	69	71
570-71564-31 MSD	SB-31-2	59	68
570-71564-32	SB-31-4	74	85
570-71564-32 - DL	SB-31-4	74	88
570-71564-34	SB-32-2	72	74
570-71564-35	SB-32-4	79	82
570-71564-37	SB-33-2	76	73
570-71564-38	SB-33-4	73	69
570-71564-40	SB-34-2	71	68
570-71564-41	SB-34-4	73	71
570-71564-43	SB-35-2	57	101
570-71564-43 - DL	SB-35-2	102	128
570-71564-44	SB-35-4	78	77
570-71564-46	SB-36-2	72	70
570-71564-47	SB-36-4	70	66
570-71564-49	SB-37-2	115	100
570-71564-49 - DL	SB-37-2	92	129
570-71564-50	SB-37-4	79	78
LCS 570-183415/2-A	Lab Control Sample	92	85
LCS 570-183416/2-A	Lab Control Sample	86	87
LCSD 570-183415/3-A	Lab Control Sample Dup	95	89
LCSD 570-183416/3-A	Lab Control Sample Dup	85	93
MB 570-183415/1-A	Method Blank	99	92

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (25-126)	DCB1 (20-155)
MB 570-183416/1-A	Method Blank	87	79

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-183415/1-A
Matrix: Solid
Analysis Batch: 183676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183415

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:02	10/04/21 19:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	99		25 - 126	10/01/21 15:02	10/04/21 19:36	1
DCB Decachlorobiphenyl (Surr)	92		20 - 155	10/01/21 15:02	10/04/21 19:36	1

Lab Sample ID: LCS 570-183415/2-A
Matrix: Solid
Analysis Batch: 183676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	100	109.3		ug/Kg		109	50 - 142
Aroclor-1260	100	108.0		ug/Kg		108	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	92		25 - 126
DCB Decachlorobiphenyl (Surr)	85		20 - 155

Lab Sample ID: LCSD 570-183415/3-A
Matrix: Solid
Analysis Batch: 183676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183415

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aroclor-1016	100	117.3		ug/Kg		117	50 - 142	7	30
Aroclor-1260	100	117.0		ug/Kg		117	50 - 150	8	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	95		25 - 126
DCB Decachlorobiphenyl (Surr)	89		20 - 155

Lab Sample ID: 570-71564-1 MS
Matrix: Solid
Analysis Batch: 184000

Client Sample ID: SB-21-2
Prep Type: Total/NA
Prep Batch: 183415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	ND	F2 F1	99.5	129.6		ug/Kg		130	20 - 175
Aroclor-1260	ND		99.5	106.0		ug/Kg		106	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-71564-1 MS
Matrix: Solid
Analysis Batch: 184000

Client Sample ID: SB-21-2
Prep Type: Total/NA
Prep Batch: 183415

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	80		25 - 126
DCB Decachlorobiphenyl (Surr)	78		20 - 155

Lab Sample ID: 570-71564-1 MSD
Matrix: Solid
Analysis Batch: 184000

Client Sample ID: SB-21-2
Prep Type: Total/NA
Prep Batch: 183415

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aroclor-1016	ND	F2 F1	99.2	223.8	F1 F2	ug/Kg		226	20 - 175	53	40	
Aroclor-1260	ND		99.2	116.0		ug/Kg		117	20 - 180	9	40	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	90		25 - 126
DCB Decachlorobiphenyl (Surr)	92		20 - 155

Lab Sample ID: MB 570-183416/1-A
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183416

Analyte	MB MB		RL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier								
Aroclor-1016	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	
Aroclor-1221	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	
Aroclor-1232	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	
Aroclor-1242	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	
Aroclor-1248	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	
Aroclor-1254	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	
Aroclor-1260	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	
Aroclor-1262	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	
Aroclor-1268	ND		50	ug/Kg		10/01/21 15:05	10/05/21 11:29		1	

Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier						
Tetrachloro-m-xylene (Surr)	87		25 - 126	10/01/21 15:05		10/05/21 11:29		1
DCB Decachlorobiphenyl (Surr)	79		20 - 155	10/01/21 15:05		10/05/21 11:29		1

Lab Sample ID: LCS 570-183416/2-A
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183416

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Aroclor-1016	100	102.0		ug/Kg		102	50 - 142	
Aroclor-1260	100	94.84		ug/Kg		95	50 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	86		25 - 126
DCB Decachlorobiphenyl (Surr)	87		20 - 155

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 570-183416/3-A
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183416

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD		
Aroclor-1016	100	109.3		ug/Kg		109	50 - 142	7	30	
Aroclor-1260	100	108.1		ug/Kg		108	50 - 150	13	30	
		LCSD LCSD								
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	85		25 - 126							
DCB Decachlorobiphenyl (Surr)	93		20 - 155							

Lab Sample ID: 570-71564-31 MS
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: SB-31-2
Prep Type: Total/NA
Prep Batch: 183416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Aroclor-1016	ND	F1	98.7	907.2	F1	ug/Kg		919	20 - 175	
Aroclor-1260	ND	F2	98.7	146.1		ug/Kg		148	20 - 180	
		MS MS								
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	69		25 - 126							
DCB Decachlorobiphenyl (Surr)	71		20 - 155							

Lab Sample ID: 570-71564-31 MSD
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: SB-31-2
Prep Type: Total/NA
Prep Batch: 183416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Aroclor-1016	ND	F1	98.9	626.0	F1	ug/Kg		633	20 - 175	37
Aroclor-1260	ND	F2	98.9	120.7	F2	ug/Kg		122	20 - 180	43
		MSD MSD								
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	59		25 - 126							
DCB Decachlorobiphenyl (Surr)	68		20 - 155							

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

GC Semi VOA

Prep Batch: 183415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-1	SB-21-2	Total/NA	Solid	3546	
570-71564-2	SB-21-4	Total/NA	Solid	3546	
570-71564-4	SB-22-2	Total/NA	Solid	3546	
570-71564-5	SB-22-4	Total/NA	Solid	3546	
570-71564-7	SB-23-2	Total/NA	Solid	3546	
570-71564-8	SB-23-4	Total/NA	Solid	3546	
570-71564-10	SB-30-2	Total/NA	Solid	3546	
570-71564-11	SB-30-4	Total/NA	Solid	3546	
570-71564-13	SB-24-2	Total/NA	Solid	3546	
570-71564-14	SB-24-4	Total/NA	Solid	3546	
570-71564-16	SB-25-2	Total/NA	Solid	3546	
570-71564-17	SB-25-4	Total/NA	Solid	3546	
570-71564-19	SB-26-2	Total/NA	Solid	3546	
570-71564-20	SB-26-4	Total/NA	Solid	3546	
570-71564-22	SB-27-2	Total/NA	Solid	3546	
570-71564-23	SB-27-4	Total/NA	Solid	3546	
570-71564-25	SB-28-2	Total/NA	Solid	3546	
570-71564-26	SB-28-4	Total/NA	Solid	3546	
570-71564-28 - DL	SB-29-2	Total/NA	Solid	3546	
570-71564-28	SB-29-2	Total/NA	Solid	3546	
570-71564-29	SB-29-4	Total/NA	Solid	3546	
570-71564-29 - DL	SB-29-4	Total/NA	Solid	3546	
MB 570-183415/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-183415/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-183415/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-71564-1 MS	SB-21-2	Total/NA	Solid	3546	
570-71564-1 MSD	SB-21-2	Total/NA	Solid	3546	

Prep Batch: 183416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-31	SB-31-2	Total/NA	Solid	3546	
570-71564-31 - DL	SB-31-2	Total/NA	Solid	3546	
570-71564-32 - DL	SB-31-4	Total/NA	Solid	3546	
570-71564-32	SB-31-4	Total/NA	Solid	3546	
570-71564-34	SB-32-2	Total/NA	Solid	3546	
570-71564-35	SB-32-4	Total/NA	Solid	3546	
570-71564-37	SB-33-2	Total/NA	Solid	3546	
570-71564-38	SB-33-4	Total/NA	Solid	3546	
570-71564-40	SB-34-2	Total/NA	Solid	3546	
570-71564-41	SB-34-4	Total/NA	Solid	3546	
570-71564-43	SB-35-2	Total/NA	Solid	3546	
570-71564-43 - DL	SB-35-2	Total/NA	Solid	3546	
570-71564-44	SB-35-4	Total/NA	Solid	3546	
570-71564-46	SB-36-2	Total/NA	Solid	3546	
570-71564-47	SB-36-4	Total/NA	Solid	3546	
570-71564-49	SB-37-2	Total/NA	Solid	3546	
570-71564-49 - DL	SB-37-2	Total/NA	Solid	3546	
570-71564-50	SB-37-4	Total/NA	Solid	3546	
MB 570-183416/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-183416/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-183416/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

GC Semi VOA (Continued)

Prep Batch: 183416 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-31 MS	SB-31-2	Total/NA	Solid	3546	
570-71564-31 MSD	SB-31-2	Total/NA	Solid	3546	

Analysis Batch: 183676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-2	SB-21-4	Total/NA	Solid	8082	183415
570-71564-4	SB-22-2	Total/NA	Solid	8082	183415
570-71564-5	SB-22-4	Total/NA	Solid	8082	183415
570-71564-7	SB-23-2	Total/NA	Solid	8082	183415
570-71564-8	SB-23-4	Total/NA	Solid	8082	183415
570-71564-10	SB-30-2	Total/NA	Solid	8082	183415
570-71564-11	SB-30-4	Total/NA	Solid	8082	183415
570-71564-13	SB-24-2	Total/NA	Solid	8082	183415
570-71564-14	SB-24-4	Total/NA	Solid	8082	183415
570-71564-16	SB-25-2	Total/NA	Solid	8082	183415
570-71564-17	SB-25-4	Total/NA	Solid	8082	183415
570-71564-19	SB-26-2	Total/NA	Solid	8082	183415
570-71564-20	SB-26-4	Total/NA	Solid	8082	183415
570-71564-22	SB-27-2	Total/NA	Solid	8082	183415
570-71564-23	SB-27-4	Total/NA	Solid	8082	183415
570-71564-25	SB-28-2	Total/NA	Solid	8082	183415
570-71564-26	SB-28-4	Total/NA	Solid	8082	183415
570-71564-28	SB-29-2	Total/NA	Solid	8082	183415
570-71564-29	SB-29-4	Total/NA	Solid	8082	183415
MB 570-183415/1-A	Method Blank	Total/NA	Solid	8082	183415
LCS 570-183415/2-A	Lab Control Sample	Total/NA	Solid	8082	183415
LCSD 570-183415/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	183415

Analysis Batch: 183996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-31	SB-31-2	Total/NA	Solid	8082	183416
570-71564-31 - DL	SB-31-2	Total/NA	Solid	8082	183416
570-71564-32	SB-31-4	Total/NA	Solid	8082	183416
570-71564-32 - DL	SB-31-4	Total/NA	Solid	8082	183416
570-71564-34	SB-32-2	Total/NA	Solid	8082	183416
570-71564-35	SB-32-4	Total/NA	Solid	8082	183416
570-71564-37	SB-33-2	Total/NA	Solid	8082	183416
570-71564-38	SB-33-4	Total/NA	Solid	8082	183416
570-71564-40	SB-34-2	Total/NA	Solid	8082	183416
570-71564-41	SB-34-4	Total/NA	Solid	8082	183416
570-71564-43	SB-35-2	Total/NA	Solid	8082	183416
570-71564-43 - DL	SB-35-2	Total/NA	Solid	8082	183416
570-71564-44	SB-35-4	Total/NA	Solid	8082	183416
570-71564-46	SB-36-2	Total/NA	Solid	8082	183416
570-71564-47	SB-36-4	Total/NA	Solid	8082	183416
570-71564-49	SB-37-2	Total/NA	Solid	8082	183416
570-71564-49 - DL	SB-37-2	Total/NA	Solid	8082	183416
570-71564-50	SB-37-4	Total/NA	Solid	8082	183416
MB 570-183416/1-A	Method Blank	Total/NA	Solid	8082	183416
LCS 570-183416/2-A	Lab Control Sample	Total/NA	Solid	8082	183416
LCSD 570-183416/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	183416

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

GC Semi VOA (Continued)

Analysis Batch: 183996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-31 MS	SB-31-2	Total/NA	Solid	8082	183416
570-71564-31 MSD	SB-31-2	Total/NA	Solid	8082	183416

Analysis Batch: 184000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-1	SB-21-2	Total/NA	Solid	8082	183415
570-71564-28 - DL	SB-29-2	Total/NA	Solid	8082	183415
570-71564-29 - DL	SB-29-4	Total/NA	Solid	8082	183415
570-71564-1 MS	SB-21-2	Total/NA	Solid	8082	183415
570-71564-1 MSD	SB-21-2	Total/NA	Solid	8082	183415



Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-21-2

Lab Sample ID: 570-71564-1

Date Collected: 09/30/21 07:55

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.06 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	184000	10/05/21 11:43	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-21-4

Lab Sample ID: 570-71564-2

Date Collected: 09/30/21 07:55

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 20:33	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-22-2

Lab Sample ID: 570-71564-4

Date Collected: 09/30/21 08:20

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 20:52	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-22-4

Lab Sample ID: 570-71564-5

Date Collected: 09/30/21 08:20

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.95 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 21:11	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-23-2

Lab Sample ID: 570-71564-7

Date Collected: 09/30/21 08:50

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 21:49	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-23-4

Date Collected: 09/30/21 08:50

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.92 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 22:08	UHHN	ECL 1

Instrument ID: GC31

Client Sample ID: SB-30-2

Date Collected: 09/30/21 10:41

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 22:27	UHHN	ECL 1

Instrument ID: GC31

Client Sample ID: SB-30-4

Date Collected: 09/30/21 10:41

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 22:46	UHHN	ECL 1

Instrument ID: GC31

Client Sample ID: SB-24-2

Date Collected: 09/30/21 09:08

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 23:05	UHHN	ECL 1

Instrument ID: GC31

Client Sample ID: SB-24-4

Date Collected: 09/30/21 09:08

Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.08 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 23:24	UHHN	ECL 1

Instrument ID: GC31

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-25-2

Lab Sample ID: 570-71564-16

Date Collected: 09/30/21 09:18

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/04/21 23:43	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-25-4

Lab Sample ID: 570-71564-17

Date Collected: 09/30/21 09:18

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 00:02	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-26-2

Lab Sample ID: 570-71564-19

Date Collected: 09/30/21 09:34

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 00:21	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-26-4

Lab Sample ID: 570-71564-20

Date Collected: 09/30/21 09:34

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 00:40	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-27-2

Lab Sample ID: 570-71564-22

Date Collected: 09/30/21 09:49

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 01:00	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-27-4

Lab Sample ID: 570-71564-23

Date Collected: 09/30/21 09:49

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 01:19	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-28-2

Lab Sample ID: 570-71564-25

Date Collected: 09/30/21 10:00

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.07 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 01:38	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-28-4

Lab Sample ID: 570-71564-26

Date Collected: 09/30/21 10:00

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 01:57	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-29-2

Lab Sample ID: 570-71564-28

Date Collected: 09/30/21 10:25

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 02:16	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.11 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082	DL	100			184000	10/05/21 16:30	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-29-4

Lab Sample ID: 570-71564-29

Date Collected: 09/30/21 10:25

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082		1			183676	10/05/21 02:35	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.13 g	10 mL	183415	10/01/21 15:03	UM1W	ECL 1
Total/NA	Analysis	8082	DL	200			184000	10/05/21 16:49	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-31-2

Lab Sample ID: 570-71564-31

Date Collected: 09/30/21 11:00

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.22 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 12:23	UHNN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.22 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082	DL	20			183996	10/05/21 21:40	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-31-4

Lab Sample ID: 570-71564-32

Date Collected: 09/30/21 11:00

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.90 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 12:59	UHNN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		19.90 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082	DL	10			183996	10/05/21 21:58	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-32-2

Lab Sample ID: 570-71564-34

Date Collected: 09/30/21 11:15

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.31 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 13:17	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-32-4

Lab Sample ID: 570-71564-35

Date Collected: 09/30/21 11:15

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.36 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 13:35	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-33-2

Lab Sample ID: 570-71564-37

Date Collected: 09/30/21 11:30

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 13:53	UHNN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-33-4

Lab Sample ID: 570-71564-38

Date Collected: 09/30/21 11:30

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.04 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 14:11	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-34-2

Lab Sample ID: 570-71564-40

Date Collected: 09/30/21 11:50

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.24 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 14:29	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-34-4

Lab Sample ID: 570-71564-41

Date Collected: 09/30/21 11:50

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.24 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 15:05	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-35-2

Lab Sample ID: 570-71564-43

Date Collected: 09/30/21 12:25

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 15:23	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.14 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082	DL	100			183996	10/05/21 22:16	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-35-4

Lab Sample ID: 570-71564-44

Date Collected: 09/30/21 12:25

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 15:41	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Client Sample ID: SB-36-2

Lab Sample ID: 570-71564-46

Date Collected: 09/30/21 12:48

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.54 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 15:59	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-36-4

Lab Sample ID: 570-71564-47

Date Collected: 09/30/21 12:48

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.30 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 16:17	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-37-2

Lab Sample ID: 570-71564-49

Date Collected: 09/30/21 13:02

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.92 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 16:35	UHNN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		19.92 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082	DL	100			183996	10/06/21 08:51	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-37-4

Lab Sample ID: 570-71564-50

Date Collected: 09/30/21 13:02

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.70 g	10 mL	183416	10/01/21 15:05	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/05/21 16:53	UHNN	ECL 1
Instrument ID: GC58										

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

- 1
- 2
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- 6
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- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

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Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-71564-1	SB-21-2	Solid	09/30/21 07:55	09/30/21 17:15
570-71564-2	SB-21-4	Solid	09/30/21 07:55	09/30/21 17:15
570-71564-4	SB-22-2	Solid	09/30/21 08:20	09/30/21 17:15
570-71564-5	SB-22-4	Solid	09/30/21 08:20	09/30/21 17:15
570-71564-7	SB-23-2	Solid	09/30/21 08:50	09/30/21 17:15
570-71564-8	SB-23-4	Solid	09/30/21 08:50	09/30/21 17:15
570-71564-10	SB-30-2	Solid	09/30/21 10:41	09/30/21 17:15
570-71564-11	SB-30-4	Solid	09/30/21 10:41	09/30/21 17:15
570-71564-13	SB-24-2	Solid	09/30/21 09:08	09/30/21 17:15
570-71564-14	SB-24-4	Solid	09/30/21 09:08	09/30/21 17:15
570-71564-16	SB-25-2	Solid	09/30/21 09:18	09/30/21 17:15
570-71564-17	SB-25-4	Solid	09/30/21 09:18	09/30/21 17:15
570-71564-19	SB-26-2	Solid	09/30/21 09:34	09/30/21 17:15
570-71564-20	SB-26-4	Solid	09/30/21 09:34	09/30/21 17:15
570-71564-22	SB-27-2	Solid	09/30/21 09:49	09/30/21 17:15
570-71564-23	SB-27-4	Solid	09/30/21 09:49	09/30/21 17:15
570-71564-25	SB-28-2	Solid	09/30/21 10:00	09/30/21 17:15
570-71564-26	SB-28-4	Solid	09/30/21 10:00	09/30/21 17:15
570-71564-28	SB-29-2	Solid	09/30/21 10:25	09/30/21 17:15
570-71564-29	SB-29-4	Solid	09/30/21 10:25	09/30/21 17:15
570-71564-31	SB-31-2	Solid	09/30/21 11:00	09/30/21 17:15
570-71564-32	SB-31-4	Solid	09/30/21 11:00	09/30/21 17:15
570-71564-34	SB-32-2	Solid	09/30/21 11:15	09/30/21 17:15
570-71564-35	SB-32-4	Solid	09/30/21 11:15	09/30/21 17:15
570-71564-37	SB-33-2	Solid	09/30/21 11:30	09/30/21 17:15
570-71564-38	SB-33-4	Solid	09/30/21 11:30	09/30/21 17:15
570-71564-40	SB-34-2	Solid	09/30/21 11:50	09/30/21 17:15
570-71564-41	SB-34-4	Solid	09/30/21 11:50	09/30/21 17:15
570-71564-43	SB-35-2	Solid	09/30/21 12:25	09/30/21 17:15
570-71564-44	SB-35-4	Solid	09/30/21 12:25	09/30/21 17:15
570-71564-46	SB-36-2	Solid	09/30/21 12:48	09/30/21 17:15
570-71564-47	SB-36-4	Solid	09/30/21 12:48	09/30/21 17:15
570-71564-49	SB-37-2	Solid	09/30/21 13:02	09/30/21 17:15
570-71564-50	SB-37-4	Solid	09/30/21 13:02	09/30/21 17:15





Calscience

CHAIN OF CUSTODY RECORD

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
 For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

WO # / LAB USE ONLY

DATE: 9/30/21
 PAGE: 2 OF 2

LABORATORY CLIENT:
Geosyntec Consultants
 ADDRESS:
16644 W. Bernardo Dr. Ste 301
 CITY: San Diego STATE: CA ZIP: 92127
 TEL: 619-309-9549 E-MAIL: Brockwell@geosyntec.com

CLIENT PROJECT NAME / NUMBER:
Batavia / SC1123-13
 P.O. NO.: 100029873
 PROJECT CONTACT:
Brian Rockwell
 SAMPLER(S): (PRINT)
M. Lawrence

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
 COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	Hold	
X													X					
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Relinquished by: (Signature)
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[Signature]

Received by: (Signature/Affiliation)
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 Received by: (Signature/Affiliation)
[Signature]
 Received by: (Signature/Affiliation)
[Signature]

Date: 09/30/21 Time: 15:15
 Date: 09/30/21 Time: 17:15



71564



Calscience

CHAIN OF CUSTODY RECORD

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WO # / LAB USE ONLY

DATE: 9/30/21
PAGE: 3 OF 6

LABORATORY CLIENT: Geosyntec Consultants
ADDRESS: 16644 W. Bernardo Dr. Ste 301
CITY: San Diego STATE: CA ZIP: 92127
TEL: 619-309-9549 E-MAIL: BRodemell@geosyntec.com

CLIENT PROJECT NAME / NUMBER: Batavia / SC1123-13
P.O. NO.: 100029873
PROJECT CONTACT: Brian Rodewell
SAMPLER(S): (PRINT) M. Lawrence

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
 COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed														
TPH(g) <input type="checkbox"/> GRO	TPH(g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	Hold
														X
										X				
										X				X
										X				
										X				X
										X				
										X				X
										X				
										X				X

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
21	SB-26-6	9/30/21	0934	S	1	X		
22	SB-27-2		0949					
23	SB-27-4		0949					
24	SB-27-6		0949					
25	SB-28-2		1000					
26	SB-28-4		1000					
27	SB-28-6		1000					
28	SB-29-2		1025					
29	SB-29-4		1025					
30	SB-29-6		1025					

Relinquished by (Signature):	Received by (Signature/Affiliation):	Date: 09/30/21	Time: 15:15
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date: 09/30/21	Time: 17:15
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:





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CHAIN OF CUSTODY RECORD

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WO # / LAB USE ONLY

DATE: 9/30/21
PAGE: 4 OF 6

LABORATORY CLIENT:
Geosyntec Consultants
ADDRESS:
116644 W. Bernardo Dr. Ste 301
CITY: San Diego STATE: CA ZIP: 92127
TEL: 619-309-9519 E-MAIL: BBlockwell@geosyntec.com

CLIENT PROJECT NAME / NUMBER:
Batavia/SL1123-13
PROJECT CONTACT:
Brien Rodwell
P.O. NO.: 100029873
SAMPLER(S). (PRINT): M. Lawrence

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
 COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed													
TPH (g) <input type="checkbox"/> GRO	TPH (g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/1747X <input type="checkbox"/> 6020/1747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6
										X			
										X			
										X			X
										X			
										X			X
										X			
										X			X
										X			

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
31	SB-31-2	9/30/21	1100	S	1	X		
32	SB-31-4		1100					
33	SB-31-6		1100					
34	SB-32-2		1115					
35	SB-32-4		1115					
36	SB-32-6		1115					
37	SB-33-2		1130					
38	SB-33-4		1130					
39	SB-33-6		1130					
40	SB-34-2		1150					

Relinquished by (Signature):	Received by (Signature/Affiliation):	Date: 09/30/21	Time: 15:15
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date: 09/30/21	Time: 17:15
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:

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10/6/2021





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WO # / LAB USE ONLY

DATE: 9/30/21
PAGE: 6 OF 6

LABORATORY CLIENT: Geosyntec Consultants
ADDRESS: 16644 W. Bernardo Dr. Ste 301
CITY: San Diego STATE: CA ZIP: 92127
TEL: 619-309-9549 E-MAIL: BRockwell@geosyntec.com

CLIENT PROJECT NAME / NUMBER: Batavia/SC1123-B P.O. NO. 100029873
PROJECT CONTACT: Brian Rockwell SAMPLER(S): (PRINT) M. Lawrence

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
 COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed																	
Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/1747X <input type="checkbox"/> 6020/1747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Hold
X																	X

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
59	SB-37-6	9/30/21	1302	S	1	X		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: <u>09/30/21</u>	Time: <u>15:15</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: <u>09/30/21</u>	Time: <u>17:15</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-71564-1

Login Number: 71564
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience LLC

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-71656-1
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Brian Rockwell



Authorized for release by:
10/7/2021 11:48:15 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Job ID: 570-71656-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-71656-1

Comments

No additional comments.

Receipt

The samples were received on 10/1/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5° C.

GC Semi VOA

Method 8082: The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: SB-55-2 (570-71656-52). The sample(s) has been quantified and reported as Aroclor 1248. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-45-4 (570-71656-23) and SB-47-2 (570-71656-28). The reagent lot number used was: 1449578
Method: 8082

Method 3546: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-48-2 (570-71656-31), SB-49-2 (570-71656-34), SB-50-2 (570-71656-37), SB-52-2 (570-71656-43) and SB-54-2 (570-71656-49). The reagent lot number used was: 1449578
Method 8082.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-38-2

Lab Sample ID: 570-71656-1

No Detections.

Client Sample ID: SB-38-4

Lab Sample ID: 570-71656-2

No Detections.

Client Sample ID: SB-39-2

Lab Sample ID: 570-71656-4

No Detections.

Client Sample ID: SB-39-4

Lab Sample ID: 570-71656-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	220		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-40-2

Lab Sample ID: 570-71656-7

No Detections.

Client Sample ID: SB-40-4

Lab Sample ID: 570-71656-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	100		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-41-2

Lab Sample ID: 570-71656-10

No Detections.

Client Sample ID: SB-41-4

Lab Sample ID: 570-71656-11

No Detections.

Client Sample ID: SB-42-2

Lab Sample ID: 570-71656-13

No Detections.

Client Sample ID: SB-42-4

Lab Sample ID: 570-71656-14

No Detections.

Client Sample ID: SB-43-2

Lab Sample ID: 570-71656-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	130000		10000	ug/Kg	200		8082	Total/NA

Client Sample ID: SB-43-4

Lab Sample ID: 570-71656-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	290		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-44-2

Lab Sample ID: 570-71656-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	8900		990	ug/Kg	20		8082	Total/NA

Client Sample ID: SB-44-4

Lab Sample ID: 570-71656-20

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-45-2

Lab Sample ID: 570-71656-22

No Detections.

Client Sample ID: SB-45-4

Lab Sample ID: 570-71656-23

No Detections.

Client Sample ID: SB-46-2

Lab Sample ID: 570-71656-25

No Detections.

Client Sample ID: SB-46-4

Lab Sample ID: 570-71656-26

No Detections.

Client Sample ID: SB-47-2

Lab Sample ID: 570-71656-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	330		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-47-4

Lab Sample ID: 570-71656-29

No Detections.

Client Sample ID: SB-48-2

Lab Sample ID: 570-71656-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	4700		490	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-48-4

Lab Sample ID: 570-71656-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	340		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-49-2

Lab Sample ID: 570-71656-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	1700		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-49-4

Lab Sample ID: 570-71656-35

No Detections.

Client Sample ID: SB-50-2

Lab Sample ID: 570-71656-37

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	410		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-50-4

Lab Sample ID: 570-71656-38

No Detections.

Client Sample ID: SB-51-2

Lab Sample ID: 570-71656-40

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	640		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-51-4

Lab Sample ID: 570-71656-41

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	68		49	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-52-2

Lab Sample ID: 570-71656-43

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	410		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-52-4

Lab Sample ID: 570-71656-44

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	4900		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-53-2

Lab Sample ID: 570-71656-46

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	110		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-53-4

Lab Sample ID: 570-71656-47

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	560		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-54-2

Lab Sample ID: 570-71656-49

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	2200		490	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-54-4

Lab Sample ID: 570-71656-50

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	300		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-55-2

Lab Sample ID: 570-71656-52

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	100		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-55-4

Lab Sample ID: 570-71656-53

No Detections.

Client Sample ID: SB-56-2

Lab Sample ID: 570-71656-55

No Detections.

Client Sample ID: SB-56-4

Lab Sample ID: 570-71656-56

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-38-2
Date Collected: 10/01/21 09:35
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			10/04/21 15:34	10/06/21 05:27	1
<i>DCB Decachlorobiphenyl (Surr)</i>	78		20 - 155			10/04/21 15:34	10/06/21 05:27	1

Client Sample ID: SB-38-4
Date Collected: 10/01/21 09:35
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 05:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	75		25 - 126			10/04/21 15:34	10/06/21 05:45	1
<i>DCB Decachlorobiphenyl (Surr)</i>	80		20 - 155			10/04/21 15:34	10/06/21 05:45	1

Client Sample ID: SB-39-2
Date Collected: 10/01/21 09:50
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	74		25 - 126			10/04/21 15:34	10/06/21 06:03	1
<i>DCB Decachlorobiphenyl (Surr)</i>	83		20 - 155			10/04/21 15:34	10/06/21 06:03	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-39-4
Date Collected: 10/01/21 09:50
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Aroclor-1221	ND		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Aroclor-1232	ND		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Aroclor-1242	ND		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Aroclor-1248	220		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Aroclor-1254	ND		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Aroclor-1260	ND		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Aroclor-1262	ND		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Aroclor-1268	ND		49	ug/Kg		10/04/21 15:34	10/06/21 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	70		25 - 126			10/04/21 15:34	10/06/21 06:21	1
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			10/04/21 15:34	10/06/21 06:21	1

Client Sample ID: SB-40-2
Date Collected: 10/01/21 10:00
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	74		25 - 126			10/04/21 15:34	10/06/21 06:39	1
<i>DCB Decachlorobiphenyl (Surr)</i>	83		20 - 155			10/04/21 15:34	10/06/21 06:39	1

Client Sample ID: SB-40-4
Date Collected: 10/01/21 10:00
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Aroclor-1248	100		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 06:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	81		25 - 126			10/04/21 15:34	10/06/21 06:57	1
<i>DCB Decachlorobiphenyl (Surr)</i>	87		20 - 155			10/04/21 15:34	10/06/21 06:57	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-41-2
Date Collected: 10/01/21 10:07
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	71		25 - 126			10/04/21 15:34	10/06/21 07:15	1
DCB Decachlorobiphenyl (Surr)	77		20 - 155			10/04/21 15:34	10/06/21 07:15	1

Client Sample ID: SB-41-4
Date Collected: 10/01/21 10:07
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	76		25 - 126			10/04/21 15:34	10/06/21 07:33	1
DCB Decachlorobiphenyl (Surr)	85		20 - 155			10/04/21 15:34	10/06/21 07:33	1

Client Sample ID: SB-42-2
Date Collected: 10/01/21 10:15
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 07:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	75		25 - 126			10/04/21 15:34	10/06/21 07:51	1
DCB Decachlorobiphenyl (Surr)	84		20 - 155			10/04/21 15:34	10/06/21 07:51	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-42-4
Date Collected: 10/01/21 10:15
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	76		25 - 126			10/04/21 15:34	10/06/21 11:51	1
DCB Decachlorobiphenyl (Surr)	86		20 - 155			10/04/21 15:34	10/06/21 11:51	1

Client Sample ID: SB-43-2
Date Collected: 10/01/21 10:28
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:10	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:10	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:10	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:10	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:10	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:10	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:10	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	70		25 - 126			10/04/21 15:34	10/06/21 12:10	1
DCB Decachlorobiphenyl (Surr)	130		20 - 155			10/04/21 15:34	10/06/21 12:10	1

Client Sample ID: SB-43-4
Date Collected: 10/01/21 10:28
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-17
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Aroclor-1248	290		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 12:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126			10/04/21 15:34	10/06/21 12:28	1
DCB Decachlorobiphenyl (Surr)	89		20 - 155			10/04/21 15:34	10/06/21 12:28	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-44-2
Date Collected: 10/01/21 10:38
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 09:27	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 09:27	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 09:27	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 09:27	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 09:27	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 09:27	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 09:27	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 09:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	82		25 - 126			10/04/21 15:34	10/06/21 09:27	1
DCB Decachlorobiphenyl (Surr)	104		20 - 155			10/04/21 15:34	10/06/21 09:27	1

Client Sample ID: SB-44-4
Date Collected: 10/01/21 10:38
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	67		25 - 126			10/04/21 15:34	10/06/21 10:03	1
DCB Decachlorobiphenyl (Surr)	78		20 - 155			10/04/21 15:34	10/06/21 10:03	1

Client Sample ID: SB-45-2
Date Collected: 10/01/21 11:28
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	72		25 - 126			10/04/21 15:34	10/06/21 10:21	1
DCB Decachlorobiphenyl (Surr)	84		20 - 155			10/04/21 15:34	10/06/21 10:21	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-45-4
Date Collected: 10/01/21 11:28
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-23
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	65		25 - 126			10/04/21 15:34	10/06/21 10:39	1
DCB Decachlorobiphenyl (Surr)	72		20 - 155			10/04/21 15:34	10/06/21 10:39	1

Client Sample ID: SB-46-2
Date Collected: 10/01/21 11:40
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-25
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 10:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	75		25 - 126			10/04/21 15:34	10/06/21 10:57	1
DCB Decachlorobiphenyl (Surr)	85		20 - 155			10/04/21 15:34	10/06/21 10:57	1

Client Sample ID: SB-46-4
Date Collected: 10/01/21 11:40
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-26
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	70		25 - 126			10/04/21 15:34	10/06/21 11:15	1
DCB Decachlorobiphenyl (Surr)	77		20 - 155			10/04/21 15:34	10/06/21 11:15	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-47-2
Date Collected: 10/01/21 11:55
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-28
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Aroclor-1248	330		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 11:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	64		25 - 126			10/04/21 15:34	10/06/21 11:33	1
<i>DCB Decachlorobiphenyl (Surr)</i>	74		20 - 155			10/04/21 15:34	10/06/21 11:33	1

Client Sample ID: SB-47-4
Date Collected: 10/01/21 11:55
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-29
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	84		25 - 126			10/04/21 15:36	10/05/21 23:21	1
<i>DCB Decachlorobiphenyl (Surr)</i>	85		20 - 155			10/04/21 15:36	10/05/21 23:21	1

Client Sample ID: SB-48-2
Date Collected: 10/01/21 13:05
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-31
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/04/21 15:36	10/05/21 23:40	1
Aroclor-1221	ND		49	ug/Kg		10/04/21 15:36	10/05/21 23:40	1
Aroclor-1232	ND		49	ug/Kg		10/04/21 15:36	10/05/21 23:40	1
Aroclor-1242	ND		49	ug/Kg		10/04/21 15:36	10/05/21 23:40	1
Aroclor-1254	ND		49	ug/Kg		10/04/21 15:36	10/05/21 23:40	1
Aroclor-1260	ND		49	ug/Kg		10/04/21 15:36	10/05/21 23:40	1
Aroclor-1262	ND		49	ug/Kg		10/04/21 15:36	10/05/21 23:40	1
Aroclor-1268	ND		49	ug/Kg		10/04/21 15:36	10/05/21 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	66		25 - 126			10/04/21 15:36	10/05/21 23:40	1
<i>DCB Decachlorobiphenyl (Surr)</i>	72		20 - 155			10/04/21 15:36	10/05/21 23:40	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-48-4
Date Collected: 10/01/21 13:05
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-32
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Aroclor-1248	340		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/05/21 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	76		25 - 126			10/04/21 15:36	10/05/21 23:59	1
<i>DCB Decachlorobiphenyl (Surr)</i>	73		20 - 155			10/04/21 15:36	10/05/21 23:59	1

Client Sample ID: SB-49-2
Date Collected: 10/01/21 12:58
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-34
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 12:03	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 12:03	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 12:03	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 12:03	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 12:03	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 12:03	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 12:03	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 12:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	48		25 - 126			10/04/21 15:36	10/06/21 12:03	1
<i>DCB Decachlorobiphenyl (Surr)</i>	59		20 - 155			10/04/21 15:36	10/06/21 12:03	1

Client Sample ID: SB-49-4
Date Collected: 10/01/21 12:58
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-35
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Aroclor-1221	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Aroclor-1232	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Aroclor-1242	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Aroclor-1248	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Aroclor-1254	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Aroclor-1260	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Aroclor-1262	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Aroclor-1268	ND		49	ug/Kg		10/04/21 15:36	10/06/21 00:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	81		25 - 126			10/04/21 15:36	10/06/21 00:37	1
<i>DCB Decachlorobiphenyl (Surr)</i>	72		20 - 155			10/04/21 15:36	10/06/21 00:37	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-50-2
Date Collected: 10/01/21 13:15
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-37
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Aroclor-1248	410		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 00:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	58		25 - 126			10/04/21 15:36	10/06/21 00:56	1
<i>DCB Decachlorobiphenyl (Surr)</i>	60		20 - 155			10/04/21 15:36	10/06/21 00:56	1

Client Sample ID: SB-50-4
Date Collected: 10/01/21 13:15
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-38
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	82		25 - 126			10/04/21 15:36	10/06/21 01:15	1
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			10/04/21 15:36	10/06/21 01:15	1

Client Sample ID: SB-51-2
Date Collected: 10/01/21 13:24
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-40
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Aroclor-1254	640		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 01:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	55		25 - 126			10/04/21 15:36	10/06/21 01:35	1
<i>DCB Decachlorobiphenyl (Surr)</i>	59		20 - 155			10/04/21 15:36	10/06/21 01:35	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-51-4
Date Collected: 10/01/21 13:24
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-41
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Aroclor-1221	ND		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Aroclor-1232	ND		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Aroclor-1242	ND		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Aroclor-1248	ND		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Aroclor-1254	68		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Aroclor-1260	ND		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Aroclor-1262	ND		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Aroclor-1268	ND		49	ug/Kg		10/04/21 15:36	10/06/21 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	68		25 - 126			10/04/21 15:36	10/06/21 01:54	1
DCB Decachlorobiphenyl (Surr)	71		20 - 155			10/04/21 15:36	10/06/21 01:54	1

Client Sample ID: SB-52-2
Date Collected: 10/01/21 13:42
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-43
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Aroclor-1221	ND		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Aroclor-1232	ND		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Aroclor-1242	ND		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Aroclor-1248	410		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Aroclor-1254	ND		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Aroclor-1260	ND		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Aroclor-1262	ND		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Aroclor-1268	ND		49	ug/Kg		10/04/21 15:36	10/06/21 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	65		25 - 126			10/04/21 15:36	10/06/21 12:22	1
DCB Decachlorobiphenyl (Surr)	69		20 - 155			10/04/21 15:36	10/06/21 12:22	1

Client Sample ID: SB-52-4
Date Collected: 10/01/21 13:42
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-44
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 02:32	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 02:32	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 02:32	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 02:32	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 02:32	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 02:32	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 02:32	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	77		25 - 126			10/04/21 15:36	10/06/21 02:32	1
DCB Decachlorobiphenyl (Surr)	78		20 - 155			10/04/21 15:36	10/06/21 02:32	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-53-2
Date Collected: 10/01/21 13:52
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-46
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Aroclor-1221	ND		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Aroclor-1232	ND		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Aroclor-1242	ND		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Aroclor-1248	110		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Aroclor-1254	ND		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Aroclor-1260	ND		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Aroclor-1262	ND		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Aroclor-1268	ND		49	ug/Kg		10/04/21 15:36	10/06/21 02:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	80		25 - 126			10/04/21 15:36	10/06/21 02:51	1
<i>DCB Decachlorobiphenyl (Surr)</i>	79		20 - 155			10/04/21 15:36	10/06/21 02:51	1

Client Sample ID: SB-53-4
Date Collected: 10/01/21 13:52
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-47
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Aroclor-1248	560		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	88		25 - 126			10/04/21 15:36	10/06/21 03:10	1
<i>DCB Decachlorobiphenyl (Surr)</i>	83		20 - 155			10/04/21 15:36	10/06/21 03:10	1

Client Sample ID: SB-54-2
Date Collected: 10/01/21 13:58
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-49
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/04/21 15:36	10/06/21 03:29	1
Aroclor-1221	ND		49	ug/Kg		10/04/21 15:36	10/06/21 03:29	1
Aroclor-1232	ND		49	ug/Kg		10/04/21 15:36	10/06/21 03:29	1
Aroclor-1242	ND		49	ug/Kg		10/04/21 15:36	10/06/21 03:29	1
Aroclor-1254	ND		49	ug/Kg		10/04/21 15:36	10/06/21 03:29	1
Aroclor-1260	ND		49	ug/Kg		10/04/21 15:36	10/06/21 03:29	1
Aroclor-1262	ND		49	ug/Kg		10/04/21 15:36	10/06/21 03:29	1
Aroclor-1268	ND		49	ug/Kg		10/04/21 15:36	10/06/21 03:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	60		25 - 126			10/04/21 15:36	10/06/21 03:29	1
<i>DCB Decachlorobiphenyl (Surr)</i>	65		20 - 155			10/04/21 15:36	10/06/21 03:29	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-54-4
Date Collected: 10/01/21 13:58
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-50
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Aroclor-1248	300		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 03:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	68		25 - 126			10/04/21 15:36	10/06/21 03:48	1
<i>DCB Decachlorobiphenyl (Surr)</i>	74		20 - 155			10/04/21 15:36	10/06/21 03:48	1

Client Sample ID: SB-55-2
Date Collected: 10/01/21 14:24
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-52
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Aroclor-1221	ND		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Aroclor-1232	ND		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Aroclor-1242	ND		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Aroclor-1248	100		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Aroclor-1254	ND		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Aroclor-1260	ND		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Aroclor-1262	ND		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Aroclor-1268	ND		49	ug/Kg		10/04/21 15:36	10/06/21 04:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	77		25 - 126			10/04/21 15:36	10/06/21 04:26	1
<i>DCB Decachlorobiphenyl (Surr)</i>	77		20 - 155			10/04/21 15:36	10/06/21 04:26	1

Client Sample ID: SB-55-4
Date Collected: 10/01/21 14:24
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-53
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	70		25 - 126			10/04/21 15:36	10/06/21 04:45	1
<i>DCB Decachlorobiphenyl (Surr)</i>	69		20 - 155			10/04/21 15:36	10/06/21 04:45	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-56-2
Date Collected: 10/01/21 14:35
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-55
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	82		25 - 126			10/04/21 15:36	10/06/21 05:04	1
DCB Decachlorobiphenyl (Surr)	82		20 - 155			10/04/21 15:36	10/06/21 05:04	1

Client Sample ID: SB-56-4
Date Collected: 10/01/21 14:35
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-56
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/06/21 05:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	76		25 - 126			10/04/21 15:36	10/06/21 05:23	1
DCB Decachlorobiphenyl (Surr)	77		20 - 155			10/04/21 15:36	10/06/21 05:23	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-43-2
Date Collected: 10/01/21 10:28
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	130000		10000	ug/Kg		10/04/21 15:34	10/06/21 13:57	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	102		25 - 126			10/04/21 15:34	10/06/21 13:57	200
DCB Decachlorobiphenyl (Surr)	95	p	20 - 155			10/04/21 15:34	10/06/21 13:57	200

Client Sample ID: SB-44-2
Date Collected: 10/01/21 10:38
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	8900		990	ug/Kg		10/04/21 15:34	10/06/21 12:46	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	86		25 - 126			10/04/21 15:34	10/06/21 12:46	20
DCB Decachlorobiphenyl (Surr)	123		20 - 155			10/04/21 15:34	10/06/21 12:46	20

Client Sample ID: SB-48-2
Date Collected: 10/01/21 13:05
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-31
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	4700		490	ug/Kg		10/04/21 15:36	10/06/21 10:27	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	80		25 - 126			10/04/21 15:36	10/06/21 10:27	10
DCB Decachlorobiphenyl (Surr)	99		20 - 155			10/04/21 15:36	10/06/21 10:27	10

Client Sample ID: SB-49-2
Date Collected: 10/01/21 12:58
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-34
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	1700		500	ug/Kg		10/04/21 15:36	10/06/21 14:54	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	77		25 - 126			10/04/21 15:36	10/06/21 11:25	10
DCB Decachlorobiphenyl (Surr)	90		20 - 155			10/04/21 15:36	10/06/21 11:25	10

Client Sample ID: SB-52-4
Date Collected: 10/01/21 13:42
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-44
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	4900		500	ug/Kg		10/04/21 15:36	10/06/21 11:25	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	77		25 - 126			10/04/21 15:36	10/06/21 11:25	10
DCB Decachlorobiphenyl (Surr)	90		20 - 155			10/04/21 15:36	10/06/21 11:25	10

Client Sample ID: SB-54-2
Date Collected: 10/01/21 13:58
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-49
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	2200		490	ug/Kg		10/04/21 15:36	10/06/21 11:44	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	68		25 - 126			10/04/21 15:36	10/06/21 11:44	10
DCB Decachlorobiphenyl (Surr)	85		20 - 155			10/04/21 15:36	10/06/21 11:44	10

Eurofins Calscience LLC

Surrogate Summary

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-71656-1	SB-38-2	72	78
570-71656-1 MS	SB-38-2	72	76
570-71656-1 MSD	SB-38-2	77	83
570-71656-2	SB-38-4	75	80
570-71656-4	SB-39-2	74	83
570-71656-5	SB-39-4	70	76
570-71656-7	SB-40-2	74	83
570-71656-8	SB-40-4	81	87
570-71656-10	SB-41-2	71	77
570-71656-11	SB-41-4	76	85
570-71656-13	SB-42-2	75	84
570-71656-14	SB-42-4	76	86
570-71656-16 - DL	SB-43-2	102	95 p
570-71656-16	SB-43-2	70	130
570-71656-17	SB-43-4	78	89
570-71656-19	SB-44-2	82	104
570-71656-19 - DL	SB-44-2	86	123
570-71656-20	SB-44-4	67	78
570-71656-22	SB-45-2	72	84
570-71656-23	SB-45-4	65	72
570-71656-25	SB-46-2	75	85
570-71656-26	SB-46-4	70	77
570-71656-28	SB-47-2	64	74
570-71656-29	SB-47-4	84	85
570-71656-29 MS	SB-47-4	83	88
570-71656-29 MSD	SB-47-4	79	83
570-71656-31 - DL	SB-48-2	80	99
570-71656-31	SB-48-2	66	72
570-71656-32	SB-48-4	76	73
570-71656-34	SB-49-2	48	59
570-71656-35	SB-49-4	81	72
570-71656-37	SB-50-2	58	60
570-71656-38	SB-50-4	82	76
570-71656-40	SB-51-2	55	59
570-71656-41	SB-51-4	68	71
570-71656-43	SB-52-2	65	69
570-71656-44	SB-52-4	77	78
570-71656-44 - DL	SB-52-4	77	90
570-71656-46	SB-53-2	80	79
570-71656-47	SB-53-4	88	83
570-71656-49	SB-54-2	60	65
570-71656-49 - DL	SB-54-2	68	85
570-71656-50	SB-54-4	68	74
570-71656-52	SB-55-2	77	77
570-71656-53	SB-55-4	70	69
570-71656-55	SB-56-2	82	82
570-71656-56	SB-56-4	76	77
LCS 570-183888/2-A	Lab Control Sample	88	90
LCS 570-183889/2-A	Lab Control Sample	81	82

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (25-126)	DCB1 (20-155)
LCSD 570-183888/3-A	Lab Control Sample Dup	87	90
LCSD 570-183889/3-A	Lab Control Sample Dup	87	89
MB 570-183888/1-A	Method Blank	86	88
MB 570-183889/1-A	Method Blank	88	87

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-183888/1-A
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183888

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:34	10/06/21 03:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	86		25 - 126	10/04/21 15:34	10/06/21 03:57	1
DCB Decachlorobiphenyl (Surr)	88		20 - 155	10/04/21 15:34	10/06/21 03:57	1

Lab Sample ID: LCS 570-183888/2-A
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	100	101.5		ug/Kg		102	50 - 142
Aroclor-1260	100	101.7		ug/Kg		102	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	88		25 - 126
DCB Decachlorobiphenyl (Surr)	90		20 - 155

Lab Sample ID: LCSD 570-183888/3-A
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183888

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	100	107.2		ug/Kg		107	50 - 142	5	30
Aroclor-1260	100	106.0		ug/Kg		106	50 - 150	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	87		25 - 126
DCB Decachlorobiphenyl (Surr)	90		20 - 155

Lab Sample ID: 570-71656-1 MS
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: SB-38-2
Prep Type: Total/NA
Prep Batch: 183888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	ND		99.8	112.2		ug/Kg		112	20 - 175
Aroclor-1260	ND		99.8	90.82		ug/Kg		91	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-71656-1 MS
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: SB-38-2
Prep Type: Total/NA
Prep Batch: 183888

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	72		25 - 126
DCB Decachlorobiphenyl (Surr)	76		20 - 155

Lab Sample ID: 570-71656-1 MSD
Matrix: Solid
Analysis Batch: 183996

Client Sample ID: SB-38-2
Prep Type: Total/NA
Prep Batch: 183888

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aroclor-1016	ND		99.2	94.46		ug/Kg		95	20 - 175	17	40	
Aroclor-1260	ND		99.2	98.55		ug/Kg		99	20 - 180	8	40	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	77		25 - 126
DCB Decachlorobiphenyl (Surr)	83		20 - 155

Lab Sample ID: MB 570-183889/1-A
Matrix: Solid
Analysis Batch: 184285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 183889

Analyte	MB MB		RL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier				Prepared	Analyzed			
Aroclor-1016	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		
Aroclor-1221	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		
Aroclor-1232	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		
Aroclor-1242	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		
Aroclor-1248	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		
Aroclor-1254	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		
Aroclor-1260	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		
Aroclor-1262	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		
Aroclor-1268	ND		50	ug/Kg		10/04/21 15:36	10/05/21 21:46	1		

Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed			
Tetrachloro-m-xylene (Surr)	88		25 - 126	10/04/21 15:36	10/05/21 21:46	1		
DCB Decachlorobiphenyl (Surr)	87		20 - 155	10/04/21 15:36	10/05/21 21:46	1		

Lab Sample ID: LCS 570-183889/2-A
Matrix: Solid
Analysis Batch: 184285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 183889

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Aroclor-1016	100	98.31		ug/Kg		98	50 - 142	
Aroclor-1260	100	96.57		ug/Kg		97	50 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	81		25 - 126
DCB Decachlorobiphenyl (Surr)	82		20 - 155

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 570-183889/3-A
Matrix: Solid
Analysis Batch: 184285

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 183889

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD		
Aroclor-1016	100	108.8		ug/Kg		109	50 - 142	10	30	
Aroclor-1260	100	108.0		ug/Kg		108	50 - 150	11	30	
LCS D LCS D										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	87		25 - 126							
DCB Decachlorobiphenyl (Surr)	89		20 - 155							

Lab Sample ID: 570-71656-29 MS
Matrix: Solid
Analysis Batch: 184285

Client Sample ID: SB-47-4
Prep Type: Total/NA
Prep Batch: 183889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Aroclor-1016	ND		101	108.9		ug/Kg		108	20 - 175	
Aroclor-1260	ND		101	106.3		ug/Kg		106	20 - 180	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	83		25 - 126							
DCB Decachlorobiphenyl (Surr)	88		20 - 155							

Lab Sample ID: 570-71656-29 MSD
Matrix: Solid
Analysis Batch: 184285

Client Sample ID: SB-47-4
Prep Type: Total/NA
Prep Batch: 183889

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Aroclor-1016	ND		97.5	100.6		ug/Kg		103	20 - 175	8
Aroclor-1260	ND		97.5	97.48		ug/Kg		100	20 - 180	9
MSD MSD										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	79		25 - 126							
DCB Decachlorobiphenyl (Surr)	83		20 - 155							

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

GC Semi VOA

Prep Batch: 183888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71656-1	SB-38-2	Total/NA	Solid	3546	
570-71656-2	SB-38-4	Total/NA	Solid	3546	
570-71656-4	SB-39-2	Total/NA	Solid	3546	
570-71656-5	SB-39-4	Total/NA	Solid	3546	
570-71656-7	SB-40-2	Total/NA	Solid	3546	
570-71656-8	SB-40-4	Total/NA	Solid	3546	
570-71656-10	SB-41-2	Total/NA	Solid	3546	
570-71656-11	SB-41-4	Total/NA	Solid	3546	
570-71656-13	SB-42-2	Total/NA	Solid	3546	
570-71656-14	SB-42-4	Total/NA	Solid	3546	
570-71656-16	SB-43-2	Total/NA	Solid	3546	
570-71656-16 - DL	SB-43-2	Total/NA	Solid	3546	
570-71656-17	SB-43-4	Total/NA	Solid	3546	
570-71656-19	SB-44-2	Total/NA	Solid	3546	
570-71656-19 - DL	SB-44-2	Total/NA	Solid	3546	
570-71656-20	SB-44-4	Total/NA	Solid	3546	
570-71656-22	SB-45-2	Total/NA	Solid	3546	
570-71656-23	SB-45-4	Total/NA	Solid	3546	
570-71656-25	SB-46-2	Total/NA	Solid	3546	
570-71656-26	SB-46-4	Total/NA	Solid	3546	
570-71656-28	SB-47-2	Total/NA	Solid	3546	
MB 570-183888/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-183888/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-183888/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-71656-1 MS	SB-38-2	Total/NA	Solid	3546	
570-71656-1 MSD	SB-38-2	Total/NA	Solid	3546	

Prep Batch: 183889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71656-29	SB-47-4	Total/NA	Solid	3546	
570-71656-31 - DL	SB-48-2	Total/NA	Solid	3546	
570-71656-31	SB-48-2	Total/NA	Solid	3546	
570-71656-32	SB-48-4	Total/NA	Solid	3546	
570-71656-34 - DL	SB-49-2	Total/NA	Solid	3546	
570-71656-34	SB-49-2	Total/NA	Solid	3546	
570-71656-35	SB-49-4	Total/NA	Solid	3546	
570-71656-37	SB-50-2	Total/NA	Solid	3546	
570-71656-38	SB-50-4	Total/NA	Solid	3546	
570-71656-40	SB-51-2	Total/NA	Solid	3546	
570-71656-41	SB-51-4	Total/NA	Solid	3546	
570-71656-43	SB-52-2	Total/NA	Solid	3546	
570-71656-44 - DL	SB-52-4	Total/NA	Solid	3546	
570-71656-44	SB-52-4	Total/NA	Solid	3546	
570-71656-46	SB-53-2	Total/NA	Solid	3546	
570-71656-47	SB-53-4	Total/NA	Solid	3546	
570-71656-49 - DL	SB-54-2	Total/NA	Solid	3546	
570-71656-49	SB-54-2	Total/NA	Solid	3546	
570-71656-50	SB-54-4	Total/NA	Solid	3546	
570-71656-52	SB-55-2	Total/NA	Solid	3546	
570-71656-53	SB-55-4	Total/NA	Solid	3546	
570-71656-55	SB-56-2	Total/NA	Solid	3546	

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QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

GC Semi VOA (Continued)

Prep Batch: 183889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71656-56	SB-56-4	Total/NA	Solid	3546	
MB 570-183889/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-183889/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-183889/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-71656-29 MS	SB-47-4	Total/NA	Solid	3546	
570-71656-29 MSD	SB-47-4	Total/NA	Solid	3546	

Analysis Batch: 183996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71656-1	SB-38-2	Total/NA	Solid	8082	183888
570-71656-2	SB-38-4	Total/NA	Solid	8082	183888
570-71656-4	SB-39-2	Total/NA	Solid	8082	183888
570-71656-5	SB-39-4	Total/NA	Solid	8082	183888
570-71656-7	SB-40-2	Total/NA	Solid	8082	183888
570-71656-8	SB-40-4	Total/NA	Solid	8082	183888
570-71656-10	SB-41-2	Total/NA	Solid	8082	183888
570-71656-11	SB-41-4	Total/NA	Solid	8082	183888
570-71656-13	SB-42-2	Total/NA	Solid	8082	183888
570-71656-14	SB-42-4	Total/NA	Solid	8082	183888
570-71656-16	SB-43-2	Total/NA	Solid	8082	183888
570-71656-16 - DL	SB-43-2	Total/NA	Solid	8082	183888
570-71656-17	SB-43-4	Total/NA	Solid	8082	183888
570-71656-19	SB-44-2	Total/NA	Solid	8082	183888
570-71656-19 - DL	SB-44-2	Total/NA	Solid	8082	183888
570-71656-20	SB-44-4	Total/NA	Solid	8082	183888
570-71656-22	SB-45-2	Total/NA	Solid	8082	183888
570-71656-23	SB-45-4	Total/NA	Solid	8082	183888
570-71656-25	SB-46-2	Total/NA	Solid	8082	183888
570-71656-26	SB-46-4	Total/NA	Solid	8082	183888
570-71656-28	SB-47-2	Total/NA	Solid	8082	183888
MB 570-183888/1-A	Method Blank	Total/NA	Solid	8082	183888
LCS 570-183888/2-A	Lab Control Sample	Total/NA	Solid	8082	183888
LCSD 570-183888/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	183888
570-71656-1 MS	SB-38-2	Total/NA	Solid	8082	183888
570-71656-1 MSD	SB-38-2	Total/NA	Solid	8082	183888

Analysis Batch: 184285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71656-29	SB-47-4	Total/NA	Solid	8082	183889
570-71656-31	SB-48-2	Total/NA	Solid	8082	183889
570-71656-31 - DL	SB-48-2	Total/NA	Solid	8082	183889
570-71656-32	SB-48-4	Total/NA	Solid	8082	183889
570-71656-34	SB-49-2	Total/NA	Solid	8082	183889
570-71656-34 - DL	SB-49-2	Total/NA	Solid	8082	183889
570-71656-35	SB-49-4	Total/NA	Solid	8082	183889
570-71656-37	SB-50-2	Total/NA	Solid	8082	183889
570-71656-38	SB-50-4	Total/NA	Solid	8082	183889
570-71656-40	SB-51-2	Total/NA	Solid	8082	183889
570-71656-41	SB-51-4	Total/NA	Solid	8082	183889
570-71656-43	SB-52-2	Total/NA	Solid	8082	183889
570-71656-44	SB-52-4	Total/NA	Solid	8082	183889

Eurofins Calscience LLC

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

GC Semi VOA (Continued)

Analysis Batch: 184285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71656-44 - DL	SB-52-4	Total/NA	Solid	8082	183889
570-71656-46	SB-53-2	Total/NA	Solid	8082	183889
570-71656-47	SB-53-4	Total/NA	Solid	8082	183889
570-71656-49	SB-54-2	Total/NA	Solid	8082	183889
570-71656-49 - DL	SB-54-2	Total/NA	Solid	8082	183889
570-71656-50	SB-54-4	Total/NA	Solid	8082	183889
570-71656-52	SB-55-2	Total/NA	Solid	8082	183889
570-71656-53	SB-55-4	Total/NA	Solid	8082	183889
570-71656-55	SB-56-2	Total/NA	Solid	8082	183889
570-71656-56	SB-56-4	Total/NA	Solid	8082	183889
MB 570-183889/1-A	Method Blank	Total/NA	Solid	8082	183889
LCS 570-183889/2-A	Lab Control Sample	Total/NA	Solid	8082	183889
LCSD 570-183889/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	183889
570-71656-29 MS	SB-47-4	Total/NA	Solid	8082	183889
570-71656-29 MSD	SB-47-4	Total/NA	Solid	8082	183889

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-38-2

Date Collected: 10/01/21 09:35

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 05:27	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-38-4

Date Collected: 10/01/21 09:35

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 05:45	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-39-2

Date Collected: 10/01/21 09:50

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.07 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 06:03	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-39-4

Date Collected: 10/01/21 09:50

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.28 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 06:21	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-40-2

Date Collected: 10/01/21 10:00

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 06:39	UHHN	ECL 1

Instrument ID: GC58

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-40-4

Date Collected: 10/01/21 10:00

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 06:57	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-41-2

Date Collected: 10/01/21 10:07

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 07:15	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-41-4

Date Collected: 10/01/21 10:07

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 07:33	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-42-2

Date Collected: 10/01/21 10:15

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 07:51	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-42-4

Date Collected: 10/01/21 10:15

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 11:51	UHHN	ECL 1

Instrument ID: GC58

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-43-2

Lab Sample ID: 570-71656-16

Date Collected: 10/01/21 10:28

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.06 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 12:10	UHNN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.06 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082	DL	200			183996	10/06/21 13:57	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-43-4

Lab Sample ID: 570-71656-17

Date Collected: 10/01/21 10:28

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 12:28	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-44-2

Lab Sample ID: 570-71656-19

Date Collected: 10/01/21 10:38

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 09:27	UHNN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.16 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082	DL	20			183996	10/06/21 12:46	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-44-4

Lab Sample ID: 570-71656-20

Date Collected: 10/01/21 10:38

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 10:03	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-45-2

Lab Sample ID: 570-71656-22

Date Collected: 10/01/21 11:28

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.07 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 10:21	UHNN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-45-4

Date Collected: 10/01/21 11:28

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.95 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 10:39	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-46-2

Date Collected: 10/01/21 11:40

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.97 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 10:57	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-46-4

Date Collected: 10/01/21 11:40

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.08 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 11:15	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-47-2

Date Collected: 10/01/21 11:55

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	183888	10/04/21 15:34	F7UI	ECL 1
Total/NA	Analysis	8082		1			183996	10/06/21 11:33	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-47-4

Date Collected: 10/01/21 11:55

Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.02 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/05/21 23:21	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-48-2

Lab Sample ID: 570-71656-31

Date Collected: 10/01/21 13:05

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.24 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/05/21 23:40	UHNN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.24 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082	DL	10			184285	10/06/21 10:27	UHNN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-48-4

Lab Sample ID: 570-71656-32

Date Collected: 10/01/21 13:05

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/05/21 23:59	UHNN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-49-2

Lab Sample ID: 570-71656-34

Date Collected: 10/01/21 12:58

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.00 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 12:03	UHNN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.00 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082	DL	10			184285	10/06/21 14:54	UHNN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-49-4

Lab Sample ID: 570-71656-35

Date Collected: 10/01/21 12:58

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.25 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 00:37	UHNN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-50-2

Lab Sample ID: 570-71656-37

Date Collected: 10/01/21 13:15

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 00:56	UHNN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-50-4

Lab Sample ID: 570-71656-38

Date Collected: 10/01/21 13:15

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.96 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 01:15	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-51-2

Lab Sample ID: 570-71656-40

Date Collected: 10/01/21 13:24

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 01:35	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-51-4

Lab Sample ID: 570-71656-41

Date Collected: 10/01/21 13:24

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.58 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 01:54	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-52-2

Lab Sample ID: 570-71656-43

Date Collected: 10/01/21 13:42

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.21 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 12:22	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-52-4

Lab Sample ID: 570-71656-44

Date Collected: 10/01/21 13:42

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 02:32	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.01 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082	DL	10			184285	10/06/21 11:25	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-53-2

Lab Sample ID: 570-71656-46

Date Collected: 10/01/21 13:52

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.35 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 02:51	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-53-4

Lab Sample ID: 570-71656-47

Date Collected: 10/01/21 13:52

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 03:10	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-54-2

Lab Sample ID: 570-71656-49

Date Collected: 10/01/21 13:58

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.24 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 03:29	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.24 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082	DL	10			184285	10/06/21 11:44	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-54-4

Lab Sample ID: 570-71656-50

Date Collected: 10/01/21 13:58

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	184285	10/06/21 03:48	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-55-2

Lab Sample ID: 570-71656-52

Date Collected: 10/01/21 14:24

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.24 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 04:26	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Client Sample ID: SB-55-4

Lab Sample ID: 570-71656-53

Date Collected: 10/01/21 14:24

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.94 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 04:45	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-56-2

Lab Sample ID: 570-71656-55

Date Collected: 10/01/21 14:35

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 05:04	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-56-4

Lab Sample ID: 570-71656-56

Date Collected: 10/01/21 14:35

Matrix: Solid

Date Received: 10/01/21 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.94 g	10 mL	183889	10/04/21 15:36	F7UI	ECL 1
Total/NA	Analysis	8082		1			184285	10/06/21 05:23	UHHN	ECL 1
Instrument ID: GC31										

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

- 1
- 2
- 3
- 4
- 5
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- 9
- 10
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- 13
- 14
- 15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-71656-1	SB-38-2	Solid	10/01/21 09:35	10/01/21 17:00
570-71656-2	SB-38-4	Solid	10/01/21 09:35	10/01/21 17:00
570-71656-4	SB-39-2	Solid	10/01/21 09:50	10/01/21 17:00
570-71656-5	SB-39-4	Solid	10/01/21 09:50	10/01/21 17:00
570-71656-7	SB-40-2	Solid	10/01/21 10:00	10/01/21 17:00
570-71656-8	SB-40-4	Solid	10/01/21 10:00	10/01/21 17:00
570-71656-10	SB-41-2	Solid	10/01/21 10:07	10/01/21 17:00
570-71656-11	SB-41-4	Solid	10/01/21 10:07	10/01/21 17:00
570-71656-13	SB-42-2	Solid	10/01/21 10:15	10/01/21 17:00
570-71656-14	SB-42-4	Solid	10/01/21 10:15	10/01/21 17:00
570-71656-16	SB-43-2	Solid	10/01/21 10:28	10/01/21 17:00
570-71656-17	SB-43-4	Solid	10/01/21 10:28	10/01/21 17:00
570-71656-19	SB-44-2	Solid	10/01/21 10:38	10/01/21 17:00
570-71656-20	SB-44-4	Solid	10/01/21 10:38	10/01/21 17:00
570-71656-22	SB-45-2	Solid	10/01/21 11:28	10/01/21 17:00
570-71656-23	SB-45-4	Solid	10/01/21 11:28	10/01/21 17:00
570-71656-25	SB-46-2	Solid	10/01/21 11:40	10/01/21 17:00
570-71656-26	SB-46-4	Solid	10/01/21 11:40	10/01/21 17:00
570-71656-28	SB-47-2	Solid	10/01/21 11:55	10/01/21 17:00
570-71656-29	SB-47-4	Solid	10/01/21 11:55	10/01/21 17:00
570-71656-31	SB-48-2	Solid	10/01/21 13:05	10/01/21 17:00
570-71656-32	SB-48-4	Solid	10/01/21 13:05	10/01/21 17:00
570-71656-34	SB-49-2	Solid	10/01/21 12:58	10/01/21 17:00
570-71656-35	SB-49-4	Solid	10/01/21 12:58	10/01/21 17:00
570-71656-37	SB-50-2	Solid	10/01/21 13:15	10/01/21 17:00
570-71656-38	SB-50-4	Solid	10/01/21 13:15	10/01/21 17:00
570-71656-40	SB-51-2	Solid	10/01/21 13:24	10/01/21 17:00
570-71656-41	SB-51-4	Solid	10/01/21 13:24	10/01/21 17:00
570-71656-43	SB-52-2	Solid	10/01/21 13:42	10/01/21 17:00
570-71656-44	SB-52-4	Solid	10/01/21 13:42	10/01/21 17:00
570-71656-46	SB-53-2	Solid	10/01/21 13:52	10/01/21 17:00
570-71656-47	SB-53-4	Solid	10/01/21 13:52	10/01/21 17:00
570-71656-49	SB-54-2	Solid	10/01/21 13:58	10/01/21 17:00
570-71656-50	SB-54-4	Solid	10/01/21 13:58	10/01/21 17:00
570-71656-52	SB-55-2	Solid	10/01/21 14:24	10/01/21 17:00
570-71656-53	SB-55-4	Solid	10/01/21 14:24	10/01/21 17:00
570-71656-55	SB-56-2	Solid	10/01/21 14:35	10/01/21 17:00
570-71656-56	SB-56-4	Solid	10/01/21 14:35	10/01/21 17:00



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
 For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY

DATE: 10/1/21
 PAGE: 3 OF 6

LABORATORY CLIENT: Geosyntec Consultants			CLIENT PROJECT NAME / NUMBER: Bortavia / SC1123-13			P.O. NO. 1600 29873			
ADDRESS: 16644 W. Bernardo Dr. Ste 301			PROJECT CONTACT: Brian Rockwell			SAMPLER(S): (PRINT) M. Lawrence			
CITY: San Diego		STATE: CA	ZIP: 92127						
TEL: 619-309-9549		E-MAIL: BRockwell@geosyntec.com							

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Please check box or fill in blank as needed

<input type="checkbox"/> GRO	<input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Hold
------------------------------	------------------------------	---	-----	---	-------------	-------------------	--	--------------	-------------------	-------------	--	--	---	------

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> GRO	<input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Hold		
		DATE	TIME																						
21	SB-44-6	10/1/21	1038	S	1	X																		X	
22	SB-45-2		1128																X						
23	SB-45-4		1128																X						
24	SB-45-6		1128																					X	
25	SB-46-2		1140																	X					
26	SB-46-4		1140																	X					
27	SB-46-6		1140																					X	
28	SB-47-2		1155																	X					
29	SB-47-4		1155																	X					
30	SB-47-6		1155																					X	

Relinquished by (Signature):	Received by (Signature/Affiliation):	Date: 10/1/21	Time: 17:00
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-71656-1

Login Number: 71656
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience LLC

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-74572-1
Client Project/Site: Batavia / SC1123-13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

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Authorized for release by:
11/11/2021 10:20:37 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Job ID: 570-74572-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-74572-1

Comments

No additional comments.

Receipt

The samples were received on 11/2/2021 1:47 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

GC Semi VOA

Method 8082: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-65-2 (570-74572-25) and SB-65-4 (570-74572-26). Elevated reporting limits (RLs) are provided.

Method 8082: The following samples required a dilution due to the nature of the sample matrix: SB-63-4 (570-74572-20) and SB-66-2 (570-74572-28). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-58-2 (570-74572-4) and SB-61-4 (570-74572-14). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-67-2 (570-74572-31), SB-68-2 (570-74572-34), SB-68-4 (570-74572-35), SB-69-2 (570-74572-36) and SB-69-4 (570-74572-37). The reagent lot number used was: 2061690/ Method 8082

Method 3546: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-63-2 (570-74572-19), SB-64-2 (570-74572-22), SB-65-2 (570-74572-25) and SB-65-4 (570-74572-26). The reagent lot number used was: 2061690
8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-57-2

Lab Sample ID: 570-74572-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	170		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-57-4

Lab Sample ID: 570-74572-2

No Detections.

Client Sample ID: SB-58-2

Lab Sample ID: 570-74572-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	850		250	ug/Kg	5		8082	Total/NA

Client Sample ID: SB-58-4

Lab Sample ID: 570-74572-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL2	26000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-59-2

Lab Sample ID: 570-74572-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	110000		25000	ug/Kg	500		8082	Total/NA

Client Sample ID: SB-59-4

Lab Sample ID: 570-74572-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	910		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-60-2

Lab Sample ID: 570-74572-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	20000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-60-4

Lab Sample ID: 570-74572-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	53000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-61-2

Lab Sample ID: 570-74572-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	6200		990	ug/Kg	20		8082	Total/NA

Client Sample ID: SB-61-4

Lab Sample ID: 570-74572-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5800		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-62-2

Lab Sample ID: 570-74572-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	26000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-62-4

Lab Sample ID: 570-74572-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	12000		5000	ug/Kg	100		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-63-2

Lab Sample ID: 570-74572-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	76		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-63-4

Lab Sample ID: 570-74572-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	2400000		500000	ug/Kg	10000		8082	Total/NA

Client Sample ID: SB-64-2

Lab Sample ID: 570-74572-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	64		49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-64-4

Lab Sample ID: 570-74572-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	140000		25000	ug/Kg	500		8082	Total/NA

Client Sample ID: SB-65-2

Lab Sample ID: 570-74572-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	14000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-65-4

Lab Sample ID: 570-74572-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	16000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-66-2

Lab Sample ID: 570-74572-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	250000		25000	ug/Kg	500		8082	Total/NA

Client Sample ID: SB-66-4

Lab Sample ID: 570-74572-29

No Detections.

Client Sample ID: SB-67-2

Lab Sample ID: 570-74572-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	830		250	ug/Kg	5		8082	Total/NA

Client Sample ID: SB-67-4

Lab Sample ID: 570-74572-32

No Detections.

Client Sample ID: SB-68-2

Lab Sample ID: 570-74572-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	260		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-68-4

Lab Sample ID: 570-74572-35

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	4400		500	ug/Kg	10		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-69-2

Lab Sample ID: 570-74572-36

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	9500		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-69-4

Lab Sample ID: 570-74572-37

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	370		50	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-57-2
Date Collected: 11/02/21 08:41
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Aroclor-1248	170		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		25 - 126			11/04/21 21:43	11/10/21 11:45	1
DCB Decachlorobiphenyl (Surr)	85		20 - 155			11/04/21 21:43	11/10/21 11:45	1

Client Sample ID: SB-57-4
Date Collected: 11/02/21 08:43
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1248	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	67		25 - 126			11/04/21 21:43	11/10/21 12:03	1
DCB Decachlorobiphenyl (Surr)	77		20 - 155			11/04/21 21:43	11/10/21 12:03	1

Client Sample ID: SB-58-2
Date Collected: 11/02/21 08:20
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Aroclor-1221	ND		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Aroclor-1232	ND		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Aroclor-1242	ND		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Aroclor-1248	850		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Aroclor-1254	ND		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Aroclor-1260	ND		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Aroclor-1262	ND		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Aroclor-1268	ND		250	ug/Kg		11/04/21 21:43	11/10/21 12:21	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	96		25 - 126			11/04/21 21:43	11/10/21 12:21	5
DCB Decachlorobiphenyl (Surr)	77		20 - 155			11/04/21 21:43	11/10/21 12:21	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-58-4
Date Collected: 11/02/21 08:20
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:38	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:38	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:38	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:38	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:38	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:38	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:38	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	71		25 - 126			11/04/21 21:43	11/10/21 12:38	1
DCB Decachlorobiphenyl (Surr)	95		20 - 155			11/04/21 21:43	11/10/21 12:38	1

Client Sample ID: SB-59-2
Date Collected: 11/02/21 09:13
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:56	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:56	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:56	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:56	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:56	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:56	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:56	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	71		25 - 126			11/04/21 21:43	11/10/21 12:56	1
DCB Decachlorobiphenyl (Surr)	102		20 - 155			11/04/21 21:43	11/10/21 12:56	1

Client Sample ID: SB-59-4
Date Collected: 11/02/21 09:14
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Aroclor-1221	ND		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Aroclor-1232	ND		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Aroclor-1242	ND		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Aroclor-1248	910		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Aroclor-1254	ND		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Aroclor-1260	ND		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Aroclor-1262	ND		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Aroclor-1268	ND		49	ug/Kg		11/04/21 21:43	11/10/21 10:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	65		25 - 126			11/04/21 21:43	11/10/21 10:27	1
DCB Decachlorobiphenyl (Surr)	70		20 - 155			11/04/21 21:43	11/10/21 10:27	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-60-2
Date Collected: 11/02/21 09:23
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:46	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:46	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:46	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:46	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:46	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:46	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:46	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	62		25 - 126			11/04/21 21:43	11/10/21 10:46	1
DCB Decachlorobiphenyl (Surr)	67		20 - 155			11/04/21 21:43	11/10/21 10:46	1

Client Sample ID: SB-60-4
Date Collected: 11/02/21 09:24
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:05	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:05	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:05	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:05	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:05	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:05	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:05	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	96		25 - 126			11/04/21 21:43	11/10/21 11:05	1
DCB Decachlorobiphenyl (Surr)	92		20 - 155			11/04/21 21:43	11/10/21 11:05	1

Client Sample ID: SB-61-2
Date Collected: 11/02/21 09:36
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:24	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:24	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:24	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:24	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:24	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:24	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:24	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	60		25 - 126			11/04/21 21:43	11/10/21 11:24	1
DCB Decachlorobiphenyl (Surr)	72		20 - 155			11/04/21 21:43	11/10/21 11:24	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-61-4
Date Collected: 11/02/21 09:38
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Aroclor-1221	ND		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Aroclor-1232	ND		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Aroclor-1242	ND		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Aroclor-1248	5800		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Aroclor-1254	ND		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Aroclor-1260	ND		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Aroclor-1262	ND		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Aroclor-1268	ND		500	ug/Kg		11/04/21 21:43	11/10/21 13:14	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	59		25 - 126			11/04/21 21:43	11/10/21 13:14	10
DCB Decachlorobiphenyl (Surr)	109		20 - 155			11/04/21 21:43	11/10/21 13:14	10

Client Sample ID: SB-62-2
Date Collected: 11/02/21 09:55
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:44	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:44	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:44	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:44	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:44	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:44	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:44	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	55		25 - 126			11/04/21 21:43	11/10/21 11:44	1
DCB Decachlorobiphenyl (Surr)	81		20 - 155			11/04/21 21:43	11/10/21 11:44	1

Client Sample ID: SB-62-4
Date Collected: 11/02/21 09:55
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-17
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 12:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	44		25 - 126			11/04/21 21:43	11/10/21 12:03	1
DCB Decachlorobiphenyl (Surr)	48		20 - 155			11/04/21 21:43	11/10/21 12:03	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-63-2
Date Collected: 11/02/21 10:04
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Aroclor-1248	76		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	69		25 - 126			11/04/21 21:43	11/10/21 13:32	1
DCB Decachlorobiphenyl (Surr)	73		20 - 155			11/04/21 21:43	11/10/21 13:32	1

Client Sample ID: SB-63-4
Date Collected: 11/02/21 10:05
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:41	100
Aroclor-1221	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:41	100
Aroclor-1232	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:41	100
Aroclor-1242	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:41	100
Aroclor-1254	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:41	100
Aroclor-1260	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:41	100
Aroclor-1262	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:41	100
Aroclor-1268	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:41	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	123		25 - 126			11/04/21 21:43	11/10/21 12:41	100
DCB Decachlorobiphenyl (Surr)	100		20 - 155			11/04/21 21:43	11/10/21 12:41	100

Client Sample ID: SB-64-2
Date Collected: 11/02/21 10:23
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Aroclor-1221	ND		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Aroclor-1232	ND		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Aroclor-1242	ND		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Aroclor-1248	64		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Aroclor-1254	ND		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Aroclor-1260	ND		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Aroclor-1262	ND		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Aroclor-1268	ND		49	ug/Kg		11/04/21 21:43	11/11/21 08:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	65		25 - 126			11/04/21 21:43	11/11/21 08:38	1
DCB Decachlorobiphenyl (Surr)	67		20 - 155			11/04/21 21:43	11/11/21 08:38	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-64-4
Date Collected: 11/02/21 10:23
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-23
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 13:23	100
Aroclor-1221	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 13:23	100
Aroclor-1232	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 13:23	100
Aroclor-1242	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 13:23	100
Aroclor-1254	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 13:23	100
Aroclor-1260	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 13:23	100
Aroclor-1262	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 13:23	100
Aroclor-1268	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 13:23	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	110		25 - 126			11/04/21 21:43	11/10/21 13:23	100
DCB Decachlorobiphenyl (Surr)	120		20 - 155			11/04/21 21:43	11/10/21 13:23	100

Client Sample ID: SB-65-2
Date Collected: 11/02/21 10:35
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-25
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:58	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:58	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:58	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:58	1
Aroclor-1248	14000		5000	ug/Kg		11/04/21 21:43	11/10/21 14:06	100
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:58	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:58	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:58	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	52		25 - 126			11/04/21 21:43	11/10/21 11:58	1
Tetrachloro-m-xylene (Surr)	69		25 - 126			11/04/21 21:43	11/10/21 14:06	100
DCB Decachlorobiphenyl (Surr)	67		20 - 155			11/04/21 21:43	11/10/21 11:58	1
DCB Decachlorobiphenyl (Surr)	97		20 - 155			11/04/21 21:43	11/10/21 14:06	100

Client Sample ID: SB-65-4
Date Collected: 11/02/21 10:37
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-26
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Aroclor-1221	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Aroclor-1232	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Aroclor-1242	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Aroclor-1248	16000		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Aroclor-1254	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Aroclor-1260	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Aroclor-1262	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Aroclor-1268	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:19	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	69		25 - 126			11/04/21 21:43	11/10/21 12:19	100
DCB Decachlorobiphenyl (Surr)	111		20 - 155			11/04/21 21:43	11/10/21 12:19	100

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-66-2
Date Collected: 11/02/21 10:44
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-28
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:40	100
Aroclor-1221	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:40	100
Aroclor-1232	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:40	100
Aroclor-1242	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:40	100
Aroclor-1254	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:40	100
Aroclor-1260	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:40	100
Aroclor-1262	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:40	100
Aroclor-1268	ND		5000	ug/Kg		11/04/21 21:43	11/10/21 12:40	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	100		25 - 126			11/04/21 21:43	11/10/21 12:40	100
DCB Decachlorobiphenyl (Surr)	117		20 - 155			11/04/21 21:43	11/10/21 12:40	100

Client Sample ID: SB-66-4
Date Collected: 11/02/21 10:44
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-29
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Aroclor-1248	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:44	11/11/21 08:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	71		25 - 126			11/04/21 21:44	11/11/21 08:57	1
DCB Decachlorobiphenyl (Surr)	81		20 - 155			11/04/21 21:44	11/11/21 08:57	1

Client Sample ID: SB-67-2
Date Collected: 11/02/21 10:53
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-31
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:13	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:13	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:13	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:13	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:13	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:13	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:13	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	67		25 - 126			11/04/21 21:39	11/09/21 10:13	1
DCB Decachlorobiphenyl (Surr)	77		20 - 155			11/04/21 21:39	11/09/21 10:13	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-67-4
Date Collected: 11/02/21 10:53
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-32
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Aroclor-1248	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:39	11/09/21 09:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	85		25 - 126			11/04/21 21:39	11/09/21 09:55	1
DCB Decachlorobiphenyl (Surr)	94		20 - 155			11/04/21 21:39	11/09/21 09:55	1

Client Sample ID: SB-68-2
Date Collected: 11/02/21 11:30
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-34
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Aroclor-1248	260		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:39	11/09/21 10:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	63		25 - 126			11/04/21 21:39	11/09/21 10:31	1
DCB Decachlorobiphenyl (Surr)	68		20 - 155			11/04/21 21:39	11/09/21 10:31	1

Client Sample ID: SB-68-4
Date Collected: 11/02/21 11:40
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-35
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:06	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:06	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:06	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:06	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:06	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:06	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:06	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	33		25 - 126			11/04/21 21:39	11/09/21 13:06	1
DCB Decachlorobiphenyl (Surr)	91		20 - 155			11/04/21 21:39	11/09/21 13:06	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-69-2
Date Collected: 11/02/21 11:20
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-36
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:57	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:57	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:57	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:57	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:57	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:57	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:57	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:39	11/09/21 13:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	77		25 - 126			11/04/21 21:39	11/09/21 13:57	1
DCB Decachlorobiphenyl (Surr)	109		20 - 155			11/04/21 21:39	11/09/21 13:57	1

Client Sample ID: SB-69-4
Date Collected: 11/02/21 11:23
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-37
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Aroclor-1248	370		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:39	11/09/21 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	72		25 - 126			11/04/21 21:39	11/09/21 14:15	1
DCB Decachlorobiphenyl (Surr)	88		20 - 155			11/04/21 21:39	11/09/21 14:15	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-59-2
Date Collected: 11/02/21 09:13
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	110000		25000	ug/Kg		11/04/21 21:43	11/11/21 01:23	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	109		25 - 126			11/04/21 21:43	11/11/21 01:23	500
DCB Decachlorobiphenyl (Surr)	97		20 - 155			11/04/21 21:43	11/11/21 01:23	500

Client Sample ID: SB-60-2
Date Collected: 11/02/21 09:23
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	20000		5000	ug/Kg		11/04/21 21:43	11/10/21 13:19	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	86		25 - 126			11/04/21 21:43	11/10/21 13:19	100
DCB Decachlorobiphenyl (Surr)	79		20 - 155			11/04/21 21:43	11/10/21 13:19	100

Client Sample ID: SB-60-4
Date Collected: 11/02/21 09:24
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	53000		5000	ug/Kg		11/04/21 21:43	11/10/21 13:38	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	59		25 - 126			11/04/21 21:43	11/10/21 13:38	100
DCB Decachlorobiphenyl (Surr)	91		20 - 155			11/04/21 21:43	11/10/21 13:38	100

Client Sample ID: SB-61-2
Date Collected: 11/02/21 09:36
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	6200		990	ug/Kg		11/04/21 21:43	11/10/21 13:57	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	68		25 - 126			11/04/21 21:43	11/10/21 13:57	20
DCB Decachlorobiphenyl (Surr)	91		20 - 155			11/04/21 21:43	11/10/21 13:57	20

Client Sample ID: SB-62-2
Date Collected: 11/02/21 09:55
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	26000		5000	ug/Kg		11/04/21 21:43	11/10/21 14:16	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	76		25 - 126			11/04/21 21:43	11/10/21 14:16	100
DCB Decachlorobiphenyl (Surr)	76		20 - 155			11/04/21 21:43	11/10/21 14:16	100

Client Sample ID: SB-62-4
Date Collected: 11/02/21 09:55
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-17
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	12000		5000	ug/Kg		11/04/21 21:43	11/10/21 14:35	100

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	49		25 - 126	11/04/21 21:43	11/10/21 14:35	100
DCB Decachlorobiphenyl (Surr)	64		20 - 155	11/04/21 21:43	11/10/21 14:35	100

Client Sample ID: SB-63-4
Date Collected: 11/02/21 10:05
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	240000		50000	ug/Kg		11/04/21 21:43	11/11/21 01:59	10000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	132	S1+	25 - 126	11/04/21 21:43	11/11/21 01:59	10000
DCB Decachlorobiphenyl (Surr)	284	S1+	20 - 155	11/04/21 21:43	11/11/21 01:59	10000

Client Sample ID: SB-64-4
Date Collected: 11/02/21 10:23
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-23
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	140000		25000	ug/Kg		11/04/21 21:43	11/10/21 13:44	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	98		25 - 126	11/04/21 21:43	11/10/21 13:44	500
DCB Decachlorobiphenyl (Surr)	142		20 - 155	11/04/21 21:43	11/10/21 13:44	500

Client Sample ID: SB-66-2
Date Collected: 11/02/21 10:44
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-28
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	250000		25000	ug/Kg		11/04/21 21:43	11/11/21 02:35	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126	11/04/21 21:43	11/11/21 02:35	500
DCB Decachlorobiphenyl (Surr)	162	S1+	20 - 155	11/04/21 21:43	11/11/21 02:35	500

Client Sample ID: SB-67-2
Date Collected: 11/02/21 10:53
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-31
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	830		250	ug/Kg		11/04/21 21:39	11/09/21 14:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	44		25 - 126	11/04/21 21:39	11/09/21 14:53	5
DCB Decachlorobiphenyl (Surr)	54		20 - 155	11/04/21 21:39	11/09/21 14:53	5

Client Sample ID: SB-68-4
Date Collected: 11/02/21 11:40
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-35
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	4400		500	ug/Kg		11/04/21 21:39	11/09/21 15:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	44		25 - 126	11/04/21 21:39	11/09/21 15:12	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-69-2
Date Collected: 11/02/21 11:20
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-36
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	9500		500	ug/Kg		11/04/21 21:39	11/09/21 15:30	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	75		25 - 126			11/04/21 21:39	11/09/21 15:30	10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL2

Client Sample ID: SB-58-4
Date Collected: 11/02/21 08:20
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	26000		5000	ug/Kg		11/04/21 21:43	11/11/21 01:05	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	97		25 - 126			11/04/21 21:43	11/11/21 01:05	100
<i>DCB Decachlorobiphenyl (Surr)</i>	106		20 - 155			11/04/21 21:43	11/11/21 01:05	100



Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-74572-1	SB-57-2	74	85
570-74572-1 MS	SB-57-2	79	93
570-74572-1 MSD	SB-57-2	77	88
570-74572-2	SB-57-4	67	77
570-74572-4	SB-58-2	96	77
570-74572-5	SB-58-4	71	95
570-74572-5 - DL2	SB-58-4	97	106
570-74572-7	SB-59-2	71	102
570-74572-7 - DL	SB-59-2	109	97
570-74572-8	SB-59-4	65	70
570-74572-10 - DL	SB-60-2	86	79
570-74572-10	SB-60-2	62	67
570-74572-11 - DL	SB-60-4	59	91
570-74572-11	SB-60-4	96	92
570-74572-13 - DL	SB-61-2	68	91
570-74572-13	SB-61-2	60	72
570-74572-14	SB-61-4	59	109
570-74572-16 - DL	SB-62-2	76	76
570-74572-16	SB-62-2	55	81
570-74572-17 - DL	SB-62-4	49	64
570-74572-17	SB-62-4	44	48
570-74572-19	SB-63-2	69	73
570-74572-20 - DL	SB-63-4	132 S1+	284 S1+
570-74572-20	SB-63-4	123	100
570-74572-22	SB-64-2	65	67
570-74572-23	SB-64-4	110	120
570-74572-23 - DL	SB-64-4	98	142
570-74572-25	SB-65-2	52	67
570-74572-25	SB-65-2	69	97
570-74572-26	SB-65-4	69	111
570-74572-28	SB-66-2	100	117
570-74572-28 - DL	SB-66-2	78	162 S1+
570-74572-29	SB-66-4	71	81
570-74572-31	SB-67-2	67	77
570-74572-32	SB-67-4	85	94
570-74572-32 MS	SB-67-4	87	97
570-74572-32 MSD	SB-67-4	86	95
570-74572-34	SB-68-2	63	68
LCS 570-191989/2-A	Lab Control Sample	84	98
LCS 570-191990/2-A	Lab Control Sample	85	96
LCSD 570-191989/3-A	Lab Control Sample Dup	79	97
LCSD 570-191990/3-A	Lab Control Sample Dup	79	91
MB 570-191989/1-A	Method Blank	83	98
MB 570-191990/1-A	Method Blank	81	91

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (25-126)	DCB2 (20-155)
570-74572-31 - DL	SB-67-2	44	54
570-74572-35	SB-68-4	33	91
570-74572-36	SB-69-2	77	109
570-74572-37	SB-69-4	72	88

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (25-126)
570-74572-35 - DL	SB-68-4	44
570-74572-36 - DL	SB-69-2	75

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-191989/1-A
Matrix: Solid
Analysis Batch: 192778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 191989

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Aroclor-1248	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:38	11/09/21 08:25	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
Tetrachloro-m-xylene (Surr)	83		25 - 126			11/04/21 21:38	11/09/21 08:25	1
DCB Decachlorobiphenyl (Surr)	98		20 - 155			11/04/21 21:38	11/09/21 08:25	1

Lab Sample ID: LCS 570-191989/2-A
Matrix: Solid
Analysis Batch: 192778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191989

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aroclor-1016	100	94.69		ug/Kg		95	50 - 142
Aroclor-1260	100	96.73		ug/Kg		97	50 - 150
Surrogate	LCS LCS		Limits			%Rec	%Rec. Limits
	%Recovery	Qualifier					
Tetrachloro-m-xylene (Surr)	84		25 - 126				
DCB Decachlorobiphenyl (Surr)	98		20 - 155				

Lab Sample ID: LCSD 570-191989/3-A
Matrix: Solid
Analysis Batch: 192778

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 191989

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Aroclor-1016	100	95.21		ug/Kg		95	50 - 142	1	30
Aroclor-1260	100	99.52		ug/Kg		100	50 - 150	3	30
Surrogate	LCSD LCSD		Limits			%Rec	%Rec. Limits		
	%Recovery	Qualifier							
Tetrachloro-m-xylene (Surr)	79		25 - 126						
DCB Decachlorobiphenyl (Surr)	97		20 - 155						

Lab Sample ID: 570-74572-32 MS
Matrix: Solid
Analysis Batch: 192778

Client Sample ID: SB-67-4
Prep Type: Total/NA
Prep Batch: 191989

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Aroclor-1016	ND		99.4	142.2		ug/Kg		143	20 - 175
Aroclor-1260	ND		99.4	88.11		ug/Kg		89	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-74572-32 MS

Matrix: Solid

Analysis Batch: 192778

Client Sample ID: SB-67-4

Prep Type: Total/NA

Prep Batch: 191989

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	87		25 - 126
DCB Decachlorobiphenyl (Surr)	97		20 - 155

Lab Sample ID: 570-74572-32 MSD

Matrix: Solid

Analysis Batch: 192778

Client Sample ID: SB-67-4

Prep Type: Total/NA

Prep Batch: 191989

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits	RPD	Limit	
Aroclor-1016	ND		99.2	135.8		ug/Kg		137	20 - 175	5	40	
Aroclor-1260	ND		99.2	86.45		ug/Kg		87	20 - 180	2	40	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	86		25 - 126
DCB Decachlorobiphenyl (Surr)	95		20 - 155

Lab Sample ID: MB 570-191990/1-A

Matrix: Solid

Analysis Batch: 193106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191990

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1
Aroclor-1221	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1
Aroclor-1232	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1
Aroclor-1242	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1
Aroclor-1248	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1
Aroclor-1254	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1
Aroclor-1260	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1
Aroclor-1262	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1
Aroclor-1268	ND		50	ug/Kg		11/04/21 21:43	11/10/21 10:15	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	81		25 - 126	11/04/21 21:43	11/10/21 10:15	1
DCB Decachlorobiphenyl (Surr)	91		20 - 155	11/04/21 21:43	11/10/21 10:15	1

Lab Sample ID: LCS 570-191990/2-A

Matrix: Solid

Analysis Batch: 193106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191990

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Aroclor-1016	100	100.2		ug/Kg		100	50 - 142	
Aroclor-1260	100	100.5		ug/Kg		100	50 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	85		25 - 126
DCB Decachlorobiphenyl (Surr)	96		20 - 155

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 570-191990/3-A

Matrix: Solid

Analysis Batch: 193106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 191990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Aroclor-1016	100	99.05		ug/Kg		99	50 - 142	1	30	
Aroclor-1260	100	96.09		ug/Kg		96	50 - 150	4	30	
		LCSD LCSD								
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	79		25 - 126							
DCB Decachlorobiphenyl (Surr)	91		20 - 155							

Lab Sample ID: 570-74572-1 MS

Matrix: Solid

Analysis Batch: 193106

Client Sample ID: SB-57-2

Prep Type: Total/NA

Prep Batch: 191990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Aroclor-1016	ND		99.4	120.8		ug/Kg		121	20 - 175			
Aroclor-1260	ND		99.4	111.6		ug/Kg		112	20 - 180			
		MS MS										
Surrogate	%Recovery	Qualifier	Limits									
Tetrachloro-m-xylene (Surr)	79		25 - 126									
DCB Decachlorobiphenyl (Surr)	93		20 - 155									

Lab Sample ID: 570-74572-1 MSD

Matrix: Solid

Analysis Batch: 193106

Client Sample ID: SB-57-2

Prep Type: Total/NA

Prep Batch: 191990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Aroclor-1016	ND		99.2	121.5		ug/Kg		122	20 - 175	1	40	
Aroclor-1260	ND		99.2	112.0		ug/Kg		113	20 - 180	0	40	
		MSD MSD										
Surrogate	%Recovery	Qualifier	Limits									
Tetrachloro-m-xylene (Surr)	77		25 - 126									
DCB Decachlorobiphenyl (Surr)	88		20 - 155									

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

GC Semi VOA

Prep Batch: 191989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-31	SB-67-2	Total/NA	Solid	3546	
570-74572-31 - DL	SB-67-2	Total/NA	Solid	3546	
570-74572-32	SB-67-4	Total/NA	Solid	3546	
570-74572-34	SB-68-2	Total/NA	Solid	3546	
570-74572-35 - DL	SB-68-4	Total/NA	Solid	3546	
570-74572-35	SB-68-4	Total/NA	Solid	3546	
570-74572-36 - DL	SB-69-2	Total/NA	Solid	3546	
570-74572-36	SB-69-2	Total/NA	Solid	3546	
570-74572-37	SB-69-4	Total/NA	Solid	3546	
MB 570-191989/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-191989/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-191989/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-74572-32 MS	SB-67-4	Total/NA	Solid	3546	
570-74572-32 MSD	SB-67-4	Total/NA	Solid	3546	

Prep Batch: 191990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-1	SB-57-2	Total/NA	Solid	3546	
570-74572-2	SB-57-4	Total/NA	Solid	3546	
570-74572-4	SB-58-2	Total/NA	Solid	3546	
570-74572-5	SB-58-4	Total/NA	Solid	3546	
570-74572-5 - DL2	SB-58-4	Total/NA	Solid	3546	
570-74572-7 - DL	SB-59-2	Total/NA	Solid	3546	
570-74572-7	SB-59-2	Total/NA	Solid	3546	
570-74572-8	SB-59-4	Total/NA	Solid	3546	
570-74572-10	SB-60-2	Total/NA	Solid	3546	
570-74572-10 - DL	SB-60-2	Total/NA	Solid	3546	
570-74572-11	SB-60-4	Total/NA	Solid	3546	
570-74572-11 - DL	SB-60-4	Total/NA	Solid	3546	
570-74572-13 - DL	SB-61-2	Total/NA	Solid	3546	
570-74572-13	SB-61-2	Total/NA	Solid	3546	
570-74572-14	SB-61-4	Total/NA	Solid	3546	
570-74572-16 - DL	SB-62-2	Total/NA	Solid	3546	
570-74572-16	SB-62-2	Total/NA	Solid	3546	
570-74572-17	SB-62-4	Total/NA	Solid	3546	
570-74572-17 - DL	SB-62-4	Total/NA	Solid	3546	
570-74572-19	SB-63-2	Total/NA	Solid	3546	
570-74572-20	SB-63-4	Total/NA	Solid	3546	
570-74572-20 - DL	SB-63-4	Total/NA	Solid	3546	
570-74572-22	SB-64-2	Total/NA	Solid	3546	
570-74572-23 - DL	SB-64-4	Total/NA	Solid	3546	
570-74572-23	SB-64-4	Total/NA	Solid	3546	
570-74572-25	SB-65-2	Total/NA	Solid	3546	
570-74572-26	SB-65-4	Total/NA	Solid	3546	
570-74572-28 - DL	SB-66-2	Total/NA	Solid	3546	
570-74572-28	SB-66-2	Total/NA	Solid	3546	
570-74572-29	SB-66-4	Total/NA	Solid	3546	
MB 570-191990/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-191990/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-191990/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-74572-1 MS	SB-57-2	Total/NA	Solid	3546	

QC Association Summary

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

GC Semi VOA (Continued)

Prep Batch: 191990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-1 MSD	SB-57-2	Total/NA	Solid	3546	

Analysis Batch: 192778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-31	SB-67-2	Total/NA	Solid	8082	191989
570-74572-32	SB-67-4	Total/NA	Solid	8082	191989
570-74572-34	SB-68-2	Total/NA	Solid	8082	191989
MB 570-191989/1-A	Method Blank	Total/NA	Solid	8082	191989
LCS 570-191989/2-A	Lab Control Sample	Total/NA	Solid	8082	191989
LCSD 570-191989/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	191989
570-74572-32 MS	SB-67-4	Total/NA	Solid	8082	191989
570-74572-32 MSD	SB-67-4	Total/NA	Solid	8082	191989

Analysis Batch: 192788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-31 - DL	SB-67-2	Total/NA	Solid	8082	191989
570-74572-35	SB-68-4	Total/NA	Solid	8082	191989
570-74572-35 - DL	SB-68-4	Total/NA	Solid	8082	191989
570-74572-36	SB-69-2	Total/NA	Solid	8082	191989
570-74572-36 - DL	SB-69-2	Total/NA	Solid	8082	191989
570-74572-37	SB-69-4	Total/NA	Solid	8082	191989

Analysis Batch: 193071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-23	SB-64-4	Total/NA	Solid	8082	191990
570-74572-23 - DL	SB-64-4	Total/NA	Solid	8082	191990
570-74572-25	SB-65-2	Total/NA	Solid	8082	191990
570-74572-25	SB-65-2	Total/NA	Solid	8082	191990
570-74572-26	SB-65-4	Total/NA	Solid	8082	191990
570-74572-28	SB-66-2	Total/NA	Solid	8082	191990

Analysis Batch: 193106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-1	SB-57-2	Total/NA	Solid	8082	191990
570-74572-2	SB-57-4	Total/NA	Solid	8082	191990
570-74572-4	SB-58-2	Total/NA	Solid	8082	191990
570-74572-5	SB-58-4	Total/NA	Solid	8082	191990
570-74572-5 - DL2	SB-58-4	Total/NA	Solid	8082	191990
570-74572-7	SB-59-2	Total/NA	Solid	8082	191990
570-74572-7 - DL	SB-59-2	Total/NA	Solid	8082	191990
570-74572-14	SB-61-4	Total/NA	Solid	8082	191990
570-74572-19	SB-63-2	Total/NA	Solid	8082	191990
570-74572-20 - DL	SB-63-4	Total/NA	Solid	8082	191990
570-74572-28 - DL	SB-66-2	Total/NA	Solid	8082	191990
MB 570-191990/1-A	Method Blank	Total/NA	Solid	8082	191990
LCS 570-191990/2-A	Lab Control Sample	Total/NA	Solid	8082	191990
LCSD 570-191990/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	191990
570-74572-1 MS	SB-57-2	Total/NA	Solid	8082	191990
570-74572-1 MSD	SB-57-2	Total/NA	Solid	8082	191990

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

GC Semi VOA

Analysis Batch: 193126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-8	SB-59-4	Total/NA	Solid	8082	191990
570-74572-10	SB-60-2	Total/NA	Solid	8082	191990
570-74572-10 - DL	SB-60-2	Total/NA	Solid	8082	191990
570-74572-11	SB-60-4	Total/NA	Solid	8082	191990
570-74572-11 - DL	SB-60-4	Total/NA	Solid	8082	191990
570-74572-13	SB-61-2	Total/NA	Solid	8082	191990
570-74572-13 - DL	SB-61-2	Total/NA	Solid	8082	191990
570-74572-16	SB-62-2	Total/NA	Solid	8082	191990
570-74572-16 - DL	SB-62-2	Total/NA	Solid	8082	191990
570-74572-17	SB-62-4	Total/NA	Solid	8082	191990
570-74572-17 - DL	SB-62-4	Total/NA	Solid	8082	191990
570-74572-20	SB-63-4	Total/NA	Solid	8082	191990

Analysis Batch: 193439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-22	SB-64-2	Total/NA	Solid	8082	191990
570-74572-29	SB-66-4	Total/NA	Solid	8082	191990

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-57-2

Lab Sample ID: 570-74572-1

Date Collected: 11/02/21 08:41

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	193106	11/10/21 11:45	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-57-4

Lab Sample ID: 570-74572-2

Date Collected: 11/02/21 08:43

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	193106	11/10/21 12:03	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-58-2

Lab Sample ID: 570-74572-4

Date Collected: 11/02/21 08:20

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		5	1 mL	1.0 mL	193106	11/10/21 12:21	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-58-4

Lab Sample ID: 570-74572-5

Date Collected: 11/02/21 08:20

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	193106	11/10/21 12:38	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL2		20.12 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL2	100			193106	11/11/21 01:05	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-59-2

Lab Sample ID: 570-74572-7

Date Collected: 11/02/21 09:13

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.94 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	193106	11/10/21 12:56	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		19.94 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	500			193106	11/11/21 01:23	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-59-4

Lab Sample ID: 570-74572-8

Date Collected: 11/02/21 09:14

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.32 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1			193126	11/10/21 10:27	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-60-2

Lab Sample ID: 570-74572-10

Date Collected: 11/02/21 09:23

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1			193126	11/10/21 10:46	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.13 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			193126	11/10/21 13:19	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-60-4

Lab Sample ID: 570-74572-11

Date Collected: 11/02/21 09:24

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1			193126	11/10/21 11:05	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.17 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			193126	11/10/21 13:38	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-61-2

Lab Sample ID: 570-74572-13

Date Collected: 11/02/21 09:36

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.19 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1			193126	11/10/21 11:24	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.19 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	20			193126	11/10/21 13:57	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-61-4

Lab Sample ID: 570-74572-14

Date Collected: 11/02/21 09:38

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		10	1 mL	1.0 mL	193106	11/10/21 13:14	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-62-2

Lab Sample ID: 570-74572-16

Date Collected: 11/02/21 09:55

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1			193126	11/10/21 11:44	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.18 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			193126	11/10/21 14:16	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-62-4

Lab Sample ID: 570-74572-17

Date Collected: 11/02/21 09:55

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1			193126	11/10/21 12:03	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.12 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			193126	11/10/21 14:35	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-63-2

Lab Sample ID: 570-74572-19

Date Collected: 11/02/21 10:04

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	193106	11/10/21 13:32	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-63-4

Lab Sample ID: 570-74572-20

Date Collected: 11/02/21 10:05

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		100			193126	11/10/21 12:41	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-63-4

Lab Sample ID: 570-74572-20

Date Collected: 11/02/21 10:05

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		20.13 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	10000			193106	11/11/21 01:59	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-64-2

Lab Sample ID: 570-74572-22

Date Collected: 11/02/21 10:23

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.22 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1			193439	11/11/21 08:38	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-64-4

Lab Sample ID: 570-74572-23

Date Collected: 11/02/21 10:23

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		100	1 mL	1.0 mL	193071	11/10/21 13:23	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546	DL		20.11 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	500	1 mL	1.0 mL	193071	11/10/21 13:44	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-65-2

Lab Sample ID: 570-74572-25

Date Collected: 11/02/21 10:35

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		1			193071	11/10/21 11:58	UHHN	ECL 1
Instrument ID: GC66										
Total/NA	Prep	3546			20.17 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		100			193071	11/10/21 14:06	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-65-4

Lab Sample ID: 570-74572-26

Date Collected: 11/02/21 10:37

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		100			193071	11/10/21 12:19	UHHN	ECL 1
Instrument ID: GC66										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-66-2

Lab Sample ID: 570-74572-28

Date Collected: 11/02/21 10:44

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		20.11 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082	DL	500			193106	11/11/21 02:35	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.11 g	10 mL	191990	11/04/21 21:43	USUL	ECL 1
Total/NA	Analysis	8082		100	1 mL	1.0 mL	193071	11/10/21 12:40	UHHN	ECL 1
Instrument ID: GC66										

Client Sample ID: SB-66-4

Lab Sample ID: 570-74572-29

Date Collected: 11/02/21 10:44

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	191990	11/04/21 21:44	USUL	ECL 1
Total/NA	Analysis	8082		1			193439	11/11/21 08:57	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-67-2

Lab Sample ID: 570-74572-31

Date Collected: 11/02/21 10:53

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082		1			192778	11/09/21 10:13	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.15 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082	DL	5			192788	11/09/21 14:53	UHHN	ECL 1
Instrument ID: GC63										

Client Sample ID: SB-67-4

Lab Sample ID: 570-74572-32

Date Collected: 11/02/21 10:53

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082		1			192778	11/09/21 09:55	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-68-2

Lab Sample ID: 570-74572-34

Date Collected: 11/02/21 11:30

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082		1			192778	11/09/21 10:31	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Client Sample ID: SB-68-4

Lab Sample ID: 570-74572-35

Date Collected: 11/02/21 11:40

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082		1			192788	11/09/21 13:06	UHHN	ECL 1
Instrument ID: GC63										
Total/NA	Prep	3546	DL		20.16 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			192788	11/09/21 15:12	UHHN	ECL 1
Instrument ID: GC63										

Client Sample ID: SB-69-2

Lab Sample ID: 570-74572-36

Date Collected: 11/02/21 11:20

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082		1			192788	11/09/21 13:57	UHHN	ECL 1
Instrument ID: GC63										
Total/NA	Prep	3546	DL		20.14 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			192788	11/09/21 15:30	UHHN	ECL 1
Instrument ID: GC63										

Client Sample ID: SB-69-4

Lab Sample ID: 570-74572-37

Date Collected: 11/02/21 11:23

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.06 g	10 mL	191989	11/04/21 21:39	USUL	ECL 1
Total/NA	Analysis	8082		1			192788	11/09/21 14:15	UHHN	ECL 1
Instrument ID: GC63										

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-74572-1	SB-57-2	Solid	11/02/21 08:41	11/02/21 13:47
570-74572-2	SB-57-4	Solid	11/02/21 08:43	11/02/21 13:47
570-74572-4	SB-58-2	Solid	11/02/21 08:20	11/02/21 13:47
570-74572-5	SB-58-4	Solid	11/02/21 08:20	11/02/21 13:47
570-74572-7	SB-59-2	Solid	11/02/21 09:13	11/02/21 13:47
570-74572-8	SB-59-4	Solid	11/02/21 09:14	11/02/21 13:47
570-74572-10	SB-60-2	Solid	11/02/21 09:23	11/02/21 13:47
570-74572-11	SB-60-4	Solid	11/02/21 09:24	11/02/21 13:47
570-74572-13	SB-61-2	Solid	11/02/21 09:36	11/02/21 13:47
570-74572-14	SB-61-4	Solid	11/02/21 09:38	11/02/21 13:47
570-74572-16	SB-62-2	Solid	11/02/21 09:55	11/02/21 13:47
570-74572-17	SB-62-4	Solid	11/02/21 09:55	11/02/21 13:47
570-74572-19	SB-63-2	Solid	11/02/21 10:04	11/02/21 13:47
570-74572-20	SB-63-4	Solid	11/02/21 10:05	11/02/21 13:47
570-74572-22	SB-64-2	Solid	11/02/21 10:23	11/02/21 13:47
570-74572-23	SB-64-4	Solid	11/02/21 10:23	11/02/21 13:47
570-74572-25	SB-65-2	Solid	11/02/21 10:35	11/02/21 13:47
570-74572-26	SB-65-4	Solid	11/02/21 10:37	11/02/21 13:47
570-74572-28	SB-66-2	Solid	11/02/21 10:44	11/02/21 13:47
570-74572-29	SB-66-4	Solid	11/02/21 10:44	11/02/21 13:47
570-74572-31	SB-67-2	Solid	11/02/21 10:53	11/02/21 13:47
570-74572-32	SB-67-4	Solid	11/02/21 10:53	11/02/21 13:47
570-74572-34	SB-68-2	Solid	11/02/21 11:30	11/02/21 13:47
570-74572-35	SB-68-4	Solid	11/02/21 11:40	11/02/21 13:47
570-74572-36	SB-69-2	Solid	11/02/21 11:20	11/02/21 13:47
570-74572-37	SB-69-4	Solid	11/02/21 11:23	11/02/21 13:47

74572



Calscience

CHAIN OF CUSTODY RECORD

DATE: 11/2/2021

PAGE: 2 OF 4

7440 Lincoln Way Garden Grove, CA 92841-1427 • (714) 895-5494
 For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: Batavia / SC1123-13	P.O. NO. 100030960
ADDRESS: 16644 W. Bernardo Dr. Suite 301		PROJECT CONTACT: Brian Rockwell	SAMPLER(S) (PRINT) Brittany Theilen
CITY: San Diego	STATE: CA	ZIP: 92127	
TEL: 619-309-9549	E-MAIL: BRockwell@geosyntec.com		

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY
 24 HR
 48 HR
 72 HR
 5 DAYS
 STANDARD

COELT EDF
 GLOBAL ID: _____
 ECI PROJECT NO. _____
 LOG CODE: _____

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs. <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals. <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6						
--	--	---	-----------	--	-------------	-------------------	--	--------------	-------------------	-------------	---	---	---	--	--	--	--	--	--

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filled	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs. <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals. <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	Hdd												
		DATE	TIME																																
11	SB-60-4	11/2/21	0924	S	1	X														X															
12	SB-60-6		0925																																
13	SB-61-2		0936																	X															
14	SB-61-4		0938																	X															
15	SB-61-6		0940																																
16	SB-62-2		0955																	X															
17	SB-62-4		0955																	X															
18	SB-62-6		0952																																
19	SB-63-2		1004																	X															
20	SB-63-4		1005																	X															

Relinquished by: (Signature) <i>Brittany Theilen</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 11/2/21	Time: 1347
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:





Calscience

CHAIN OF CUSTODY RECORD

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
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DATE: 11/2/2021

PAGE: 4 OF 4

LABORATORY CLIENT: Geosyntec Consultants						CLIENT PROJECT NAME / NUMBER: Batavia / SC1123-13						P.O. NO: 1000309160																		
ADDRESS: 16644 W. Bernardo Dr. Suite 301						PROJECT CONTACT: Brian Rodewell						SAMPLER(S) (PRINT): Brittany Thullen																		
CITY: San Diego		STATE: CA		ZIP: 92127		REQUESTED ANALYSES Please check box or fill in blank as needed																								
TEL: 619-309-9549		E-MAIL: Brodewell@geosyntec.com																												
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):						<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD																								
<input type="checkbox"/> COELT EDF		GLOBAL ID:		ECI PROJECT NO										LOG CODE:																
SPECIAL INSTRUCTIONS:						<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td>Unpreserved</td> <td>Preserved</td> <td>Field Filtered</td> <td><input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO</td> <td><input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO</td> <td>TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44</td> <td>TPH</td> <td>BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/></td> <td>VOCs (8260)</td> <td>Oxygenates (8260)</td> <td>Prep (5035), <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core</td> <td>SVOCs (8270)</td> <td>Pesticides (8081)</td> <td>PCBs (8082)</td> <td>PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM</td> <td>T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X</td> <td>Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6</td> <td>H2O2</td> </tr> </table>						Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035), <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	H2O2	
Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44							TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035), <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	H2O2							
LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.							Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035), <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	H2O2	
	31 SB-67-2	11/2/21	1053	S	1							X													X					
	32 SB-67-4		1053																						X					
	33 SB-67-6		1057																										X	
	34 SB-68-2		1130																						X					
	35 SB-68-4		1140																						X					
	SB-68-6																												X	(BT)
	36 SB-69-2		1120																						X					
	37 SB-69-4		1123																X											
	38 SB-69-6	↓	1125	↓	↓	↓																	X							

Relinquished by (Signature): Brittany Thullen	Received by (Signature/Affiliation): [Signature] ECI	Date: 11/2/21	Time: 1347
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-74572-1

Login Number: 74572

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Cortez Diaz, Antonio

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-71656-2
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Brian Rockwell



Authorized for release by:
11/5/2021 5:23:30 PM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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results through
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Job ID: 570-71656-2

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-71656-2

Comments

No additional comments.

Receipt

The samples were received on 10/1/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3546: The following sample was analyzed outside of holding time due to client request past holding time: SB-52-6 (570-71656-45). 8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-52-6
Date Collected: 10/01/21 13:42
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-45
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1
Aroclor-1221	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1
Aroclor-1232	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1
Aroclor-1242	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1
Aroclor-1248	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1
Aroclor-1254	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1
Aroclor-1260	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1
Aroclor-1262	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1
Aroclor-1268	ND	H	50	ug/Kg	-	11/03/21 12:39	11/05/21 06:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72	-	25 - 126	11/03/21 12:39	11/05/21 06:49	1
<i>DCB Decachlorobiphenyl (Surr)</i>	92	-	20 - 155	11/03/21 12:39	11/05/21 06:49	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-71656-45	SB-52-6	72	92
570-74282-A-5-A MS	Matrix Spike	61	68
570-74282-A-5-B MSD	Matrix Spike Duplicate	61	70
LCS 570-191457/2-A	Lab Control Sample	78	90
LCSD 570-191457/3-A	Lab Control Sample Dup	85	98
MB 570-191457/1-A	Method Blank	85	98

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-191457/1-A
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 191457

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1221	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1232	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1242	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1248	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1254	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1260	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1262	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1268	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	85		25 - 126	11/03/21 12:38	11/04/21 23:39	1
DCB Decachlorobiphenyl (Surr)	98		20 - 155	11/03/21 12:38	11/04/21 23:39	1

Lab Sample ID: LCS 570-191457/2-A
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191457

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor-1016	100	99.35		ug/Kg		99	50 - 142
Aroclor-1260	100	98.51		ug/Kg		99	50 - 150

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	78		25 - 126
DCB Decachlorobiphenyl (Surr)	90		20 - 155

Lab Sample ID: LCSD 570-191457/3-A
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 191457

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Aroclor-1016	100	99.27		ug/Kg		99	50 - 142	0	30
Aroclor-1260	100	100.6		ug/Kg		101	50 - 150	2	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	85		25 - 126
DCB Decachlorobiphenyl (Surr)	98		20 - 155

Lab Sample ID: 570-74282-A-5-A MS
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 191457

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aroclor-1016	ND	F2	99.3	82.93		ug/Kg		84	20 - 175
Aroclor-1260	ND		99.3	82.04		ug/Kg		83	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-74282-A-5-A MS
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 191457

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	61		25 - 126
DCB Decachlorobiphenyl (Surr)	68		20 - 155

Lab Sample ID: 570-74282-A-5-B MSD
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 191457

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
Aroclor-1016	ND	F2	99.2	77.75		ug/Kg		78	20 - 175	6	40
Aroclor-1260	ND		99.2	84.44		ug/Kg		85	20 - 180	3	40

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	61		25 - 126
DCB Decachlorobiphenyl (Surr)	70		20 - 155



QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

GC Semi VOA

Prep Batch: 191457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71656-45	SB-52-6	Total/NA	Solid	3546	
MB 570-191457/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-191457/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-191457/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-74282-A-5-A MS	Matrix Spike	Total/NA	Solid	3546	
570-74282-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 191875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71656-45	SB-52-6	Total/NA	Solid	8082	191457
MB 570-191457/1-A	Method Blank	Total/NA	Solid	8082	191457
LCS 570-191457/2-A	Lab Control Sample	Total/NA	Solid	8082	191457
LCSD 570-191457/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	191457
570-74282-A-5-A MS	Matrix Spike	Total/NA	Solid	8082	191457
570-74282-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	191457

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Client Sample ID: SB-52-6
Date Collected: 10/01/21 13:42
Date Received: 10/01/21 17:00

Lab Sample ID: 570-71656-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	191457	11/03/21 12:39	USUL	ECL 1
Total/NA	Analysis	8082		1			191875	11/05/21 06:49	UHHN	ECL 1

Instrument ID: GC58

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71656-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-71656-45	SB-52-6	Solid	10/01/21 13:42	10/01/21 17:00

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- 10
- 11
- 12
- 13
- 14

Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Monday, November 1, 2021 4:19 PM
To: Nowak, Stephen
Subject: RE: Eurofins Calscience report and EDD files from 570-71656-1 Batavia / SC1123/13

EXTERNAL EMAIL*

Thanks Steve! Yes, let's go ahead and run them.

Brian Rockwell
(619) 810-4033

From: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Sent: Monday, November 1, 2021 3:51 PM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>
Subject: RE: Eurofins Calscience report and EDD files from 570-71656-1 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hi Brian-

SB-29-6, SB-31-6, SB-52-6

Yes, we have them – they are outside holding time now (14 days).

Did you still want them run for EPA 8082 PCBs?

SB-6-6- no, this sample has been disposed of.

Stephen Nowak
Project Manager



Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: Stephen.Nowak@eurofinset.com
Website: www.EurofinsUS.com/Calscience

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Monday, November 1, 2021 2:55 PM
To: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Subject: RE: Eurofins Calscience report and EDD files from 570-71656-1 Batavia / SC1123/13

EXTERNAL EMAIL*

Hi Steve!

Do you still have the 6ft soil samples on hold, and if so, can you please go ahead and run SB-29-6, SB-31-6, SB-52-6, and if you happen to still have it from the prior event, SB-6-6?

Thanks,

Brian Rockwell
(619) 810-4033

From: Stephen Nowak <Stephen.Nowak@eurofinset.com>
Sent: Thursday, October 7, 2021 11:51 AM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>
Subject: Eurofins Calscience report and EDD files from 570-71656-1 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hello,

Attached please find the report and EDD files for job 570-71656-1; Batavia / SC1123/13

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: Stephen.Nowak@eurofinset.com
www.eurofinsus.com/env



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WO # / LAB USE ONLY

DATE: 10/1/21
PAGE: 3 OF 6

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: Bortavia / SC1123-13		P.O. NO. 160029873
ADDRESS: 16644 W. Bernardo Dr. Ste 301		PROJECT CONTACT: Brian Rockwell		SAMPLER(S): (PRINT) M. Lawrence
CITY: San Diego	STATE: CA	ZIP: 92127		
TEL: 619-309-9549	E-MAIL: BRockwell@geosyntec.com			

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Please check box or fill in blank as needed

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Hold
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LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Hold		
		DATE	TIME																						
21	SB-44-6	10/1/21	1038	S	1	X																		X	
22	SB-45-2		1128																X						
23	SB-45-4		1128																X						
24	SB-45-6		1128																					X	
25	SB-46-2		1140																	X					
26	SB-46-4		1140																	X					
27	SB-46-6		1140																					X	
28	SB-47-2		1155																	X					
29	SB-47-4		1155																	X					
30	SB-47-6		1155																					X	

Relinquished by (Signature):	Received by (Signature/Affiliation): Dannyle G	Date: 10/1/21	Time: 17:00
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:





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WO # / LAB USE ONLY

DATE: 10/1/21
 PAGE: 4 OF 6

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: Batavia / SC1123-13		P.O. NO. 100029873	
ADDRESS: 16644 W. Bernardo Dr. Ste 301		PROJECT CONTACT: Brian Rockwell		SAMPLER(S): (PRINT) M LAWRENCE	
CITY: San Diego	STATE: CA	ZIP: 92127			
TEL: 619-309-9549	E-MAIL: Brockwell@geosyntec.com				

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Please check box or fill in blank as needed

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Hold
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LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Hold	
		DATE	TIME																					
31	SB-48-2	10/1/21	1305	S	1	X													X					
32	SB-48-4		1305																X					
33	SB-48-b		1305																				X	
34	SB-49-2		1258																X					
35	SB-49-4		1258																X					
36	SB-49-b		1258																				X	
37	SB-50-2		1315																X					
38	SB-50-4		1315																X					
39	SB-50-b		1315																				X	
40	SB-51-2		1342																X					

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) Dannyle G	Date: 10/1/21	Time: 17:00
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time





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DATE: 10/1/21
 PAGE: 6 OF 6

LABORATORY CLIENT: Geosyntec Consultants				CLIENT PROJECT NAME / NUMBER: Batavia / SC1123				P.O. NO. 100029873																			
ADDRESS: 16644 W. Bernardo Dr. Suite 301				PROJECT CONTACT: Brian Rockwell				SAMPLER(S) (PRINT) M Lawrence																			
CITY: SAN Diego		STATE: CA		ZIP: 92121																							
TEL: 619-309-9549		E-MAIL: Brockwell@geosyntec.com		REQUESTED ANALYSES																							
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD				Please check box or fill in blank as needed																							
<input type="checkbox"/> COELT EDF		GLOBAL ID:		LOG CODE:																							
SPECIAL INSTRUCTIONS:				Unpreserved		Preserved		Field Filtered		<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO <input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44 TPH BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/> VOCs (8260) Oxygenates (8260) Prep (6035): <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core SVOCs (8270) Pesticides (8081) PCBs (8082) PAHs: <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6 PH																	
LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (6035): <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs: <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	PH				
		DATE	TIME																								
51	SB-546	10/1/21	1358	S	1	X																			X		
52	SB-55-2		1424																	X							
53	SB-55-4		1424																	X							
54	SB-55-6		1424																					X			
55	SB-56-2		1435																	X							
56	SB-56-4		1435																	X							
57	SB-56-6		1435																					X			
Relinquished by (Signature):						Received by (Signature/Affiliation):						Date: <u>10/1/21</u>		Time: <u>17:00</u>													
Relinquished by (Signature):						Received by (Signature/Affiliation):						Date:		Time:													
Relinquished by (Signature):						Received by (Signature/Affiliation):						Date:		Time:													

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-71656-2

Login Number: 71656

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Jayesh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-71564-2
Client Project/Site: Batavia / SC1123/13

For:

Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
11/5/2021 5:20:21 PM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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results through
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Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Job ID: 570-71564-2

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-71564-2

Comments

No additional comments.

Receipt

The samples were received on 9/30/2021 5:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples were analyzed outside of holding time due to client requested past holding time: SB-29-6 (570-71564-30) and SB-31-6 (570-71564-33). 8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-29-6
Date Collected: 09/30/21 10:25
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-30
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Aroclor-1221	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Aroclor-1232	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Aroclor-1242	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Aroclor-1248	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Aroclor-1254	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Aroclor-1260	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Aroclor-1262	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Aroclor-1268	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			11/03/21 12:39	11/05/21 06:13	1
DCB Decachlorobiphenyl (Surr)	84		20 - 155			11/03/21 12:39	11/05/21 06:13	1

Client Sample ID: SB-31-6
Date Collected: 09/30/21 11:00
Date Received: 09/30/21 17:15

Lab Sample ID: 570-71564-33
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Aroclor-1221	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Aroclor-1232	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Aroclor-1242	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Aroclor-1248	75	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Aroclor-1254	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Aroclor-1260	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Aroclor-1262	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Aroclor-1268	ND	H	50	ug/Kg		11/03/21 12:39	11/05/21 06:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	70		25 - 126			11/03/21 12:39	11/05/21 06:32	1
DCB Decachlorobiphenyl (Surr)	69		20 - 155			11/03/21 12:39	11/05/21 06:32	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-71564-30	SB-29-6	73	84
570-71564-33	SB-31-6	70	69
570-74282-A-5-A MS	Matrix Spike	61	68
570-74282-A-5-B MSD	Matrix Spike Duplicate	61	70
LCS 570-191457/2-A	Lab Control Sample	78	90
LCSD 570-191457/3-A	Lab Control Sample Dup	85	98
MB 570-191457/1-A	Method Blank	85	98

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-191457/1-A
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 191457

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1221	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1232	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1242	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1248	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1254	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1260	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1262	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1
Aroclor-1268	ND		50	ug/Kg		11/03/21 12:38	11/04/21 23:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	85		25 - 126	11/03/21 12:38	11/04/21 23:39	1
DCB Decachlorobiphenyl (Surr)	98		20 - 155	11/03/21 12:38	11/04/21 23:39	1

Lab Sample ID: LCS 570-191457/2-A
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 191457

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor-1016	100	99.35		ug/Kg		99	50 - 142
Aroclor-1260	100	98.51		ug/Kg		99	50 - 150

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	78		25 - 126
DCB Decachlorobiphenyl (Surr)	90		20 - 155

Lab Sample ID: LCSD 570-191457/3-A
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 191457

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Aroclor-1016	100	99.27		ug/Kg		99	50 - 142	0	30
Aroclor-1260	100	100.6		ug/Kg		101	50 - 150	2	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	85		25 - 126
DCB Decachlorobiphenyl (Surr)	98		20 - 155

Lab Sample ID: 570-74282-A-5-A MS
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 191457

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aroclor-1016	ND	F2	99.3	82.93		ug/Kg		84	20 - 175
Aroclor-1260	ND		99.3	82.04		ug/Kg		83	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-74282-A-5-A MS
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 191457

<u>Surrogate</u>	<u>MS MS</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
<i>Tetrachloro-m-xylene (Surr)</i>	61		25 - 126
<i>DCB Decachlorobiphenyl (Surr)</i>	68		20 - 155

Lab Sample ID: 570-74282-A-5-B MSD
Matrix: Solid
Analysis Batch: 191875

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 191457

<u>Analyte</u>	<u>Sample</u>		<u>Spike</u>	<u>MSD MSD</u>		<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u>		<u>RPD</u>	
	<u>Result</u>	<u>Qualifier</u>		<u>Added</u>	<u>Result</u>				<u>Qualifier</u>	<u>Limits</u>	<u>RPD</u>	<u>Limit</u>
Aroclor-1016	ND	F2	99.2	77.75		ug/Kg		78	20 - 175	6	40	
Aroclor-1260	ND		99.2	84.44		ug/Kg		85	20 - 180	3	40	

<u>Surrogate</u>	<u>MSD MSD</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
<i>Tetrachloro-m-xylene (Surr)</i>	61		25 - 126
<i>DCB Decachlorobiphenyl (Surr)</i>	70		20 - 155

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

GC Semi VOA

Prep Batch: 191457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-30	SB-29-6	Total/NA	Solid	3546	
570-71564-33	SB-31-6	Total/NA	Solid	3546	
MB 570-191457/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-191457/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-191457/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-74282-A-5-A MS	Matrix Spike	Total/NA	Solid	3546	
570-74282-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 191875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-71564-30	SB-29-6	Total/NA	Solid	8082	191457
570-71564-33	SB-31-6	Total/NA	Solid	8082	191457
MB 570-191457/1-A	Method Blank	Total/NA	Solid	8082	191457
LCS 570-191457/2-A	Lab Control Sample	Total/NA	Solid	8082	191457
LCSD 570-191457/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	191457
570-74282-A-5-A MS	Matrix Spike	Total/NA	Solid	8082	191457
570-74282-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	191457

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Client Sample ID: SB-29-6

Lab Sample ID: 570-71564-30

Date Collected: 09/30/21 10:25

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	191457	11/03/21 12:39	USUL	ECL 1
Total/NA	Analysis	8082		1			191875	11/05/21 06:13	UHNN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-31-6

Lab Sample ID: 570-71564-33

Date Collected: 09/30/21 11:00

Matrix: Solid

Date Received: 09/30/21 17:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	191457	11/03/21 12:39	USUL	ECL 1
Total/NA	Analysis	8082		1			191875	11/05/21 06:32	UHNN	ECL 1

Instrument ID: GC58

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-71564-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-71564-30	SB-29-6	Solid	09/30/21 10:25	09/30/21 17:15
570-71564-33	SB-31-6	Solid	09/30/21 11:00	09/30/21 17:15

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- 11
- 12
- 13
- 14

Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Monday, November 1, 2021 4:19 PM
To: Nowak, Stephen
Subject: RE: Eurofins Calscience report and EDD files from 570-71656-1 Batavia / SC1123/13

EXTERNAL EMAIL*

Thanks Steve! Yes, let's go ahead and run them.

Brian Rockwell
(619) 810-4033

From: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Sent: Monday, November 1, 2021 3:51 PM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>
Subject: RE: Eurofins Calscience report and EDD files from 570-71656-1 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hi Brian-

SB-29-6, SB-31-6, SB-52-6

Yes, we have them – they are outside holding time now (14 days).

Did you still want them run for EPA 8082 PCBs?

SB-6-6- no, this sample has been disposed of.

Stephen Nowak
Project Manager



Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: Stephen.Nowak@eurofinset.com
Website: www.EurofinsUS.com/Calscience

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Monday, November 1, 2021 2:55 PM
To: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Subject: RE: Eurofins Calscience report and EDD files from 570-71656-1 Batavia / SC1123/13

EXTERNAL EMAIL*

Hi Steve!

Do you still have the 6ft soil samples on hold, and if so, can you please go ahead and run SB-29-6, SB-31-6, SB-52-6, and if you happen to still have it from the prior event, SB-6-6?

Thanks,

Brian Rockwell
(619) 810-4033

From: Stephen Nowak <Stephen.Nowak@eurofinset.com>
Sent: Thursday, October 7, 2021 11:51 AM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>
Subject: Eurofins Calscience report and EDD files from 570-71656-1 Batavia / SC1123/13

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Hello,

Attached please find the report and EDD files for job 570-71656-1; Batavia / SC1123/13

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: Stephen.Nowak@eurofinset.com
www.eurofinsus.com/env



Calscience

CHAIN OF CUSTODY RECORD

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
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WO # / LAB USE ONLY

DATE: 9/30/21
PAGE: 2 OF 0

LABORATORY CLIENT:
Geosyntec Consultants
ADDRESS:
16644 W. Bernardo Dr. Ste 301
CITY: San Diego STATE: CA ZIP: 92127
TEL: 619-309-9549 E-MAIL: BStockwell@geosyntec.com

CLIENT PROJECT NAME / NUMBER:
Batavia / SC1123-13 P.O. NO.
100029873
PROJECT CONTACT:
Brian Rockwell SAMPLER(S): (PRINT)
M. Lawrence

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
 COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed													
TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6
										X			
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										X			X
										X			
										X			X
										X			
										X			
										X			

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
11	SB-20-4	9/30/21	1041	S	1	X		
12	SB-20-6		1041					
13	SB-24-2		0908					
14	SB-24-4		0908					
15	SB-24-6		0908					
16	SB-25-2		0918					
17	SB-25-4		0918					
18	SB-25-6		0918					
19	SB-26-2		0934					
20	SB-26-4		0934					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		09/30/21	15:15
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		09/30/21	17:15
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:



71564



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WO # / LAB USE ONLY

DATE: 9/30/21
 PAGE: 3 OF 6

LABORATORY CLIENT:
Geosyntec Consultants
 ADDRESS:
16644 W. Bernardo Dr. Ste 301
 CITY: San Diego STATE: CA ZIP: 92127
 TEL: 619-309-9549 E-MAIL: B.Rodewell@geosyntec.com

CLIENT PROJECT NAME / NUMBER:
Batavia / SC1123-13 P.O. NO.: 100029873
 PROJECT CONTACT:
Brian Rodewell SAMPLER(S): (PRINT)
M. Lawrence

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
 COELT EDF GLOBAL ID: LOG CODE:

Please check box or fill in blank as needed

Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(μ) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	Hold
X																	X
													X				
													X				X
													X				
													X				X
													X				
													X				X
													X				
													X				X

SPECIAL INSTRUCTIONS

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
21	SB-26-6	9/30/21	0934	S	1	X		
22	SB-27-2		0949					
23	SB-27-4		0949					
24	SB-27-6		0949					
25	SB-28-2		1000					
26	SB-28-4		1000					
27	SB-28-6		1000					
28	SB-29-2		1025					
29	SB-29-4		1025					
30	SB-29-6		1025					

Relinquished by (Signature): <u>[Signature]</u>	Received by (Signature/Affiliation): <u>[Signature]</u>	Date: <u>09/30/21</u>	Time: <u>15:15</u>
Relinquished by (Signature): <u>[Signature]</u>	Received by (Signature/Affiliation): <u>[Signature]</u>	Date: <u>09/30/21</u>	Time: <u>17:15</u>
Relinquished by (Signature): <u>[Signature]</u>	Received by (Signature/Affiliation): <u>[Signature]</u>	Date:	Time:

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11/5/2021





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CHAIN OF CUSTODY RECORD

71564

WO # / LAB USE ONLY

DATE: 9/30/21
PAGE: 4 OF 6

LABORATORY CLIENT:
Geosyntec Consultants
ADDRESS:
116644 W. Bernardo Dr. Ste 301
CITY: San Diego STATE: CA ZIP: 92127
TEL: 619-309-9519 E-MAIL: BBlockwell@geosyntec.com

CLIENT PROJECT NAME / NUMBER:
Batavia/SL1123-13
PROJECT CONTACT:
Brien Rodwell
P.O. NO.: 100029873
SAMPLER(S). (PRINT): M. Lawrence

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
 COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/1747X <input type="checkbox"/> 6020/1747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6		
X													X					
													X					
													X					X
													X					
													X					X
													X					
													X					X
													X					

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
31	SB-31-2	9/30/21	1100	S	1	X		
32	SB-31-4		1100					
33	SB-31-6		1100					
34	SB-32-2		1115					
35	SB-32-4		1115					
36	SB-32-6		1115					
37	SB-33-2		1130					
38	SB-33-4		1130					
39	SB-33-6		1130					
40	SB-34-2		1150					

Relinquished by (Signature):	Received by (Signature/Affiliation):	Date: 09/30/21	Time: 15:15
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date: 09/30/21	Time: 17:15
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:

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11/5/2021



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-71564-2

Login Number: 71564

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Jayesh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Southwest, Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-79842-1
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
1/3/2022 5:31:51 PM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Job ID: 570-79842-1

Laboratory: Eurofins Southwest, Calscience

Narrative

Job Narrative 570-79842-1

Comments

No additional comments.

Receipt

The samples were received on 12/21/2021 2:42 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8° C.

GC Semi VOA

Method 8082: The following sample required a dilution due to the nature of the sample matrix: SB-76-3 (570-79842-22). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-78-3 (570-79842-26), (570-79842-A-26 MS) and (570-79842-A-26 MSD). The reagent lot number used was: 2061690 8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Client Sample ID: SB-70-4

Lab Sample ID: 570-79842-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	3300		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-73-2

Lab Sample ID: 570-79842-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	570		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-73-3

Lab Sample ID: 570-79842-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	55000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-73-4

Lab Sample ID: 570-79842-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	6200		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-74-2

Lab Sample ID: 570-79842-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	180000		25000	ug/Kg	500		8082	Total/NA

Client Sample ID: SB-74-4

Lab Sample ID: 570-79842-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	35000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-74-3

Lab Sample ID: 570-79842-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	210000		25000	ug/Kg	500		8082	Total/NA

Client Sample ID: SB-75-2

Lab Sample ID: 570-79842-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1800		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-75-3

Lab Sample ID: 570-79842-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	100000		50000	ug/Kg	1000		8082	Total/NA

Client Sample ID: SB-75-4

Lab Sample ID: 570-79842-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	8700		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-76-2

Lab Sample ID: 570-79842-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	12000		2500	ug/Kg	50		8082	Total/NA

Client Sample ID: SB-76-3

Lab Sample ID: 570-79842-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	570000		250000	ug/Kg	5000		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Southwest, Calscience

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Client Sample ID: SB-76-4

Lab Sample ID: 570-79842-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	12000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-77-4

Lab Sample ID: 570-79842-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	73		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-78-2

Lab Sample ID: 570-79842-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	92		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-78-3

Lab Sample ID: 570-79842-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	300		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-78-4

Lab Sample ID: 570-79842-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	31000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-79-2

Lab Sample ID: 570-79842-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	110		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-79-4

Lab Sample ID: 570-79842-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	24000		5000	ug/Kg	100		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Southwest, Calscience

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-70-4
Date Collected: 12/21/21 08:00
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:27	1
Aroclor-1221	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:27	1
Aroclor-1232	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:27	1
Aroclor-1242	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:27	1
Aroclor-1248	3300		500	ug/Kg	-	12/27/21 12:57	12/30/21 22:05	10
Aroclor-1254	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:27	1
Aroclor-1260	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:27	1
Aroclor-1262	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:27	1
Aroclor-1268	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			12/27/21 12:57	12/30/21 12:27	1
<i>Tetrachloro-m-xylene (Surr)</i>	75		25 - 126			12/27/21 12:57	12/30/21 22:05	10
<i>DCB Decachlorobiphenyl (Surr)</i>	87		20 - 155			12/27/21 12:57	12/30/21 12:27	1
<i>DCB Decachlorobiphenyl (Surr)</i>	108		20 - 155			12/27/21 12:57	12/30/21 22:05	10

Client Sample ID: SB-73-2
Date Collected: 12/21/21 09:02
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Aroclor-1221	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Aroclor-1232	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Aroclor-1242	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Aroclor-1248	570		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Aroclor-1254	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Aroclor-1260	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Aroclor-1262	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Aroclor-1268	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 12:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	73		25 - 126			12/27/21 12:57	12/30/21 12:45	1
<i>DCB Decachlorobiphenyl (Surr)</i>	86		20 - 155			12/27/21 12:57	12/30/21 12:45	1

Client Sample ID: SB-73-3
Date Collected: 12/21/21 09:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 13:02	1
Aroclor-1221	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 13:02	1
Aroclor-1232	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 13:02	1
Aroclor-1242	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 13:02	1
Aroclor-1254	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 13:02	1
Aroclor-1260	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 13:02	1
Aroclor-1262	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 13:02	1
Aroclor-1268	ND		50	ug/Kg	-	12/27/21 12:57	12/30/21 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	101		25 - 126			12/27/21 12:57	12/30/21 13:02	1
<i>DCB Decachlorobiphenyl (Surr)</i>	110		20 - 155			12/27/21 12:57	12/30/21 13:02	1

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-73-4
Date Collected: 12/21/21 09:09
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:20	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:20	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:20	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:20	1
Aroclor-1248	6200		500	ug/Kg		12/27/21 12:57	12/30/21 22:41	10
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:20	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:20	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:20	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	62		25 - 126			12/27/21 12:57	12/30/21 13:20	1
<i>Tetrachloro-m-xylene (Surr)</i>	62		25 - 126			12/27/21 12:57	12/30/21 22:41	10
<i>DCB Decachlorobiphenyl (Surr)</i>	74		20 - 155			12/27/21 12:57	12/30/21 13:20	1
<i>DCB Decachlorobiphenyl (Surr)</i>	88		20 - 155			12/27/21 12:57	12/30/21 22:41	10

Client Sample ID: SB-74-2
Date Collected: 12/21/21 09:21
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:38	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:38	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:38	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:38	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:38	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:38	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:38	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	64		25 - 126			12/27/21 12:57	12/30/21 13:38	1
<i>DCB Decachlorobiphenyl (Surr)</i>	144		20 - 155			12/27/21 12:57	12/30/21 13:38	1

Client Sample ID: SB-74-4
Date Collected: 12/21/21 09:32
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:56	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:56	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:56	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:56	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:56	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:56	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:56	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	59		25 - 126			12/27/21 12:57	12/30/21 13:56	1
<i>DCB Decachlorobiphenyl (Surr)</i>	139		20 - 155			12/27/21 12:57	12/30/21 13:56	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-74-3
Date Collected: 12/21/21 09:30
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:14	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:14	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:14	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:14	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:14	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:14	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:14	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	72		25 - 126			12/27/21 12:57	12/30/21 14:14	1
DCB Decachlorobiphenyl (Surr)	112		20 - 155			12/27/21 12:57	12/30/21 14:14	1

Client Sample ID: SB-75-2
Date Collected: 12/21/21 09:47
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:32	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:32	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:32	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:32	1
Aroclor-1248	1800		500	ug/Kg		12/27/21 12:57	12/31/21 02:16	10
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:32	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:32	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:32	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			12/27/21 12:57	12/30/21 14:32	1
DCB Decachlorobiphenyl (Surr)	84		20 - 155			12/27/21 12:57	12/30/21 14:32	1

Client Sample ID: SB-75-3
Date Collected: 12/21/21 09:48
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-17
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:50	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:50	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:50	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:50	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:50	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:50	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:50	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	75		25 - 126			12/27/21 12:57	12/30/21 14:50	1
DCB Decachlorobiphenyl (Surr)	142		20 - 155			12/27/21 12:57	12/30/21 14:50	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-75-4
Date Collected: 12/21/21 09:50
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-18
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:08	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:08	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:08	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:08	1
Aroclor-1248	8700		500	ug/Kg		12/27/21 12:57	12/31/21 03:10	10
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:08	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:08	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:08	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	58		25 - 126			12/27/21 12:57	12/30/21 15:08	1
<i>DCB Decachlorobiphenyl (Surr)</i>	130		20 - 155			12/27/21 12:57	12/30/21 15:08	1

Client Sample ID: SB-76-2
Date Collected: 12/21/21 10:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-21
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:26	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:26	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:26	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:26	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:26	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:26	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:26	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	68		25 - 126			12/27/21 12:57	12/30/21 15:26	1
<i>DCB Decachlorobiphenyl (Surr)</i>	111		20 - 155			12/27/21 12:57	12/30/21 15:26	1

Client Sample ID: SB-76-3
Date Collected: 12/21/21 10:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:44	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:44	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:44	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:44	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:44	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:44	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:44	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	55		25 - 126			12/27/21 12:57	12/30/21 15:44	1
<i>DCB Decachlorobiphenyl (Surr)</i>	108		20 - 155			12/27/21 12:57	12/30/21 15:44	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-76-4
Date Collected: 12/21/21 10:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-23
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 16:02	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 16:02	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 16:02	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 16:02	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 16:02	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 16:02	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 16:02	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		25 - 126			12/27/21 12:57	12/30/21 16:02	1
DCB Decachlorobiphenyl (Surr)	121		20 - 155			12/27/21 12:57	12/30/21 16:02	1

Client Sample ID: SB-77-4
Date Collected: 12/21/21 10:17
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-24
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Aroclor-1248	73		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			12/27/21 12:57	12/30/21 17:54	1
DCB Decachlorobiphenyl (Surr)	88		20 - 155			12/27/21 12:57	12/30/21 17:54	1

Client Sample ID: SB-78-2
Date Collected: 12/21/21 10:38
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-25
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Aroclor-1248	92		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126			12/27/21 12:57	12/30/21 18:12	1
DCB Decachlorobiphenyl (Surr)	91		20 - 155			12/27/21 12:57	12/30/21 18:12	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-78-3
Date Collected: 12/21/21 10:39
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-26
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Aroclor-1248	300		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 12:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	66		25 - 126			12/27/21 12:57	12/30/21 12:09	1
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			12/27/21 12:57	12/30/21 12:09	1

Client Sample ID: SB-78-4
Date Collected: 12/21/21 10:40
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-27
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:30	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:30	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:30	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:30	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:30	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:30	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:30	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			12/27/21 12:57	12/30/21 18:30	1
<i>DCB Decachlorobiphenyl (Surr)</i>	114		20 - 155			12/27/21 12:57	12/30/21 18:30	1

Client Sample ID: SB-79-2
Date Collected: 12/21/21 10:45
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-29
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Aroclor-1248	110		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 18:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	77		25 - 126			12/27/21 12:57	12/30/21 18:48	1
<i>DCB Decachlorobiphenyl (Surr)</i>	85		20 - 155			12/27/21 12:57	12/30/21 18:48	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-79-4
Date Collected: 12/21/21 10:45
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-30
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 19:06	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 19:06	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 19:06	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 19:06	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 19:06	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 19:06	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 19:06	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	79		25 - 126			12/27/21 12:57	12/30/21 19:06	1
<i>DCB Decachlorobiphenyl (Surr)</i>	68		20 - 155			12/27/21 12:57	12/30/21 19:06	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-73-3
Date Collected: 12/21/21 09:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	55000		5000	ug/Kg	-	12/27/21 12:57	01/03/22 12:18	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	65		25 - 126			12/27/21 12:57	01/03/22 12:18	100
<i>DCB Decachlorobiphenyl (Surr)</i>	137		20 - 155			12/27/21 12:57	01/03/22 12:18	100

Client Sample ID: SB-74-2
Date Collected: 12/21/21 09:21
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	180000		25000	ug/Kg	-	12/27/21 12:57	01/03/22 12:36	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	104		25 - 126			12/27/21 12:57	01/03/22 12:36	500
<i>DCB Decachlorobiphenyl (Surr)</i>	151		20 - 155			12/27/21 12:57	01/03/22 12:36	500

Client Sample ID: SB-74-4
Date Collected: 12/21/21 09:32
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	35000		5000	ug/Kg	-	12/27/21 12:57	01/03/22 12:54	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	86		25 - 126			12/27/21 12:57	01/03/22 12:54	100
<i>DCB Decachlorobiphenyl (Surr)</i>	117		20 - 155			12/27/21 12:57	01/03/22 12:54	100

Client Sample ID: SB-74-3
Date Collected: 12/21/21 09:30
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	210000		25000	ug/Kg	-	12/27/21 12:57	01/03/22 14:06	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	105		25 - 126			12/27/21 12:57	01/03/22 14:06	500
<i>DCB Decachlorobiphenyl (Surr)</i>	123		20 - 155			12/27/21 12:57	01/03/22 14:06	500

Client Sample ID: SB-75-3
Date Collected: 12/21/21 09:48
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-17
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	100000		50000	ug/Kg	-	12/27/21 12:57	01/03/22 13:30	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			12/27/21 12:57	01/03/22 13:30	1000
<i>DCB Decachlorobiphenyl (Surr)</i>	100		20 - 155			12/27/21 12:57	01/03/22 13:30	1000

Client Sample ID: SB-76-2
Date Collected: 12/21/21 10:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-21
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	12000		2500	ug/Kg	-	12/27/21 12:57	01/03/22 14:24	50

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	92		25 - 126	12/27/21 12:57	01/03/22 14:24	50
DCB Decachlorobiphenyl (Surr)	98		20 - 155	12/27/21 12:57	01/03/22 14:24	50

Client Sample ID: SB-76-3
Date Collected: 12/21/21 10:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	570000		250000	ug/Kg		12/27/21 12:57	01/03/22 14:42	5000
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Tetrachloro-m-xylene (Surr)	93		25 - 126	12/27/21 12:57	01/03/22 14:42	5000		
DCB Decachlorobiphenyl (Surr)	518	S1+	20 - 155	12/27/21 12:57	01/03/22 14:42	5000		

Client Sample ID: SB-76-4
Date Collected: 12/21/21 10:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-23
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	12000		5000	ug/Kg		12/27/21 12:57	01/03/22 15:00	100
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Tetrachloro-m-xylene (Surr)	109		25 - 126	12/27/21 12:57	01/03/22 15:00	100		
DCB Decachlorobiphenyl (Surr)	137		20 - 155	12/27/21 12:57	01/03/22 15:00	100		

Client Sample ID: SB-78-4
Date Collected: 12/21/21 10:40
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-27
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	31000		5000	ug/Kg		12/27/21 12:57	01/03/22 15:17	100
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Tetrachloro-m-xylene (Surr)	81		25 - 126	12/27/21 12:57	01/03/22 15:17	100		
DCB Decachlorobiphenyl (Surr)	148		20 - 155	12/27/21 12:57	01/03/22 15:17	100		

Client Sample ID: SB-79-4
Date Collected: 12/21/21 10:45
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-30
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	24000		5000	ug/Kg		12/27/21 12:57	01/03/22 15:53	100
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Tetrachloro-m-xylene (Surr)	61		25 - 126	12/27/21 12:57	01/03/22 15:53	100		
DCB Decachlorobiphenyl (Surr)	117		20 - 155	12/27/21 12:57	01/03/22 15:53	100		

Surrogate Summary

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-79842-1	SB-70-4	75	108
570-79842-1	SB-70-4	71	87
570-79842-8	SB-73-2	73	86
570-79842-9	SB-73-3	101	110
570-79842-9 - DL	SB-73-3	65	137
570-79842-10	SB-73-4	62	74
570-79842-10	SB-73-4	62	88
570-79842-12	SB-74-2	64	144
570-79842-12 - DL	SB-74-2	104	151
570-79842-13	SB-74-4	59	139
570-79842-13 - DL	SB-74-4	86	117
570-79842-14	SB-74-3	72	112
570-79842-14 - DL	SB-74-3	105	123
570-79842-16	SB-75-2	73	84
570-79842-17	SB-75-3	75	142
570-79842-17 - DL	SB-75-3	71	100
570-79842-18	SB-75-4	58	130
570-79842-21	SB-76-2	68	111
570-79842-21 - DL	SB-76-2	92	98
570-79842-22	SB-76-3	55	108
570-79842-22 - DL	SB-76-3	93	518 S1+
570-79842-23	SB-76-4	74	121
570-79842-23 - DL	SB-76-4	109	137
570-79842-24	SB-77-4	73	88
570-79842-25	SB-78-2	78	91
570-79842-26	SB-78-3	66	76
570-79842-26 MS	SB-78-3	72	84
570-79842-26 MSD	SB-78-3	72	83
570-79842-27	SB-78-4	72	114
570-79842-27 - DL	SB-78-4	81	148
570-79842-29	SB-79-2	77	85
570-79842-30	SB-79-4	79	68
570-79842-30 - DL	SB-79-4	61	117
LCS 570-203853/2-A	Lab Control Sample	86	103
LCSD 570-203853/3-A	Lab Control Sample Dup	86	100
MB 570-203853/1-A	Method Blank	75	90

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-203853/1-A
Matrix: Solid
Analysis Batch: 204671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203853

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1
Aroclor-1248	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 12:57	12/30/21 10:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	75		25 - 126	12/27/21 12:57	12/30/21 10:39	1
DCB Decachlorobiphenyl (Surr)	90		20 - 155	12/27/21 12:57	12/30/21 10:39	1

Lab Sample ID: LCS 570-203853/2-A
Matrix: Solid
Analysis Batch: 204671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203853

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor-1016	100	102.0		ug/Kg		102	50 - 142
Aroclor-1260	100	104.9		ug/Kg		105	50 - 150

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	86		25 - 126
DCB Decachlorobiphenyl (Surr)	103		20 - 155

Lab Sample ID: LCSD 570-203853/3-A
Matrix: Solid
Analysis Batch: 204671

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203853

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Aroclor-1016	100	104.7		ug/Kg		105	50 - 142	3	30
Aroclor-1260	100	104.6		ug/Kg		105	50 - 150	0	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	86		25 - 126
DCB Decachlorobiphenyl (Surr)	100		20 - 155

Lab Sample ID: 570-79842-26 MS
Matrix: Solid
Analysis Batch: 204671

Client Sample ID: SB-78-3
Prep Type: Total/NA
Prep Batch: 203853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	Limits
				Result	Qualifier				
Aroclor-1016	ND		99.4	150.7		ug/Kg		152	20 - 175
Aroclor-1260	ND		99.4	97.88		ug/Kg		98	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-79842-26 MS
Matrix: Solid
Analysis Batch: 204671

Client Sample ID: SB-78-3
Prep Type: Total/NA
Prep Batch: 203853

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	72		25 - 126
DCB Decachlorobiphenyl (Surr)	84		20 - 155

Lab Sample ID: 570-79842-26 MSD
Matrix: Solid
Analysis Batch: 204671

Client Sample ID: SB-78-3
Prep Type: Total/NA
Prep Batch: 203853

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
Aroclor-1016	ND		99.2	152.2		ug/Kg		153	20 - 175	1	40
Aroclor-1260	ND		99.2	100.1		ug/Kg		101	20 - 180	2	40

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	72		25 - 126
DCB Decachlorobiphenyl (Surr)	83		20 - 155



QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

GC Semi VOA

Prep Batch: 203853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-1	SB-70-4	Total/NA	Solid	3546	
570-79842-8	SB-73-2	Total/NA	Solid	3546	
570-79842-9	SB-73-3	Total/NA	Solid	3546	
570-79842-9 - DL	SB-73-3	Total/NA	Solid	3546	
570-79842-10	SB-73-4	Total/NA	Solid	3546	
570-79842-12	SB-74-2	Total/NA	Solid	3546	
570-79842-12 - DL	SB-74-2	Total/NA	Solid	3546	
570-79842-13	SB-74-4	Total/NA	Solid	3546	
570-79842-13 - DL	SB-74-4	Total/NA	Solid	3546	
570-79842-14 - DL	SB-74-3	Total/NA	Solid	3546	
570-79842-14	SB-74-3	Total/NA	Solid	3546	
570-79842-16	SB-75-2	Total/NA	Solid	3546	
570-79842-17	SB-75-3	Total/NA	Solid	3546	
570-79842-17 - DL	SB-75-3	Total/NA	Solid	3546	
570-79842-18	SB-75-4	Total/NA	Solid	3546	
570-79842-21 - DL	SB-76-2	Total/NA	Solid	3546	
570-79842-21	SB-76-2	Total/NA	Solid	3546	
570-79842-22 - DL	SB-76-3	Total/NA	Solid	3546	
570-79842-22	SB-76-3	Total/NA	Solid	3546	
570-79842-23	SB-76-4	Total/NA	Solid	3546	
570-79842-23 - DL	SB-76-4	Total/NA	Solid	3546	
570-79842-24	SB-77-4	Total/NA	Solid	3546	
570-79842-25	SB-78-2	Total/NA	Solid	3546	
570-79842-26	SB-78-3	Total/NA	Solid	3546	
570-79842-27 - DL	SB-78-4	Total/NA	Solid	3546	
570-79842-27	SB-78-4	Total/NA	Solid	3546	
570-79842-29	SB-79-2	Total/NA	Solid	3546	
570-79842-30 - DL	SB-79-4	Total/NA	Solid	3546	
570-79842-30	SB-79-4	Total/NA	Solid	3546	
MB 570-203853/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-203853/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 570-203853/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-79842-26 MS	SB-78-3	Total/NA	Solid	3546	
570-79842-26 MSD	SB-78-3	Total/NA	Solid	3546	

Analysis Batch: 204671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-1	SB-70-4	Total/NA	Solid	8082	203853
570-79842-1	SB-70-4	Total/NA	Solid	8082	203853
570-79842-8	SB-73-2	Total/NA	Solid	8082	203853
570-79842-9	SB-73-3	Total/NA	Solid	8082	203853
570-79842-10	SB-73-4	Total/NA	Solid	8082	203853
570-79842-10	SB-73-4	Total/NA	Solid	8082	203853
570-79842-12	SB-74-2	Total/NA	Solid	8082	203853
570-79842-13	SB-74-4	Total/NA	Solid	8082	203853
570-79842-14	SB-74-3	Total/NA	Solid	8082	203853
570-79842-16	SB-75-2	Total/NA	Solid	8082	203853
570-79842-16	SB-75-2	Total/NA	Solid	8082	203853
570-79842-17	SB-75-3	Total/NA	Solid	8082	203853
570-79842-18	SB-75-4	Total/NA	Solid	8082	203853
570-79842-18	SB-75-4	Total/NA	Solid	8082	203853

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QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

GC Semi VOA (Continued)

Analysis Batch: 204671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-21	SB-76-2	Total/NA	Solid	8082	203853
570-79842-22	SB-76-3	Total/NA	Solid	8082	203853
570-79842-23	SB-76-4	Total/NA	Solid	8082	203853
570-79842-24	SB-77-4	Total/NA	Solid	8082	203853
570-79842-25	SB-78-2	Total/NA	Solid	8082	203853
570-79842-26	SB-78-3	Total/NA	Solid	8082	203853
570-79842-27	SB-78-4	Total/NA	Solid	8082	203853
570-79842-29	SB-79-2	Total/NA	Solid	8082	203853
570-79842-30	SB-79-4	Total/NA	Solid	8082	203853
MB 570-203853/1-A	Method Blank	Total/NA	Solid	8082	203853
LCS 570-203853/2-A	Lab Control Sample	Total/NA	Solid	8082	203853
LCSD 570-203853/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	203853
570-79842-26 MS	SB-78-3	Total/NA	Solid	8082	203853
570-79842-26 MSD	SB-78-3	Total/NA	Solid	8082	203853

Analysis Batch: 204993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-9 - DL	SB-73-3	Total/NA	Solid	8082	203853
570-79842-12 - DL	SB-74-2	Total/NA	Solid	8082	203853
570-79842-13 - DL	SB-74-4	Total/NA	Solid	8082	203853
570-79842-14 - DL	SB-74-3	Total/NA	Solid	8082	203853
570-79842-17 - DL	SB-75-3	Total/NA	Solid	8082	203853
570-79842-21 - DL	SB-76-2	Total/NA	Solid	8082	203853
570-79842-22 - DL	SB-76-3	Total/NA	Solid	8082	203853
570-79842-23 - DL	SB-76-4	Total/NA	Solid	8082	203853
570-79842-27 - DL	SB-78-4	Total/NA	Solid	8082	203853
570-79842-30 - DL	SB-79-4	Total/NA	Solid	8082	203853

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Client Sample ID: SB-70-4

Lab Sample ID: 570-79842-1

Date Collected: 12/21/21 08:00

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.07 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 12:27	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.07 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		10			204671	12/30/21 22:05	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-73-2

Lab Sample ID: 570-79842-8

Date Collected: 12/21/21 09:02

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.04 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 12:45	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-73-3

Lab Sample ID: 570-79842-9

Date Collected: 12/21/21 09:08

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 13:02	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.17 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			204993	01/03/22 12:18	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-73-4

Lab Sample ID: 570-79842-10

Date Collected: 12/21/21 09:09

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 13:20	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.13 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		10			204671	12/30/21 22:41	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Client Sample ID: SB-74-2

Lab Sample ID: 570-79842-12

Date Collected: 12/21/21 09:21

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.19 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 13:38	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.19 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	500			204993	01/03/22 12:36	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-74-4

Lab Sample ID: 570-79842-13

Date Collected: 12/21/21 09:32

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 13:56	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.11 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			204993	01/03/22 12:54	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-74-3

Lab Sample ID: 570-79842-14

Date Collected: 12/21/21 09:30

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 14:14	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.15 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	500			204993	01/03/22 14:06	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-75-2

Lab Sample ID: 570-79842-16

Date Collected: 12/21/21 09:47

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 14:32	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.12 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		10			204671	12/31/21 02:16	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Client Sample ID: SB-75-3

Lab Sample ID: 570-79842-17

Date Collected: 12/21/21 09:48

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 14:50	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.09 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	1000			204993	01/03/22 13:30	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-75-4

Lab Sample ID: 570-79842-18

Date Collected: 12/21/21 09:50

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 15:08	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.14 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		10			204671	12/31/21 03:10	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-76-2

Lab Sample ID: 570-79842-21

Date Collected: 12/21/21 10:08

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.07 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 15:26	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.07 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	50			204993	01/03/22 14:24	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-76-3

Lab Sample ID: 570-79842-22

Date Collected: 12/21/21 10:08

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	204671	12/30/21 15:44	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.18 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	5000			204993	01/03/22 14:42	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Client Sample ID: SB-76-4

Lab Sample ID: 570-79842-23

Date Collected: 12/21/21 10:08

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1	1 mL	1.0 mL	204671	12/30/21 16:02	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.13 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			204993	01/03/22 15:00	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-77-4

Lab Sample ID: 570-79842-24

Date Collected: 12/21/21 10:17

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 17:54	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-78-2

Lab Sample ID: 570-79842-25

Date Collected: 12/21/21 10:38

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 18:12	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-78-3

Lab Sample ID: 570-79842-26

Date Collected: 12/21/21 10:39

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 12:09	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-78-4

Lab Sample ID: 570-79842-27

Date Collected: 12/21/21 10:40

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 18:30	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.17 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			204993	01/03/22 15:17	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Client Sample ID: SB-79-2

Lab Sample ID: 570-79842-29

Date Collected: 12/21/21 10:45

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 18:48	UHNN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-79-4

Lab Sample ID: 570-79842-30

Date Collected: 12/21/21 10:45

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.07 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082		1			204671	12/30/21 19:06	UHNN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.07 g	10 mL	203853	12/27/21 12:57	USUL	ECL 1
Total/NA	Analysis	8082	DL	100			204993	01/03/22 15:53	UHNN	ECL 1
Instrument ID: GC58										

Laboratory References:

ECL 1 = Eurofins Southwest, Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Laboratory: Eurofins Southwest, Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Southwest, Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-79842-1	SB-70-4	Solid	12/21/21 08:00	12/21/21 14:42
570-79842-8	SB-73-2	Solid	12/21/21 09:02	12/21/21 14:42
570-79842-9	SB-73-3	Solid	12/21/21 09:08	12/21/21 14:42
570-79842-10	SB-73-4	Solid	12/21/21 09:09	12/21/21 14:42
570-79842-12	SB-74-2	Solid	12/21/21 09:21	12/21/21 14:42
570-79842-13	SB-74-4	Solid	12/21/21 09:32	12/21/21 14:42
570-79842-14	SB-74-3	Solid	12/21/21 09:30	12/21/21 14:42
570-79842-16	SB-75-2	Solid	12/21/21 09:47	12/21/21 14:42
570-79842-17	SB-75-3	Solid	12/21/21 09:48	12/21/21 14:42
570-79842-18	SB-75-4	Solid	12/21/21 09:50	12/21/21 14:42
570-79842-21	SB-76-2	Solid	12/21/21 10:08	12/21/21 14:42
570-79842-22	SB-76-3	Solid	12/21/21 10:08	12/21/21 14:42
570-79842-23	SB-76-4	Solid	12/21/21 10:08	12/21/21 14:42
570-79842-24	SB-77-4	Solid	12/21/21 10:17	12/21/21 14:42
570-79842-25	SB-78-2	Solid	12/21/21 10:38	12/21/21 14:42
570-79842-26	SB-78-3	Solid	12/21/21 10:39	12/21/21 14:42
570-79842-27	SB-78-4	Solid	12/21/21 10:40	12/21/21 14:42
570-79842-29	SB-79-2	Solid	12/21/21 10:45	12/21/21 14:42
570-79842-30	SB-79-4	Solid	12/21/21 10:45	12/21/21 14:42

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79842



Calscience



570-79842 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 12/21/21

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LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: SC1123/13	P.O. NO: 100030960
ADDRESS: 16644 West Bernardo Drive		PROJECT CONTACT: Brian Rockwell	SAMPLER(S): (PRINT) Emily Imperato
CITY: San Diego	STATE: Ca	ZIP: 92127	

TEL: **(619) 309-9549** E-MAIL: **B.Rockwell@geosyntec.com**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID: _____ ECI PROJECT NO: _____ LOG CODE: _____

SPECIAL INSTRUCTIONS

UNPRESERVED PRESERVED FIELD FILTERED

TPH(9) GRO TPH(8) DRO TPH C6-C36 C6-C44 BTEX / MTBE 8260 VOCs (8260) Oxygenates (8260) Prep (5035) En Core Terra Core SVOCs (8270) Pesticides (8081) PCBs (8082) PAHs 8270 8270 SIM T22 Metals 6010/747X 6020/747X Cr(VI) 7196 7199 218 6 **HOLD**

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	TPH(9) <input type="checkbox"/> GRO <input type="checkbox"/>	TPH(8) <input type="checkbox"/> DRO <input type="checkbox"/>	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44 <input type="checkbox"/>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260) <input type="checkbox"/>	Oxygenates (8260) <input type="checkbox"/>	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core <input type="checkbox"/>	SVOCs (8270) <input type="checkbox"/>	Pesticides (8081) <input type="checkbox"/>	PCBs (8082) <input type="checkbox"/>	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM <input type="checkbox"/>	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X <input type="checkbox"/>	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6 <input type="checkbox"/>	HOLD		
		DATE	TIME																					
	1 SB-70-4	12/21/21	0800	S011	1	X																		
	2 SB-71-2		0829																					X
	3 SB-71-4		0832																					X
	4 SB-71-6		0835																					X
	5 SB-72-2		0842																					X
	6 SB-72-4		0843																					X
	7 SB-72-6		0846																					X
	8 SB-73 E1 SB-73-2		0902																X					X E1
	9 SB-73-3		0908																X					X E1
	10 SB-73-4		0909																X					X E1

Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature/Affiliation): <i>[Signature] ECI</i>	Date: 12/21/21	Time: 1442
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:

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1/3/2022



Calscience

CHAIN OF CUSTODY RECORD

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DATE: 12/21/21
PAGE 3 OF 5

79842

LABORATORY CLIENT: Geosyntec Consultants
ADDRESS: 16644 West Bernardo Drive
CITY: San Diego STATE: Ca ZIP: 92127

TEL: (619) 309-9549 EMAIL: Brockwell@geosyntec.com
TURNAROUND TIME (Rush surcharges may apply to any "AT not STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID ECI PROJECT NO LOG CODE
SPECIAL INSTRUCTIONS

CLIENT PROJECT NAME / NUMBER: SC1123 / 13
PROJECT CONTACT: Brian Rockwell
REQUESTED ANALYSES:
Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	TPH		VOCs (8260)		SVOCs (8270)		Pesticides (8081)		PCBs (8082)		PAHs		T22 Metals		Cr(VI)		
		DATE	TIME						TPH (g)	TPH (d)	TPH	BTEX / MTBE	Oxygenates	Prep	SVOCs	Pesticides	PCBs	PAHs	T22 Metals	Cr(VI)					
	21 SB-7G-2	12/21/21	1008	2011	2	X			<input type="checkbox"/>																
	22 SB-7G-3		1008		1				<input type="checkbox"/>																
	23 SB-7G-4		1008		1				<input type="checkbox"/>																
	24 SB-77-4		1017		1				<input type="checkbox"/>																
	25 SB-78-2		1038		1				<input type="checkbox"/>																
	26 SB-78-3		1039		1				<input type="checkbox"/>																
	27 SB-78-4		1040		1				<input type="checkbox"/>																
	28 SB-78-6		1040		1				<input type="checkbox"/>																
	29 SB-79-2		1045		1				<input type="checkbox"/>																
	30 SB-79-4		1045		1				<input type="checkbox"/>																

Retinquished by (Signature): *Cody Kelly* Received by (Signature/Affiliation): *ECI* Date: 12/21/21 Time: 1442

Retinquished by (Signature): _____ Received by (Signature/Affiliation): _____ Date: _____ Time: _____

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



Calscience

CHAIN OF CUSTODY RECORD

DATE: 12/21/21

PAGE 5 OF 5

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LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: SC1123/13	PO NO: 100030960
ADDRESS: 16644 West Bernardo Drive		PROJECT CONTACT: Brian Rockwell	SAMPLER(S): (PRINT) Emily Imperato
CITY: San Diego	STATE: Ca ZIP: 92127		
TEL: (619) 309-9549	E-MAIL: BRockwell@geosyntec.com		

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

SAME DAY
 24 HR
 48 HR
 72 HR
 5 DAYS
 STANDARD

COELT EDF
 GLOBAL ID: _____
 ECI PROJECT NO: _____
 LOG CODE: _____

SPECIAL INSTRUCTIONS

Please check box or fill in blank as needed

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD
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LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filled
		DATE	TIME					
41	SB-83-2	12/21/21	1216	Soil	1	X		
42	SB-83-4		1216					
43	SB-83-6		1217					
44	SB-84-2		1235					
45	SB-84-4		1235					
46	SB-84-6		1236					

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] ECI</i>	Date: 12/21/21	Time: 1442
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-79842-1

Login Number: 79842

List Number: 1

Creator: Patel, Jayesh

List Source: Eurofins Southwest, Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Southwest, Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-79982-1
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Brian Rockwell



Authorized for release by:
1/3/2022 5:11:07 PM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Job ID: 570-79982-1

Laboratory: Eurofins Southwest, Calscience

Narrative

Job Narrative 570-79982-1

Comments

No additional comments.

Receipt

The sample was received on 12/22/2021 10:45 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-203722 and analytical batch 570-203703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010B: The absolute response for Selenium was greater than the method reporting limit (RL) in the following sample: IDW-Soil-12222021 (570-79982-1).

The instrument raw data has been manually reviewed and the result can be reported as ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: IDW-Soil-12222021 (570-79982-1). The reagent lot number used was: 2061690

8081/8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Client Sample ID: IDW-Soil-1222021

Lab Sample ID: 570-79982-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		20	ug/Kg	1		8260B	Total/NA
Toluene	1.4		1.0	ug/Kg	1		8260B	Total/NA
C19-C20	6.0		5.1	mg/Kg	1		8015B	Total/NA
C21-C22	7.7		5.1	mg/Kg	1		8015B	Total/NA
C23-C24	8.6		5.1	mg/Kg	1		8015B	Total/NA
C25-C28	15		5.1	mg/Kg	1		8015B	Total/NA
C29-C32	10		5.1	mg/Kg	1		8015B	Total/NA
C33-C36	5.9		5.1	mg/Kg	1		8015B	Total/NA
C6-C44	69		5.1	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	50		5.1	mg/Kg	1		8015B	Total/NA
Aroclor-1248 - DL	2000		500	ug/Kg	10		8082	Total/NA
Arsenic	7.85		2.54	mg/Kg	1		6010B	Total/NA
Barium	135		0.508	mg/Kg	1		6010B	Total/NA
Beryllium	0.857		0.254	mg/Kg	1		6010B	Total/NA
Cadmium	1.43		0.508	mg/Kg	1		6010B	Total/NA
Chromium	17.3		1.02	mg/Kg	1		6010B	Total/NA
Cobalt	13.5		1.02	mg/Kg	1		6010B	Total/NA
Copper	17.1		1.02	mg/Kg	1		6010B	Total/NA
Lead	14.1		5.08	mg/Kg	1		6010B	Total/NA
Molybdenum	0.919		0.508	mg/Kg	1		6010B	Total/NA
Nickel	16.7		0.508	mg/Kg	1		6010B	Total/NA
Vanadium	38.0		1.02	mg/Kg	1		6010B	Total/NA
Zinc	65.5		10.2	mg/Kg	1		6010B	Total/NA
Mercury	0.0888		0.0794	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Southwest, Calscience

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: IDW-Soil-1222021

Date Collected: 12/22/21 09:36

Date Received: 12/22/21 10:45

Lab Sample ID: 570-79982-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,1,1-Trichloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,1,2-Trichloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,1-Dichloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,1-Dichloroethene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,1-Dichloropropene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2,3-Trichlorobenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2,3-Trichloropropane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2,4-Trichlorobenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2,4-Trimethylbenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2-Dibromoethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2-Dichlorobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2-Dichloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,2-Dichloropropane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,3,5-Trimethylbenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,3-Dichlorobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,3-Dichloropropane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
1,4-Dichlorobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
2,2-Dichloropropane	ND		5.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
2-Butanone	ND		20	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
2-Chlorotoluene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
2-Hexanone	ND		20	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
4-Chlorotoluene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
4-Methyl-2-pentanone	ND		20	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Acetone	110		20	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Benzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Bromobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Bromochloromethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Bromodichloromethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Bromoform	ND		5.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Bromomethane	ND		20	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
cis-1,2-Dichloroethene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
cis-1,3-Dichloropropane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Carbon disulfide	ND		10	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Carbon tetrachloride	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Chlorobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Chloroethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Chloroform	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Chloromethane	ND		20	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Dibromochloromethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Dibromomethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Dichlorodifluoromethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Di-isopropyl ether (DIPE)	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Ethanol	ND		250	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Ethylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Ethyl-t-butyl ether (ETBE)	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1

Eurofins Southwest, Calscience

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: IDW-Soil-1222021

Date Collected: 12/22/21 09:36

Date Received: 12/22/21 10:45

Lab Sample ID: 570-79982-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Methylene Chloride	ND		10	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Naphthalene	ND		10	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
n-Butylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
N-Propylbenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
o-Xylene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
m,p-Xylene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
p-Isopropyltoluene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
sec-Butylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Styrene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
trans-1,2-Dichloroethene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
trans-1,3-Dichloropropene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Tert-amyl-methyl ether (TAME)	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
tert-Butyl alcohol (TBA)	ND		20	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
tert-Butylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Tetrachloroethene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Toluene	1.4		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Trichloroethene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Trichlorofluoromethane	ND		10	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Vinyl acetate	ND		10	ug/Kg		12/27/21 09:19	12/27/21 18:08	1
Vinyl chloride	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		64 - 141	12/27/21 09:19	12/27/21 18:08	1
4-Bromofluorobenzene (Surr)	97		76 - 120	12/27/21 09:19	12/27/21 18:08	1
Dibromofluoromethane (Surr)	91		47 - 142	12/27/21 09:19	12/27/21 18:08	1
Toluene-d8 (Surr)	98		80 - 120	12/27/21 09:19	12/27/21 18:08	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: IDW-Soil-1222021

Date Collected: 12/22/21 09:36

Date Received: 12/22/21 10:45

Lab Sample ID: 570-79982-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C7 as C7	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C8 as C8	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C9-C10	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C11-C12	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C13-C14	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C15-C16	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C17-C18	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C19-C20	6.0		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C21-C22	7.7		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C23-C24	8.6		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C25-C28	15		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C29-C32	10		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C33-C36	5.9		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C37-C40	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C41-C44	ND		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
C6-C44	69		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
Diesel Range Organics [C10-C28]	50		5.1	mg/Kg		12/28/21 13:40	12/29/21 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n-Octacosane (Surr)</i>	100		60 - 138			12/28/21 13:40	12/29/21 14:02	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: IDW-Soil-1222021

Date Collected: 12/22/21 09:36

Date Received: 12/22/21 10:45

Lab Sample ID: 570-79982-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 11:44	12/28/21 14:54	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 11:44	12/28/21 14:54	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 11:44	12/28/21 14:54	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 11:44	12/28/21 14:54	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 11:44	12/28/21 14:54	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 11:44	12/28/21 14:54	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 11:44	12/28/21 14:54	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 11:44	12/28/21 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	56		25 - 126			12/27/21 11:44	12/28/21 14:54	1
<i>DCB Decachlorobiphenyl (Surr)</i>	52		20 - 155			12/27/21 11:44	12/28/21 14:54	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: IDW-Soil-12222021

Lab Sample ID: 570-79982-1

Date Collected: 12/22/21 09:36

Matrix: Solid

Date Received: 12/22/21 10:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	2000		500	ug/Kg		12/27/21 11:44	12/28/21 20:35	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	61		25 - 126			12/27/21 11:44	12/28/21 20:35	10
<i>DCB Decachlorobiphenyl (Surr)</i>	95		20 - 155			12/27/21 11:44	12/28/21 20:35	10



Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 6010B - Metals (ICP)

Client Sample ID: IDW-Soil-1222021

Lab Sample ID: 570-79982-1

Date Collected: 12/22/21 09:36

Matrix: Solid

Date Received: 12/22/21 10:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.05	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Arsenic	7.85		2.54	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Barium	135		0.508	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Beryllium	0.857		0.254	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Cadmium	1.43		0.508	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Chromium	17.3		1.02	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Cobalt	13.5		1.02	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Copper	17.1		1.02	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Lead	14.1		5.08	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Molybdenum	0.919		0.508	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Nickel	16.7		0.508	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Selenium	ND	L	5.08	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Silver	ND		1.02	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Thallium	ND		5.08	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Vanadium	38.0		1.02	mg/Kg		12/30/21 09:09	12/30/21 21:30	1
Zinc	65.5		10.2	mg/Kg		12/30/21 09:09	12/30/21 21:30	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: IDW-Soil-12222021

Date Collected: 12/22/21 09:36

Date Received: 12/22/21 10:45

Lab Sample ID: 570-79982-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0888		0.0794	mg/Kg		12/29/21 15:35	12/30/21 13:27	1

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Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-141)	BFB (76-120)	DBFM (47-142)	TOL (80-120)
570-79982-1	IDW-Soil-12222021	93	97	91	98
570-80018-B-1-B MS	Matrix Spike	94	98	100	100
570-80018-B-1-C MSD	Matrix Spike Duplicate	92	99	98	100
LCS 570-203722/1-A	Lab Control Sample	90	98	99	101
LCSD 570-203722/2-A	Lab Control Sample Dup	90	99	99	102
MB 570-203722/3-A	Method Blank	98	95	96	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1 (60-138)
440-293482-A-1-A MS	Matrix Spike	100
440-293482-A-1-B MSD	Matrix Spike Duplicate	102
570-79982-1	IDW-Soil-12222021	100
LCS 570-204099/2-A	Lab Control Sample	103
LCSD 570-204099/3-A	Lab Control Sample Dup	102
MB 570-204099/1-A	Method Blank	97

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-79982-1	IDW-Soil-12222021	56	52
570-79982-1 - DL	IDW-Soil-12222021	61	95
LCS 570-203816/6-A	Lab Control Sample	86	100
LCSD 570-203816/7-A	Lab Control Sample Dup	86	100
MB 570-203816/1-A	Method Blank	81	96

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-203722/3-A
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203722

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,1,1-Trichloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,1,2-Trichloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,1-Dichloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,1-Dichloroethene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,1-Dichloropropene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2,3-Trichlorobenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2,3-Trichloropropane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2,4-Trichlorobenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2,4-Trimethylbenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2-Dibromoethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2-Dichlorobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2-Dichloroethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,2-Dichloropropane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,3,5-Trimethylbenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,3-Dichlorobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,3-Dichloropropane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
1,4-Dichlorobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
2,2-Dichloropropane	ND		5.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
2-Butanone	ND		20	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
2-Chlorotoluene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
2-Hexanone	ND		20	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
4-Chlorotoluene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
4-Methyl-2-pentanone	ND		20	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Acetone	ND		20	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Benzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Bromobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Bromochloromethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Bromodichloromethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Bromoform	ND		5.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Bromomethane	ND		20	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
cis-1,2-Dichloroethene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
cis-1,3-Dichloropropene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Carbon disulfide	ND		10	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Carbon tetrachloride	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Chlorobenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Chloroethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Chloroform	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Chloromethane	ND		20	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Dibromochloromethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Dibromomethane	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Dichlorodifluoromethane	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Di-isopropyl ether (DIPE)	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Ethanol	ND		250	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Ethylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1

Eurofins Southwest, Calscience

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-203722/3-A
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203722

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Isopropylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Methylene Chloride	ND		10	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Naphthalene	ND		10	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
n-Butylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
N-Propylbenzene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
o-Xylene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
m,p-Xylene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
p-Isopropyltoluene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
sec-Butylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Styrene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
trans-1,2-Dichloroethene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
trans-1,3-Dichloropropene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Tert-amyl-methyl ether (TAME)	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
tert-Butyl alcohol (TBA)	ND		20	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
tert-Butylbenzene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Tetrachloroethene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Toluene	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Trichloroethene	ND		2.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Trichlorofluoromethane	ND		10	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Vinyl acetate	ND		10	ug/Kg		12/27/21 09:19	12/27/21 10:41	1
Vinyl chloride	ND		1.0	ug/Kg		12/27/21 09:19	12/27/21 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 141	12/27/21 09:19	12/27/21 10:41	1
4-Bromofluorobenzene (Surr)	95		76 - 120	12/27/21 09:19	12/27/21 10:41	1
Dibromofluoromethane (Surr)	96		47 - 142	12/27/21 09:19	12/27/21 10:41	1
Toluene-d8 (Surr)	98		80 - 120	12/27/21 09:19	12/27/21 10:41	1

Lab Sample ID: LCS 570-203722/1-A
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	49.9	49.75		ug/Kg		100	80 - 124
1,1,1-Trichloroethane	49.9	47.31		ug/Kg		95	73 - 121
1,1,1,2,2-Tetrachloroethane	49.9	47.78		ug/Kg		96	76 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	49.9	47.28		ug/Kg		95	64 - 120
1,1,2-Trichloroethane	49.9	46.98		ug/Kg		94	80 - 120
1,1-Dichloroethane	49.9	48.46		ug/Kg		97	71 - 120
1,1-Dichloroethene	49.9	46.07		ug/Kg		92	68 - 120
1,1-Dichloropropene	49.9	47.03		ug/Kg		94	74 - 122
1,2,3-Trichlorobenzene	49.9	51.60		ug/Kg		103	80 - 128
1,2,3-Trichloropropane	49.9	47.99		ug/Kg		96	74 - 122
1,2,4-Trichlorobenzene	49.9	53.78		ug/Kg		108	80 - 132
1,2,4-Trimethylbenzene	49.9	52.33		ug/Kg		105	80 - 120
1,2-Dibromo-3-Chloropropane	49.9	47.35		ug/Kg		95	65 - 120

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-203722/1-A
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	49.9	48.12		ug/Kg		96	80 - 120
1,2-Dichlorobenzene	49.9	49.76		ug/Kg		100	80 - 120
1,2-Dichloroethane	49.9	42.50		ug/Kg		85	76 - 126
1,2-Dichloropropane	49.9	49.33		ug/Kg		99	80 - 120
1,3,5-Trimethylbenzene	49.9	50.66		ug/Kg		102	78 - 124
1,3-Dichlorobenzene	49.9	50.46		ug/Kg		101	80 - 120
1,3-Dichloropropane	49.9	47.03		ug/Kg		94	80 - 120
1,4-Dichlorobenzene	49.9	48.35		ug/Kg		97	80 - 120
2,2-Dichloropropane	49.9	55.33		ug/Kg		111	68 - 129
2-Butanone	49.9	41.19		ug/Kg		83	63 - 129
2-Chlorotoluene	49.9	48.73		ug/Kg		98	77 - 122
2-Hexanone	49.9	47.84		ug/Kg		96	67 - 130
4-Chlorotoluene	49.9	49.61		ug/Kg		99	80 - 120
4-Methyl-2-pentanone	49.9	44.54		ug/Kg		89	73 - 122
Acetone	49.9	46.58		ug/Kg		93	62 - 123
Benzene	49.9	46.93		ug/Kg		94	76 - 120
Bromobenzene	49.9	49.09		ug/Kg		98	80 - 124
Bromochloromethane	49.9	47.03		ug/Kg		94	77 - 120
Bromodichloromethane	49.9	49.68		ug/Kg		100	80 - 127
Bromoform	49.9	50.92		ug/Kg		102	69 - 131
Bromomethane	49.9	43.47		ug/Kg		87	39 - 143
cis-1,2-Dichloroethene	49.9	49.60		ug/Kg		99	77 - 121
cis-1,3-Dichloropropene	49.9	52.12		ug/Kg		104	80 - 121
Carbon disulfide	49.9	49.71		ug/Kg		100	59 - 128
Carbon tetrachloride	49.9	47.98		ug/Kg		96	68 - 132
Chlorobenzene	49.9	47.52		ug/Kg		95	80 - 120
Chloroethane	49.9	47.08		ug/Kg		94	59 - 135
Chloroform	49.9	47.34		ug/Kg		95	77 - 121
Chloromethane	49.9	41.97		ug/Kg		84	51 - 129
Dibromochloromethane	49.9	48.79		ug/Kg		98	77 - 127
Dibromomethane	49.9	47.50		ug/Kg		95	80 - 124
Dichlorodifluoromethane	49.9	50.92		ug/Kg		102	53 - 133
Di-isopropyl ether (DIPE)	49.9	48.96		ug/Kg		98	69 - 123
Ethanol	499	497.3		ug/Kg		100	46 - 152
Ethylbenzene	49.9	48.98		ug/Kg		98	80 - 120
Ethyl-t-butyl ether (ETBE)	49.9	52.30		ug/Kg		105	69 - 121
Isopropylbenzene	49.9	51.60		ug/Kg		103	80 - 123
Methylene Chloride	49.9	46.39		ug/Kg		93	70 - 120
Methyl-t-Butyl Ether (MTBE)	49.9	49.79		ug/Kg		100	70 - 120
Naphthalene	49.9	45.93		ug/Kg		92	76 - 121
n-Butylbenzene	49.9	48.99		ug/Kg		98	78 - 123
N-Propylbenzene	49.9	50.05		ug/Kg		100	78 - 123
o-Xylene	49.9	51.63		ug/Kg		103	76 - 125
m,p-Xylene	99.8	99.40		ug/Kg		100	75 - 122
p-Isopropyltoluene	49.9	49.53		ug/Kg		99	80 - 121
sec-Butylbenzene	49.9	52.11		ug/Kg		104	80 - 120
Styrene	49.9	51.38		ug/Kg		103	79 - 123
trans-1,2-Dichloroethene	49.9	48.25		ug/Kg		97	71 - 120
trans-1,3-Dichloropropene	49.9	52.24		ug/Kg		105	80 - 126

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-203722/1-A
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-amyl-methyl ether (TAME)	49.9	51.72		ug/Kg		104	77 - 124
tert-Butyl alcohol (TBA)	250	233.7		ug/Kg		94	71 - 131
tert-Butylbenzene	49.9	52.77		ug/Kg		106	80 - 120
Tetrachloroethene	49.9	48.87		ug/Kg		98	80 - 123
Toluene	49.9	47.25		ug/Kg		95	79 - 120
Trichloroethene	49.9	48.00		ug/Kg		96	80 - 120
Trichlorofluoromethane	49.9	51.26		ug/Kg		103	69 - 133
Vinyl acetate	49.9	47.91		ug/Kg		96	78 - 138
Vinyl chloride	49.9	53.59		ug/Kg		107	65 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		64 - 141
4-Bromofluorobenzene (Surr)	98		76 - 120
Dibromofluoromethane (Surr)	99		47 - 142
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 570-203722/2-A
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	49.9	50.12		ug/Kg		100	80 - 124	1	20
1,1,1-Trichloroethane	49.9	47.22		ug/Kg		95	73 - 121	0	20
1,1,2,2-Tetrachloroethane	49.9	48.68		ug/Kg		98	76 - 123	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	49.9	47.44		ug/Kg		95	64 - 120	0	20
1,1,2-Trichloroethane	49.9	47.64		ug/Kg		95	80 - 120	1	20
1,1-Dichloroethane	49.9	48.93		ug/Kg		98	71 - 120	1	20
1,1-Dichloroethene	49.9	46.54		ug/Kg		93	68 - 120	1	20
1,1-Dichloropropene	49.9	47.51		ug/Kg		95	74 - 122	1	20
1,2,3-Trichlorobenzene	49.9	51.34		ug/Kg		103	80 - 128	1	20
1,2,3-Trichloropropane	49.9	48.61		ug/Kg		97	74 - 122	1	20
1,2,4-Trichlorobenzene	49.9	53.43		ug/Kg		107	80 - 132	1	20
1,2,4-Trimethylbenzene	49.9	52.73		ug/Kg		106	80 - 120	1	20
1,2-Dibromo-3-Chloropropane	49.9	48.10		ug/Kg		96	65 - 120	2	20
1,2-Dibromoethane	49.9	49.14		ug/Kg		98	80 - 120	2	20
1,2-Dichlorobenzene	49.9	49.99		ug/Kg		100	80 - 120	0	20
1,2-Dichloroethane	49.9	42.98		ug/Kg		86	76 - 126	1	20
1,2-Dichloropropane	49.9	49.93		ug/Kg		100	80 - 120	1	20
1,3,5-Trimethylbenzene	49.9	51.18		ug/Kg		103	78 - 124	1	20
1,3-Dichlorobenzene	49.9	50.55		ug/Kg		101	80 - 120	0	20
1,3-Dichloropropane	49.9	47.78		ug/Kg		96	80 - 120	2	20
1,4-Dichlorobenzene	49.9	48.78		ug/Kg		98	80 - 120	1	20
2,2-Dichloropropane	49.9	55.85		ug/Kg		112	68 - 129	1	20
2-Butanone	49.9	41.60		ug/Kg		83	63 - 129	1	20
2-Chlorotoluene	49.9	49.12		ug/Kg		98	77 - 122	1	20
2-Hexanone	49.9	48.56		ug/Kg		97	67 - 130	1	20
4-Chlorotoluene	49.9	49.77		ug/Kg		100	80 - 120	0	20
4-Methyl-2-pentanone	49.9	45.79		ug/Kg		92	73 - 122	3	20

Eurofins Southwest, Calscience

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-203722/2-A
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203722

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	49.9	47.55		ug/Kg		95	62 - 123	2	20
Benzene	49.9	47.23		ug/Kg		95	76 - 120	1	20
Bromobenzene	49.9	49.63		ug/Kg		99	80 - 124	1	20
Bromochloromethane	49.9	47.69		ug/Kg		96	77 - 120	1	20
Bromodichloromethane	49.9	50.00		ug/Kg		100	80 - 127	1	20
Bromoform	49.9	52.03		ug/Kg		104	69 - 131	2	20
Bromomethane	49.9	43.36		ug/Kg		87	39 - 143	0	20
cis-1,2-Dichloroethene	49.9	49.91		ug/Kg		100	77 - 121	1	20
cis-1,3-Dichloropropene	49.9	52.40		ug/Kg		105	80 - 121	1	20
Carbon disulfide	49.9	49.82		ug/Kg		100	59 - 128	0	20
Carbon tetrachloride	49.9	48.42		ug/Kg		97	68 - 132	1	20
Chlorobenzene	49.9	48.03		ug/Kg		96	80 - 120	1	20
Chloroethane	49.9	48.10		ug/Kg		96	59 - 135	2	20
Chloroform	49.9	47.98		ug/Kg		96	77 - 121	1	20
Chloromethane	49.9	44.53		ug/Kg		89	51 - 129	6	20
Dibromochloromethane	49.9	49.37		ug/Kg		99	77 - 127	1	20
Dibromomethane	49.9	48.21		ug/Kg		97	80 - 124	1	20
Dichlorodifluoromethane	49.9	51.20		ug/Kg		103	53 - 133	1	20
Di-isopropyl ether (DIPE)	49.9	49.41		ug/Kg		99	69 - 123	1	20
Ethanol	499	451.0		ug/Kg		90	46 - 152	10	30
Ethylbenzene	49.9	49.43		ug/Kg		99	80 - 120	1	20
Ethyl-t-butyl ether (ETBE)	49.9	53.11		ug/Kg		106	69 - 121	2	20
Isopropylbenzene	49.9	51.86		ug/Kg		104	80 - 123	0	20
Methylene Chloride	49.9	47.06		ug/Kg		94	70 - 120	1	20
Methyl-t-Butyl Ether (MTBE)	49.9	50.39		ug/Kg		101	70 - 120	1	20
Naphthalene	49.9	46.45		ug/Kg		93	76 - 121	1	20
n-Butylbenzene	49.9	49.19		ug/Kg		99	78 - 123	0	20
N-Propylbenzene	49.9	50.28		ug/Kg		101	78 - 123	0	20
o-Xylene	49.9	52.22		ug/Kg		105	76 - 125	1	20
m,p-Xylene	99.8	100.0		ug/Kg		100	75 - 122	1	20
p-Isopropyltoluene	49.9	49.64		ug/Kg		99	80 - 121	0	20
sec-Butylbenzene	49.9	52.69		ug/Kg		106	80 - 120	1	20
Styrene	49.9	51.77		ug/Kg		104	79 - 123	1	20
trans-1,2-Dichloroethene	49.9	48.58		ug/Kg		97	71 - 120	1	20
trans-1,3-Dichloropropene	49.9	53.36		ug/Kg		107	80 - 126	2	20
Tert-amyl-methyl ether (TAME)	49.9	52.42		ug/Kg		105	77 - 124	1	20
tert-Butyl alcohol (TBA)	250	242.0		ug/Kg		97	71 - 131	3	22
tert-Butylbenzene	49.9	53.65		ug/Kg		108	80 - 120	2	20
Tetrachloroethene	49.9	49.52		ug/Kg		99	80 - 123	1	20
Toluene	49.9	47.71		ug/Kg		96	79 - 120	1	20
Trichloroethene	49.9	48.52		ug/Kg		97	80 - 120	1	20
Trichlorofluoromethane	49.9	51.18		ug/Kg		103	69 - 133	0	20
Vinyl acetate	49.9	48.08		ug/Kg		96	78 - 138	0	20
Vinyl chloride	49.9	53.11		ug/Kg		106	65 - 129	1	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		64 - 141
4-Bromofluorobenzene (Surr)	99		76 - 120

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-203722/2-A
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203722

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		47 - 142
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 570-80018-B-1-B MS
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND	F1	48.4	30.23		ug/Kg		62	61 - 129
1,1,1-Trichloroethane	ND	F1	48.4	35.82		ug/Kg		74	67 - 125
1,1,2,2-Tetrachloroethane	ND		48.4	27.71		ug/Kg		57	20 - 164
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	48.4	34.38		ug/Kg		71	62 - 125
1,1,2-Trichloroethane	ND		48.4	33.96		ug/Kg		70	52 - 134
1,1-Dichloroethane	ND		48.4	38.87		ug/Kg		80	66 - 125
1,1-Dichloroethene	ND		48.4	38.06		ug/Kg		79	60 - 125
1,1-Dichloropropene	ND	F1	48.4	34.78		ug/Kg		72	69 - 125
1,2,3-Trichlorobenzene	ND		48.4	13.51		ug/Kg		28	20 - 145
1,2,3-Trichloropropane	ND	F1	48.4	27.68		ug/Kg		57	53 - 128
1,2,4-Trichlorobenzene	ND		48.4	18.69		ug/Kg		39	20 - 146
1,2,4-Trimethylbenzene	ND	F2 F1	48.4	17.71	F1	ug/Kg		37	51 - 129
1,2-Dibromo-3-Chloropropane	ND		48.4	26.56		ug/Kg		55	33 - 126
1,2-Dibromoethane	ND	F1	48.4	32.19		ug/Kg		66	65 - 125
1,2-Dichlorobenzene	ND	F2 F1	48.4	13.42	F1	ug/Kg		28	47 - 130
1,2-Dichloroethane	ND	F1	48.4	31.57	F1	ug/Kg		65	66 - 127
1,2-Dichloropropane	ND	F1	48.4	37.07		ug/Kg		77	70 - 125
1,3,5-Trimethylbenzene	ND	F1	48.4	24.92		ug/Kg		50	50 - 132
1,3-Dichlorobenzene	ND	F1	48.4	22.04	F1	ug/Kg		45	48 - 128
1,3-Dichloropropane	ND	F1	48.4	32.67		ug/Kg		67	66 - 125
1,4-Dichlorobenzene	ND	F1	48.4	20.96	F1	ug/Kg		43	47 - 127
2,2-Dichloropropane	ND		48.4	40.76		ug/Kg		84	61 - 128
2-Butanone	ND		48.4	28.61		ug/Kg		59	48 - 134
2-Chlorotoluene	ND	F2 F1	48.4	16.76	F1	ug/Kg		35	54 - 127
2-Hexanone	ND		48.4	23.80		ug/Kg		49	48 - 136
4-Chlorotoluene	ND	F1	48.4	19.74	F1	ug/Kg		41	54 - 125
4-Methyl-2-pentanone	ND		48.4	32.19		ug/Kg		66	55 - 133
Acetone	ND		48.4	73.42		ug/Kg		152	30 - 175
Benzene	ND	F1	48.4	31.79	F1	ug/Kg		66	70 - 125
Bromobenzene	ND	F1	48.4	22.93	F1	ug/Kg		47	57 - 129
Bromochloromethane	ND	F1	48.4	35.34		ug/Kg		73	67 - 125
Bromodichloromethane	ND	F1	48.4	34.02		ug/Kg		70	64 - 130
Bromoform	ND		48.4	28.23		ug/Kg		58	49 - 133
Bromomethane	ND		48.4	39.42		ug/Kg		81	30 - 149
cis-1,2-Dichloroethene	ND	F1	48.4	37.87		ug/Kg		78	71 - 125
cis-1,3-Dichloropropane	ND		48.4	34.28		ug/Kg		71	63 - 126
Carbon disulfide	ND		48.4	35.64		ug/Kg		73	53 - 125
Carbon tetrachloride	ND	F1	48.4	33.64		ug/Kg		69	60 - 130
Chlorobenzene	ND	F1	48.4	27.47	F1	ug/Kg		57	65 - 125
Chloroethane	ND		48.4	40.47		ug/Kg		84	51 - 131

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-80018-B-1-B MS
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203722

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Chloroform	ND	F1	48.4	36.89		ug/Kg		76	70 - 125	
Chloromethane	ND		48.4	33.99		ug/Kg		70	43 - 125	
Dibromochloromethane	ND	F1	48.4	29.33		ug/Kg		61	56 - 132	
Dibromomethane	ND	F1	48.4	33.07		ug/Kg		68	67 - 127	
Dichlorodifluoromethane	ND		48.4	43.77		ug/Kg		90	47 - 127	
Di-isopropyl ether (DIPE)	ND		48.4	38.08		ug/Kg		79	62 - 125	
Ethanol	ND	F2 F1	484	ND		ug/Kg		25	21 - 168	
Ethylbenzene	ND	F1	48.4	22.50	F1	ug/Kg		46	64 - 125	
Ethyl-t-butyl ether (ETBE)	ND		48.4	40.56		ug/Kg		84	61 - 125	
Isopropylbenzene	ND	F1	48.4	15.72	F1	ug/Kg		32	59 - 129	
Methylene Chloride	ND		48.4	36.44		ug/Kg		75	60 - 125	
Methyl-t-Butyl Ether (MTBE)	ND		48.4	38.41		ug/Kg		79	61 - 125	
Naphthalene	ND	F1	48.4	ND	F1	ug/Kg		12	25 - 136	
n-Butylbenzene	ND	F1	48.4	7.677	F1	ug/Kg		14	35 - 135	
N-Propylbenzene	ND	F2 F1	48.4	10.37	F1	ug/Kg		21	52 - 131	
o-Xylene	ND	F1	48.4	25.65	F1	ug/Kg		52	59 - 128	
m,p-Xylene	ND	F2 F1	96.9	43.22	F1	ug/Kg		45	60 - 125	
p-Isopropyltoluene	1.2	F1	48.4	21.73	F1	ug/Kg		42	46 - 132	
sec-Butylbenzene	ND	F1	48.4	11.70	F1	ug/Kg		23	47 - 131	
Styrene	ND	F2 F1	48.4	10.41	F1	ug/Kg		21	58 - 128	
trans-1,2-Dichloroethene	ND		48.4	37.42		ug/Kg		77	67 - 125	
trans-1,3-Dichloropropene	ND		48.4	31.99		ug/Kg		66	59 - 132	
Tert-amyl-methyl ether (TAME)	ND		48.4	37.87		ug/Kg		78	66 - 127	
tert-Butyl alcohol (TBA)	ND		242	157.1		ug/Kg		65	50 - 142	
tert-Butylbenzene	ND	F1	48.4	24.27	F1	ug/Kg		50	53 - 126	
Tetrachloroethene	ND	F1	48.4	29.49	F1	ug/Kg		61	62 - 129	
Toluene	ND	F1	48.4	27.76	F1	ug/Kg		57	68 - 125	
Trichloroethene	ND		48.4	35.44		ug/Kg		73	41 - 169	
Trichlorofluoromethane	ND		48.4	42.47		ug/Kg		88	63 - 128	
Vinyl acetate	ND	F1	48.4	ND	F1	ug/Kg		0	20 - 154	
Vinyl chloride	ND		48.4	46.03		ug/Kg		95	59 - 125	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		64 - 141
4-Bromofluorobenzene (Surr)	98		76 - 120
Dibromofluoromethane (Surr)	100		47 - 142
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 570-80018-B-1-C MSD
Matrix: Solid
Analysis Batch: 203703

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 203722

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND	F1	50.4	27.59	F1	ug/Kg		55	61 - 129	9	23
1,1,1-Trichloroethane	ND	F1	50.4	32.76	F1	ug/Kg		65	67 - 125	9	20
1,1,2,2-Tetrachloroethane	ND		50.4	25.98		ug/Kg		52	20 - 164	6	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	50.4	29.43	F1	ug/Kg		58	62 - 125	16	20
1,1,2-Trichloroethane	ND		50.4	32.55		ug/Kg		65	52 - 134	4	25

Eurofins Southwest, Calscience

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-80018-B-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 203703

Prep Batch: 203722

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethane	ND		50.4	36.42		ug/Kg		72	66 - 125	7	20
1,1-Dichloroethene	ND		50.4	35.06		ug/Kg		70	60 - 125	8	20
1,1-Dichloropropene	ND	F1	50.4	30.61	F1	ug/Kg		61	69 - 125	13	20
1,2,3-Trichlorobenzene	ND		50.4	12.07		ug/Kg		24	20 - 145	11	39
1,2,3-Trichloropropane	ND	F1	50.4	25.74	F1	ug/Kg		51	53 - 128	7	25
1,2,4-Trichlorobenzene	ND		50.4	16.60		ug/Kg		33	20 - 146	12	38
1,2,4-Trimethylbenzene	ND	F2 F1	50.4	12.74	F2 F1	ug/Kg		25	51 - 129	33	27
1,2-Dibromo-3-Chloropropane	ND		50.4	27.05		ug/Kg		54	33 - 126	2	29
1,2-Dibromoethane	ND	F1	50.4	29.77	F1	ug/Kg		59	65 - 125	8	21
1,2-Dichlorobenzene	ND	F2 F1	50.4	9.694	F2 F1	ug/Kg		19	47 - 130	32	29
1,2-Dichloroethane	ND	F1	50.4	29.15	F1	ug/Kg		58	66 - 127	8	20
1,2-Dichloropropane	ND	F1	50.4	34.79	F1	ug/Kg		69	70 - 125	6	20
1,3,5-Trimethylbenzene	ND	F1	50.4	21.78	F1	ug/Kg		41	50 - 132	13	29
1,3-Dichlorobenzene	ND	F1	50.4	19.35	F1	ug/Kg		38	48 - 128	13	28
1,3-Dichloropropane	ND	F1	50.4	30.57	F1	ug/Kg		61	66 - 125	7	20
1,4-Dichlorobenzene	ND	F1	50.4	18.53	F1	ug/Kg		37	47 - 127	12	28
2,2-Dichloropropane	ND		50.4	37.80		ug/Kg		75	61 - 128	8	20
2-Butanone	ND		50.4	26.50		ug/Kg		53	48 - 134	8	24
2-Chlorotoluene	ND	F2 F1	50.4	11.78	F2 F1	ug/Kg		23	54 - 127	35	27
2-Hexanone	ND		50.4	24.72		ug/Kg		49	48 - 136	4	28
4-Chlorotoluene	ND	F1	50.4	15.39	F1	ug/Kg		31	54 - 125	25	26
4-Methyl-2-pentanone	ND		50.4	32.61		ug/Kg		65	55 - 133	1	23
Acetone	ND		50.4	66.86		ug/Kg		133	30 - 175	9	30
Benzene	ND	F1	50.4	29.99	F1	ug/Kg		59	70 - 125	6	20
Bromobenzene	ND	F1	50.4	19.91	F1	ug/Kg		40	57 - 129	14	26
Bromochloromethane	ND	F1	50.4	32.16	F1	ug/Kg		64	67 - 125	9	20
Bromodichloromethane	ND	F1	50.4	31.62	F1	ug/Kg		63	64 - 130	7	20
Bromoform	ND		50.4	26.18		ug/Kg		52	49 - 133	8	27
Bromomethane	ND		50.4	35.71		ug/Kg		71	30 - 149	10	31
cis-1,2-Dichloroethene	ND	F1	50.4	34.49	F1	ug/Kg		68	71 - 125	9	20
cis-1,3-Dichloropropene	ND		50.4	31.71		ug/Kg		63	63 - 126	8	20
Carbon disulfide	ND		50.4	30.76		ug/Kg		60	53 - 125	15	20
Carbon tetrachloride	ND	F1	50.4	29.86	F1	ug/Kg		59	60 - 130	12	20
Chlorobenzene	ND	F1	50.4	24.26	F1	ug/Kg		48	65 - 125	12	22
Chloroethane	ND		50.4	39.62		ug/Kg		79	51 - 131	2	21
Chloroform	ND	F1	50.4	34.36	F1	ug/Kg		68	70 - 125	7	20
Chloromethane	ND		50.4	34.71		ug/Kg		69	43 - 125	2	21
Dibromochloromethane	ND	F1	50.4	27.25	F1	ug/Kg		54	56 - 132	7	24
Dibromomethane	ND	F1	50.4	30.24	F1	ug/Kg		60	67 - 127	9	20
Dichlorodifluoromethane	ND		50.4	42.81		ug/Kg		85	47 - 127	2	20
Di-isopropyl ether (DIPE)	ND		50.4	36.17		ug/Kg		72	62 - 125	5	20
Ethanol	ND	F2 F1	50.4	ND	F2 F1	ug/Kg		13	21 - 168	57	40
Ethylbenzene	ND	F1	50.4	18.02	F1	ug/Kg		36	64 - 125	22	22
Ethyl-t-butyl ether (ETBE)	ND		50.4	38.77		ug/Kg		77	61 - 125	5	20
Isopropylbenzene	ND	F1	50.4	12.31	F1	ug/Kg		24	59 - 129	24	26
Methylene Chloride	ND		50.4	33.28		ug/Kg		66	60 - 125	9	20
Methyl-t-Butyl Ether (MTBE)	ND		50.4	36.94		ug/Kg		73	61 - 125	4	20
Naphthalene	ND	F1	50.4	ND	F1	ug/Kg		13	25 - 136	10	32
n-Butylbenzene	ND	F1	50.4	6.043	F1	ug/Kg		10	35 - 135	24	35

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-80018-B-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 203703

Prep Batch: 203722

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
N-Propylbenzene	ND	F2 F1	50.4	7.488	F2 F1	ug/Kg		15	52 - 131	32	27
o-Xylene	ND	F1	50.4	20.81	F1	ug/Kg		40	59 - 128	21	24
m,p-Xylene	ND	F2 F1	101	31.95	F2 F1	ug/Kg		32	60 - 125	30	24
p-Isopropyltoluene	1.2	F1	50.4	18.74	F1	ug/Kg		35	46 - 132	15	30
sec-Butylbenzene	ND	F1	50.4	8.982	F1	ug/Kg		17	47 - 131	26	30
Styrene	ND	F2 F1	50.4	5.821	F2 F1	ug/Kg		12	58 - 128	57	24
trans-1,2-Dichloroethene	ND		50.4	33.52		ug/Kg		67	67 - 125	11	20
trans-1,3-Dichloropropene	ND		50.4	29.88		ug/Kg		59	59 - 132	7	22
Tert-amyl-methyl ether (TAME)	ND		50.4	36.14		ug/Kg		72	66 - 127	5	20
tert-Butyl alcohol (TBA)	ND		252	173.0		ug/Kg		69	50 - 142	10	27
tert-Butylbenzene	ND	F1	50.4	20.83	F1	ug/Kg		41	53 - 126	15	28
Tetrachloroethene	ND	F1	50.4	25.34	F1	ug/Kg		50	62 - 129	15	21
Toluene	ND	F1	50.4	23.80	F1	ug/Kg		47	68 - 125	15	20
Trichloroethene	ND		50.4	32.44		ug/Kg		64	41 - 169	9	21
Trichlorofluoromethane	ND		50.4	41.48		ug/Kg		82	63 - 128	2	20
Vinyl acetate	ND	F1	50.4	ND	F1	ug/Kg		0	20 - 154	NC	40
Vinyl chloride	ND		50.4	45.41		ug/Kg		90	59 - 125	1	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		64 - 141
4-Bromofluorobenzene (Surr)	99		76 - 120
Dibromofluoromethane (Surr)	98		47 - 142
Toluene-d8 (Surr)	100		80 - 120

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-204099/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 203991

Prep Batch: 204099

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
C6 as C6	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C7 as C7	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C8 as C8	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C9-C10	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C11-C12	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C13-C14	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C15-C16	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C17-C18	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C19-C20	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C21-C22	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C23-C24	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C25-C28	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C29-C32	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C33-C36	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C37-C40	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C41-C44	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
C6-C44	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1
Diesel Range Organics [C10-C28]	ND		5.0	mg/Kg		12/28/21 09:43	12/28/21 13:45	1

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	97		60 - 138	12/28/21 09:43	12/28/21 13:45	1

Lab Sample ID: LCS 570-204099/2-A
Matrix: Solid
Analysis Batch: 203991

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	400	436.8		mg/Kg		109	80 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	103		60 - 138

Lab Sample ID: LCSD 570-204099/3-A
Matrix: Solid
Analysis Batch: 203991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 204099

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	400	431.3		mg/Kg		108	80 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>n</i> -Octacosane (Surr)	102		60 - 138

Lab Sample ID: 440-293482-A-1-A MS
Matrix: Solid
Analysis Batch: 203991

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204099

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		401	419.5		mg/Kg		105	43 - 165

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	100		60 - 138

Lab Sample ID: 440-293482-A-1-B MSD
Matrix: Solid
Analysis Batch: 203991

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204099

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	ND		403	426.1		mg/Kg		106	43 - 165	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
<i>n</i> -Octacosane (Surr)	102		60 - 138

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-203816/1-A
Matrix: Solid
Analysis Batch: 204163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203816

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1
Aroclor-1221	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1
Aroclor-1232	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1
Aroclor-1242	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1
Aroclor-1248	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1
Aroclor-1254	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1
Aroclor-1260	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1
Aroclor-1262	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1
Aroclor-1268	ND		50	ug/Kg		12/27/21 11:39	12/28/21 12:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	81		25 - 126	12/27/21 11:39	12/28/21 12:30	1
DCB Decachlorobiphenyl (Surr)	96		20 - 155	12/27/21 11:39	12/28/21 12:30	1

Lab Sample ID: LCS 570-203816/6-A
Matrix: Solid
Analysis Batch: 204163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	100	105.4		ug/Kg		105	50 - 142
Aroclor-1260	100	106.5		ug/Kg		106	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	86		25 - 126
DCB Decachlorobiphenyl (Surr)	100		20 - 155

Lab Sample ID: LCSD 570-203816/7-A
Matrix: Solid
Analysis Batch: 204163

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203816

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aroclor-1016	100	106.9		ug/Kg		107	50 - 142	1	30
Aroclor-1260	100	108.1		ug/Kg		108	50 - 150	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	86		25 - 126
DCB Decachlorobiphenyl (Surr)	100		20 - 155

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-204678/1-A
Matrix: Solid
Analysis Batch: 205085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204678

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.09	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Arsenic	ND		2.58	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Barium	ND		0.515	mg/Kg		12/30/21 09:09	12/30/21 20:12	1

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 570-204678/1-A
Matrix: Solid
Analysis Batch: 205085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204678

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.258	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Cadmium	ND		0.515	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Chromium	ND		1.03	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Cobalt	ND		1.03	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Copper	ND		1.03	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Lead	ND		5.15	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Molybdenum	ND		0.515	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Nickel	ND		0.515	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Selenium	ND		5.15	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Silver	ND		1.03	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Thallium	ND		5.15	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Vanadium	ND		1.03	mg/Kg		12/30/21 09:09	12/30/21 20:12	1
Zinc	ND		10.3	mg/Kg		12/30/21 09:09	12/30/21 20:12	1

Lab Sample ID: LCS 570-204678/2-A
Matrix: Solid
Analysis Batch: 205085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	25.6	26.68		mg/Kg		104	80 - 120
Arsenic	25.6	26.35		mg/Kg		103	80 - 120
Barium	25.6	28.44		mg/Kg		111	80 - 120
Beryllium	25.6	26.04		mg/Kg		102	80 - 120
Cadmium	25.6	28.64		mg/Kg		112	80 - 120
Chromium	25.6	24.87		mg/Kg		97	80 - 120
Cobalt	25.6	27.32		mg/Kg		107	80 - 120
Copper	25.6	28.96		mg/Kg		113	80 - 120
Lead	25.6	27.89		mg/Kg		109	80 - 120
Molybdenum	25.7	27.31		mg/Kg		106	80 - 120
Nickel	25.6	25.75		mg/Kg		100	80 - 120
Selenium	25.6	27.12		mg/Kg		106	80 - 120
Silver	12.8	13.77		mg/Kg		107	80 - 120
Thallium	25.6	28.16		mg/Kg		110	80 - 120
Vanadium	25.6	26.73		mg/Kg		104	80 - 120
Zinc	25.6	27.39		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 570-204678/3-A
Matrix: Solid
Analysis Batch: 205085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 204678

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	25.8	25.63		mg/Kg		99	80 - 120	4	20
Arsenic	25.8	25.30		mg/Kg		98	80 - 120	4	20
Barium	25.8	27.19		mg/Kg		105	80 - 120	4	20
Beryllium	25.8	25.57		mg/Kg		99	80 - 120	2	20
Cadmium	25.8	27.78		mg/Kg		108	80 - 120	3	20
Chromium	25.8	24.31		mg/Kg		94	80 - 120	2	20
Cobalt	25.8	26.71		mg/Kg		104	80 - 120	2	20
Copper	25.8	27.82		mg/Kg		108	80 - 120	4	20

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QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-204678/3-A
Matrix: Solid
Analysis Batch: 205085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 204678

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	25.8	27.02		mg/Kg		105	80 - 120	3	20
Molybdenum	25.8	26.34		mg/Kg		102	80 - 120	4	20
Nickel	25.8	25.10		mg/Kg		97	80 - 120	3	20
Selenium	25.8	26.13		mg/Kg		101	80 - 120	4	20
Silver	12.9	13.46		mg/Kg		104	80 - 120	2	20
Thallium	25.8	27.33		mg/Kg		106	80 - 120	3	20
Vanadium	25.8	26.14		mg/Kg		101	80 - 120	2	20
Zinc	25.8	26.41		mg/Kg		102	80 - 120	4	20

Lab Sample ID: 570-78953-A-1-F MS
Matrix: Solid
Analysis Batch: 205085

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.36		25.0	27.03		mg/Kg		95	75 - 125
Barium	86.9		25.0	112.3		mg/Kg		101	75 - 125
Beryllium	0.407		25.0	25.20		mg/Kg		99	75 - 125
Cadmium	0.796		25.0	24.78		mg/Kg		96	75 - 125
Chromium	11.9		25.0	38.87		mg/Kg		108	75 - 125
Cobalt	7.82		25.0	31.18		mg/Kg		93	75 - 125
Copper	11.2		25.0	35.05		mg/Kg		95	75 - 125
Lead	10.9		25.0	32.57		mg/Kg		87	75 - 125
Molybdenum	0.651		25.0	23.72		mg/Kg		92	75 - 125
Selenium	ND		25.0	21.14		mg/Kg		85	75 - 125
Silver	ND		12.5	11.54		mg/Kg		92	75 - 125
Thallium	ND		25.0	22.53		mg/Kg		90	75 - 125
Vanadium	22.6		25.0	50.75		mg/Kg		112	75 - 125
Zinc	40.9		25.0	65.50		mg/Kg		98	75 - 125

Lab Sample ID: 570-78953-A-1-G MSD
Matrix: Solid
Analysis Batch: 205085

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.36		25.1	26.88		mg/Kg		94	75 - 125	1	20
Barium	86.9		25.1	113.4		mg/Kg		105	75 - 125	1	20
Beryllium	0.407		25.1	25.22		mg/Kg		99	75 - 125	0	20
Cadmium	0.796		25.1	24.69		mg/Kg		95	75 - 125	0	20
Chromium	11.9		25.1	38.60		mg/Kg		106	75 - 125	1	20
Cobalt	7.82		25.1	31.26		mg/Kg		93	75 - 125	0	20
Copper	11.2		25.1	34.54		mg/Kg		93	75 - 125	1	20
Lead	10.9		25.1	32.38		mg/Kg		85	75 - 125	1	20
Molybdenum	0.651		25.2	23.51		mg/Kg		91	75 - 125	1	20
Selenium	ND		25.1	20.87		mg/Kg		83	75 - 125	1	20
Silver	ND		12.6	11.64		mg/Kg		93	75 - 125	1	20
Thallium	ND		25.1	22.77		mg/Kg		91	75 - 125	1	20
Vanadium	22.6		25.1	50.90		mg/Kg		112	75 - 125	0	20
Zinc	40.9		25.1	66.27		mg/Kg		101	75 - 125	1	20

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-204543/1-A
Matrix: Solid
Analysis Batch: 204799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204543

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0847	mg/Kg		12/29/21 15:35	12/30/21 12:37	1

Lab Sample ID: LCS 570-204543/2-A
Matrix: Solid
Analysis Batch: 204799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.8118		mg/Kg		97	85 - 121

Lab Sample ID: LCSD 570-204543/3-A
Matrix: Solid
Analysis Batch: 204799

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 204543

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.806	0.7845		mg/Kg		97	85 - 121	3	10

Lab Sample ID: 570-79514-A-5-D MS
Matrix: Solid
Analysis Batch: 204799

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 204543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.847	0.8193		mg/Kg		97	71 - 137

Lab Sample ID: 570-79514-A-5-E MSD
Matrix: Solid
Analysis Batch: 204799

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 204543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.820	0.7696		mg/Kg		94	71 - 137	6	14

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

GC/MS VOA

Analysis Batch: 203703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	8260B	203722
MB 570-203722/3-A	Method Blank	Total/NA	Solid	8260B	203722
LCS 570-203722/1-A	Lab Control Sample	Total/NA	Solid	8260B	203722
LCSD 570-203722/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	203722
570-80018-B-1-B MS	Matrix Spike	Total/NA	Solid	8260B	203722
570-80018-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	203722

Prep Batch: 203722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	5030C	
MB 570-203722/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-203722/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-203722/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
570-80018-B-1-B MS	Matrix Spike	Total/NA	Solid	5030C	
570-80018-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 203816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	3546	
570-79982-1 - DL	IDW-Soil-12222021	Total/NA	Solid	3546	
MB 570-203816/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-203816/6-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-203816/7-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 203991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-204099/1-A	Method Blank	Total/NA	Solid	8015B	204099
LCS 570-204099/2-A	Lab Control Sample	Total/NA	Solid	8015B	204099
LCSD 570-204099/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	204099
440-293482-A-1-A MS	Matrix Spike	Total/NA	Solid	8015B	204099
440-293482-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	204099

Prep Batch: 204099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	3550C	
MB 570-204099/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-204099/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-204099/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
440-293482-A-1-A MS	Matrix Spike	Total/NA	Solid	3550C	
440-293482-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 204163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	8082	203816
570-79982-1 - DL	IDW-Soil-12222021	Total/NA	Solid	8082	203816
MB 570-203816/1-A	Method Blank	Total/NA	Solid	8082	203816
LCS 570-203816/6-A	Lab Control Sample	Total/NA	Solid	8082	203816
LCSD 570-203816/7-A	Lab Control Sample Dup	Total/NA	Solid	8082	203816

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

GC Semi VOA

Analysis Batch: 204309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	8015B	204099

Metals

Prep Batch: 204543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	7471A	
MB 570-204543/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-204543/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-204543/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-79514-A-5-D MS	Matrix Spike	Total/NA	Solid	7471A	
570-79514-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 204678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	3050B	
MB 570-204678/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-204678/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-204678/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-78953-A-1-F MS	Matrix Spike	Total/NA	Solid	3050B	
570-78953-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 204799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	7471A	204543
MB 570-204543/1-A	Method Blank	Total/NA	Solid	7471A	204543
LCS 570-204543/2-A	Lab Control Sample	Total/NA	Solid	7471A	204543
LCSD 570-204543/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	204543
570-79514-A-5-D MS	Matrix Spike	Total/NA	Solid	7471A	204543
570-79514-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	204543

Analysis Batch: 205085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79982-1	IDW-Soil-12222021	Total/NA	Solid	6010B	204678
MB 570-204678/1-A	Method Blank	Total/NA	Solid	6010B	204678
LCS 570-204678/2-A	Lab Control Sample	Total/NA	Solid	6010B	204678
LCSD 570-204678/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	204678
570-78953-A-1-F MS	Matrix Spike	Total/NA	Solid	6010B	204678
570-78953-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	204678

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Client Sample ID: IDW-Soil-12222021

Lab Sample ID: 570-79982-1

Date Collected: 12/22/21 09:36

Matrix: Solid

Date Received: 12/22/21 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	203722	12/27/21 09:19	YZL3	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	203703	12/27/21 18:08	U4JL	ECL 2
Instrument ID: GCMSGGG										
Total/NA	Prep	3550C			9.80 g	10 mL	204099	12/28/21 13:40	UFLU	ECL 1
Total/NA	Analysis	8015B		1			204309	12/29/21 14:02	N5Y3	ECL 1
Instrument ID: GC47										
Total/NA	Prep	3546			20.08 g	10 mL	203816	12/27/21 11:44	USUL	ECL 1
Total/NA	Analysis	8082		1			204163	12/28/21 14:54	UJ3K	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.08 g	10 mL	203816	12/27/21 11:44	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			204163	12/28/21 20:35	UJ3K	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3050B			1.97 g	100 mL	204678	12/30/21 09:09	WL8G	ECL 1
Total/NA	Analysis	6010B		1			205085	12/30/21 21:30	UWCT	ECL 1
Instrument ID: ICP9										
Total/NA	Prep	7471A			0.63 g	100 mL	204543	12/29/21 15:35	WL8G	ECL 1
Total/NA	Analysis	7471A		1			204799	12/30/21 13:27	VWJ7	ECL 1
Instrument ID: HG8										

Laboratory References:

ECL 1 = Eurofins Southwest, Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Southwest, Calscience Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Laboratory: Eurofins Southwest, Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

- 1
- 2
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- 5
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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
7471A	Mercury (CVAA)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1
3550C	Ultrasonic Extraction	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
7471A	Preparation, Mercury	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Southwest, Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Southwest, Calscience Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79982-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-79982-1	IDW-Soil-12222021	Solid	12/22/21 09:36	12/22/21 10:45

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Calscience



570-79982 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE 12/22/21 PAGE 1 OF 1

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494 For courier service / sample drop off information contact us26_sales@eurofinsus.com or call us

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: SC1123/13	P O NO: 100030960
ADDRESS: 10644 West Bernardo Drive		PROJECT CONTACT: Brian Rockwell	SAMPLER(S): (PRINT) Emily Imperato
CITY: San Diego	STATE: Ca	ZIP: 92127	
TEL: (619) 309-9549	E-MAIL: B.Rockwell@geosyntec.com		

REQUESTED ANALYSES Please check box or fill in blank as needed

<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD																							
<input type="checkbox"/> COELT EDF		GLOBAL ID:	ECI PROJECT NO	LOG CODE:																			
SPECIAL INSTRUCTIONS					Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH CC (8195)	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals: <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6		
LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH CC (8195)	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals: <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
		DATE	TIME																				
	IDW-Soil-12222021	12/22/21	0936	Soil	2	X						X		X							X	X	

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 12/22/21	Time: 1045
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-79982-1

Login Number: 79982
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Southwest, Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-79979-1
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
1/11/2022 8:42:13 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Job ID: 570-79979-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-79979-1

Comments

No additional comments.

Receipt

The samples were received on 12/22/2021 10:48 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Receipt Exceptions

The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): SB-86-2 (570-79979-21), SB-86-4 (570-79979-22) and SB-86-6 (570-79979-23)

GC Semi VOA

Method 8082: The following sample was analyzed outside of analytical holding time due to change order: SB-92-4 (570-79979-19).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-92-2 (570-79979-18). The reagent lot number used was: 2061690
8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Client Sample ID: SB-92-2

Lab Sample ID: 570-79979-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	75		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-92-4

Lab Sample ID: 570-79979-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	3600		490	ug/Kg	10		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-92-2
Date Collected: 12/22/21 08:59
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-18
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Aroclor-1221	ND		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Aroclor-1232	ND		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Aroclor-1242	ND		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Aroclor-1248	75		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Aroclor-1254	ND		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Aroclor-1260	ND		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Aroclor-1262	ND		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Aroclor-1268	ND		50	ug/Kg		01/05/22 17:30	01/10/22 10:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	64		25 - 126			01/05/22 17:30	01/10/22 10:27	1
DCB Decachlorobiphenyl (Surr)	67		20 - 155			01/05/22 17:30	01/10/22 10:27	1

Client Sample ID: SB-92-4
Date Collected: 12/22/21 09:06
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		49	ug/Kg		01/05/22 17:30	01/10/22 10:45	1
Aroclor-1221	ND		49	ug/Kg		01/05/22 17:30	01/10/22 10:45	1
Aroclor-1232	ND		49	ug/Kg		01/05/22 17:30	01/10/22 10:45	1
Aroclor-1242	ND		49	ug/Kg		01/05/22 17:30	01/10/22 10:45	1
Aroclor-1254	ND		49	ug/Kg		01/05/22 17:30	01/10/22 10:45	1
Aroclor-1260	ND		49	ug/Kg		01/05/22 17:30	01/10/22 10:45	1
Aroclor-1262	ND		49	ug/Kg		01/05/22 17:30	01/10/22 10:45	1
Aroclor-1268	ND		49	ug/Kg		01/05/22 17:30	01/10/22 10:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	64		25 - 126			01/05/22 17:30	01/10/22 10:45	1
DCB Decachlorobiphenyl (Surr)	70		20 - 155			01/05/22 17:30	01/10/22 10:45	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-92-4
Date Collected: 12/22/21 09:06
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	3600		490	ug/Kg		01/05/22 17:30	01/10/22 11:56	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			01/05/22 17:30	01/10/22 11:56	10
<i>DCB Decachlorobiphenyl (Surr)</i>	84		20 - 155			01/05/22 17:30	01/10/22 11:56	10

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Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-79979-18	SB-92-2	64	67
570-79979-19	SB-92-4	64	70
570-79979-19 - DL	SB-92-4	72	84

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

GC Semi VOA

Prep Batch: 205788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-18	SB-92-2	Total/NA	Solid	3546	
570-79979-19	SB-92-4	Total/NA	Solid	3546	
570-79979-19 - DL	SB-92-4	Total/NA	Solid	3546	

Analysis Batch: 206448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-18	SB-92-2	Total/NA	Solid	8082	205788
570-79979-19	SB-92-4	Total/NA	Solid	8082	205788
570-79979-19 - DL	SB-92-4	Total/NA	Solid	8082	205788

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Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Client Sample ID: SB-92-2

Lab Sample ID: 570-79979-18

Date Collected: 12/22/21 08:59

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			206448	01/10/22 10:27	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-92-4

Lab Sample ID: 570-79979-19

Date Collected: 12/22/21 09:06

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.28 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			206448	01/10/22 10:45	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.28 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			206448	01/10/22 11:56	UHHN	ECL 1
Instrument ID: GC58										

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-79979-18	SB-92-2	Solid	12/22/21 08:59	12/22/21 10:48
570-79979-19	SB-92-4	Solid	12/22/21 09:06	12/22/21 10:48

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Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Wednesday, January 5, 2022 3:31 PM
To: Nowak, Stephen; Chad Bird; Michael Lambert
Subject: RE: Eurofins Southwest report and EDD files from 570-79842-1 Batavia / SC1123/13

EXTERNAL EMAIL*

Thanks Steve – yes, that’s fine.

-Brian

From: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Sent: Wednesday, January 5, 2022 3:03 PM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>
Subject: RE: Eurofins Southwest report and EDD files from 570-79842-1 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Brian-

Is it OK to run the samples outside the 14 day holding time?

Stephen Nowak
Project Manager



Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: Stephen.Nowak@eurofinset.com
Website: www.EurofinsUS.com/Calscience

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Wednesday, January 5, 2022 2:12 PM
To: Nowak, Stephen <Stephen.Nowak@eurofinset.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert

<MLambert@Geosyntec.com>

Subject: RE: Eurofins Southwest report and EDD files from 570-79842-1 Batavia / SC1123/13

EXTERNAL EMAIL*

Hi Steve,

Can you please run the following samples (PCBs by EPA Method 8082) that are on hold for this project?

- 2 and 4 foot samples from SB-72, 80, 81, 82, 83, and 92;
- 6 foot samples from SB-70, 73, 74, 75, 76, 78, and 79.

Thanks, and please let me know if you have questions!

-Brian

From: Stephen Nowak <Stephen.Nowak@eurofinset.com>

Sent: Monday, January 3, 2022 5:35 PM

To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>

Subject: Eurofins Southwest report and EDD files from 570-79842-1 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hello,

Attached please find the report and EDD files for job 570-79842-1; Batavia / SC1123/13

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

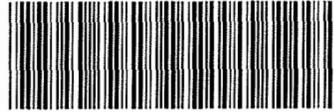
Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: Stephen.Nowak@eurofinset.com
www.eurofinsus.com/env





Calscience



570-79979 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE 12/22/21

PAGE 1 OF 3

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofinsus.com or call us

LABORATORY CLIENT: Geosyntec Consultants					CLIENT PROJECT NAME / NUMBER: SC1123/13					P O NO: 100030960														
ADDRESS: 16644 West Bernardo Drive					PROJECT CONTACT: Brian Rockwell					SAMPLER(S): (PRINT) Emily Imperato														
CITY: San Diego			STATE: Ca		ZIP: 92127																			
TEL: (619) 309-9549		E-MAIL: BRockwell@geosyntec.com			REQUESTED ANALYSES																			
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):										Please check box or fill in blank as needed														
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD																								
<input type="checkbox"/> COELT EDF		GLOBAL ID:			ECI PROJECT NO			LOG CODE																
SPECIAL INSTRUCTIONS					Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6 C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	C(V) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD		
LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6 C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	C(V) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD	
		DATE	TIME																					
1	SB-85-2	12/22/21	0715	Soil	1	X																		
2	SB-85-4		0716																					
3	SB-86-6		0716																					
4	SB-87-2		0732																					
5	SB-87-4		0732																					
6	SB-87-6		0734																					
7	SB-88-2		0758																					
8	SB-88-4		0758																					
9	SB-88-6		0800																					
10	SB-89-2		0825																					
Relinquished by: (Signature) <i>[Signature]</i>					Received by: (Signature/Affiliation) <i>[Signature]</i>					Date: 12/22/21		Time: 1048												
Relinquished by: (Signature)					Received by: (Signature/Affiliation)					Date:		Time:												
Relinquished by: (Signature)					Received by: (Signature/Affiliation)					Date:		Time:												

79979

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1/11/2022

2-0/2-9 JCF

06/02/14 Revision

14 13 12 11 10 9 8 7 6 5 4 3 2 1

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-79979-1

Login Number: 79979
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-79842-2
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
1/11/2022 8:25:32 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Job ID: 570-79842-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-79842-2

Comments

No additional comments.

Receipt

The samples were received on 12/21/2021 2:42 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8° C.

GC Semi VOA

Method 8082: The following samples were analyzed outside of analytical holding time due to change order: SB-72-2 (570-79842-5), SB-72-4 (570-79842-6), SB-73-6 (570-79842-11), SB-74-6 (570-79842-15), SB-75-6 (570-79842-19), SB-76-6 (570-79842-20), SB-78-6 (570-79842-28), SB-79-6 (570-79842-31), SB-80-2 (570-79842-32), SB-80-4 (570-79842-33), SB-81-2 (570-79842-35), SB-81-4 (570-79842-36), SB-82-2 (570-79842-38), SB-82-4 (570-79842-39) and SB-83-2 (570-79842-41).

Method 8082: The following samples were analyzed outside of analytical holding time due to change order: SB-80-4 (570-79842-33), SB-81-2 (570-79842-35), SB-82-4 (570-79842-39) and SB-83-4 (570-79842-42).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples were prepared outside of preparation holding time per change order : SB-72-2 (570-79842-5), SB-72-4 (570-79842-6), SB-73-6 (570-79842-11), SB-74-6 (570-79842-15), SB-75-6 (570-79842-19), SB-76-6 (570-79842-20), SB-78-6 (570-79842-28), SB-79-6 (570-79842-31), SB-80-2 (570-79842-32), SB-80-4 (570-79842-33), SB-81-2 (570-79842-35), SB-81-4 (570-79842-36), SB-82-2 (570-79842-38), SB-82-4 (570-79842-39), SB-83-2 (570-79842-41), SB-83-4 (570-79842-42), (570-79842-A-5 MS) and (570-79842-A-5 MSD). Method 8082.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Client Sample ID: SB-72-2

Lab Sample ID: 570-79842-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	130	H p	50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-72-4

Lab Sample ID: 570-79842-6

No Detections.

Client Sample ID: SB-73-6

Lab Sample ID: 570-79842-11

No Detections.

Client Sample ID: SB-74-6

Lab Sample ID: 570-79842-15

No Detections.

Client Sample ID: SB-75-6

Lab Sample ID: 570-79842-19

No Detections.

Client Sample ID: SB-76-6

Lab Sample ID: 570-79842-20

No Detections.

Client Sample ID: SB-78-6

Lab Sample ID: 570-79842-28

No Detections.

Client Sample ID: SB-79-6

Lab Sample ID: 570-79842-31

No Detections.

Client Sample ID: SB-80-2

Lab Sample ID: 570-79842-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	200	H	50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-80-4

Lab Sample ID: 570-79842-33

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	1900	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-81-2

Lab Sample ID: 570-79842-35

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	6000	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-81-4

Lab Sample ID: 570-79842-36

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	190	H	49	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-82-2

Lab Sample ID: 570-79842-38

No Detections.

Client Sample ID: SB-82-4

Lab Sample ID: 570-79842-39

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	1600	H	490	ug/Kg	10		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Client Sample ID: SB-83-2

Lab Sample ID: 570-79842-41

No Detections.

Client Sample ID: SB-83-4

Lab Sample ID: 570-79842-42

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	900	H	49	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-72-2
Date Collected: 12/21/21 08:42
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H F1	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Aroclor-1221	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Aroclor-1232	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Aroclor-1242	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Aroclor-1248	130	H p	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Aroclor-1254	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Aroclor-1260	ND	H F1 F2	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Aroclor-1262	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Aroclor-1268	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			01/05/22 17:30	01/07/22 19:40	1
<i>DCB Decachlorobiphenyl (Surr)</i>	80		20 - 155			01/05/22 17:30	01/07/22 19:40	1

Client Sample ID: SB-72-4
Date Collected: 12/21/21 08:43
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Aroclor-1221	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Aroclor-1232	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Aroclor-1242	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Aroclor-1248	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Aroclor-1254	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Aroclor-1260	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Aroclor-1262	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Aroclor-1268	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			01/05/22 17:30	01/07/22 19:58	1
<i>DCB Decachlorobiphenyl (Surr)</i>	78		20 - 155			01/05/22 17:30	01/07/22 19:58	1

Client Sample ID: SB-73-6
Date Collected: 12/21/21 09:12
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Aroclor-1221	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Aroclor-1232	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Aroclor-1242	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Aroclor-1248	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Aroclor-1254	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Aroclor-1260	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Aroclor-1262	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Aroclor-1268	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	76		25 - 126			01/05/22 17:30	01/07/22 20:16	1
<i>DCB Decachlorobiphenyl (Surr)</i>	85		20 - 155			01/05/22 17:30	01/07/22 20:16	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-74-6
Date Collected: 12/21/21 09:36
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Aroclor-1221	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Aroclor-1232	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Aroclor-1242	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Aroclor-1248	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Aroclor-1254	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Aroclor-1260	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Aroclor-1262	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Aroclor-1268	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	75		25 - 126			01/05/22 17:30	01/07/22 20:34	1
<i>DCB Decachlorobiphenyl (Surr)</i>	84		20 - 155			01/05/22 17:30	01/07/22 20:34	1

Client Sample ID: SB-75-6
Date Collected: 12/21/21 09:51
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Aroclor-1221	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Aroclor-1232	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Aroclor-1242	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Aroclor-1248	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Aroclor-1254	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Aroclor-1260	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Aroclor-1262	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Aroclor-1268	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 20:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			01/05/22 17:30	01/07/22 20:52	1
<i>DCB Decachlorobiphenyl (Surr)</i>	70		20 - 155			01/05/22 17:30	01/07/22 20:52	1

Client Sample ID: SB-76-6
Date Collected: 12/21/21 10:09
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Aroclor-1221	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Aroclor-1232	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Aroclor-1242	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Aroclor-1248	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Aroclor-1254	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Aroclor-1260	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Aroclor-1262	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Aroclor-1268	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	78		25 - 126			01/05/22 17:30	01/07/22 21:10	1
<i>DCB Decachlorobiphenyl (Surr)</i>	75		20 - 155			01/05/22 17:30	01/07/22 21:10	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-78-6
Date Collected: 12/21/21 10:40
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-28
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Aroclor-1221	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Aroclor-1232	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Aroclor-1242	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Aroclor-1248	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Aroclor-1254	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Aroclor-1260	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Aroclor-1262	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Aroclor-1268	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126			01/05/22 17:30	01/07/22 21:28	1
DCB Decachlorobiphenyl (Surr)	82		20 - 155			01/05/22 17:30	01/07/22 21:28	1

Client Sample ID: SB-79-6
Date Collected: 12/21/21 10:55
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-31
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Aroclor-1221	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Aroclor-1232	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Aroclor-1242	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Aroclor-1248	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Aroclor-1254	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Aroclor-1260	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Aroclor-1262	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Aroclor-1268	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 21:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	75		25 - 126			01/05/22 17:30	01/07/22 21:46	1
DCB Decachlorobiphenyl (Surr)	82		20 - 155			01/05/22 17:30	01/07/22 21:46	1

Client Sample ID: SB-80-2
Date Collected: 12/21/21 11:08
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-32
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Aroclor-1221	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Aroclor-1232	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Aroclor-1242	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Aroclor-1248	200	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Aroclor-1254	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Aroclor-1260	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Aroclor-1262	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Aroclor-1268	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 22:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	81		25 - 126			01/05/22 17:30	01/07/22 22:04	1
DCB Decachlorobiphenyl (Surr)	87		20 - 155			01/05/22 17:30	01/07/22 22:04	1

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-80-4
Date Collected: 12/21/21 11:09
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-33
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:22	1
Aroclor-1221	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:22	1
Aroclor-1232	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:22	1
Aroclor-1242	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:22	1
Aroclor-1254	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:22	1
Aroclor-1260	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:22	1
Aroclor-1262	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:22	1
Aroclor-1268	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	75		25 - 126			01/05/22 17:30	01/07/22 22:22	1
<i>DCB Decachlorobiphenyl (Surr)</i>	84		20 - 155			01/05/22 17:30	01/07/22 22:22	1

Client Sample ID: SB-81-2
Date Collected: 12/21/21 11:51
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-35
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:39	1
Aroclor-1221	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:39	1
Aroclor-1232	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:39	1
Aroclor-1242	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:39	1
Aroclor-1254	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:39	1
Aroclor-1260	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:39	1
Aroclor-1262	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:39	1
Aroclor-1268	ND	H	50	ug/Kg	-	01/05/22 17:30	01/07/22 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	69		25 - 126			01/05/22 17:30	01/07/22 22:39	1
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			01/05/22 17:30	01/07/22 22:39	1

Client Sample ID: SB-81-4
Date Collected: 12/21/21 11:52
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-36
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Aroclor-1221	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Aroclor-1232	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Aroclor-1242	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Aroclor-1248	190	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Aroclor-1254	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Aroclor-1260	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Aroclor-1262	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Aroclor-1268	ND	H	49	ug/Kg	-	01/05/22 17:30	01/07/22 22:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	73		25 - 126			01/05/22 17:30	01/07/22 22:57	1
<i>DCB Decachlorobiphenyl (Surr)</i>	80		20 - 155			01/05/22 17:30	01/07/22 22:57	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-82-2
Date Collected: 12/21/21 11:53
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-38
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Aroclor-1221	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Aroclor-1232	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Aroclor-1242	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Aroclor-1248	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Aroclor-1254	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Aroclor-1260	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Aroclor-1262	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Aroclor-1268	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	75		25 - 126			01/05/22 17:30	01/07/22 23:15	1
DCB Decachlorobiphenyl (Surr)	82		20 - 155			01/05/22 17:30	01/07/22 23:15	1

Client Sample ID: SB-82-4
Date Collected: 12/21/21 11:53
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-39
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	49	ug/Kg		01/05/22 17:30	01/07/22 23:34	1
Aroclor-1221	ND	H	49	ug/Kg		01/05/22 17:30	01/07/22 23:34	1
Aroclor-1232	ND	H	49	ug/Kg		01/05/22 17:30	01/07/22 23:34	1
Aroclor-1242	ND	H	49	ug/Kg		01/05/22 17:30	01/07/22 23:34	1
Aroclor-1254	ND	H	49	ug/Kg		01/05/22 17:30	01/07/22 23:34	1
Aroclor-1260	ND	H	49	ug/Kg		01/05/22 17:30	01/07/22 23:34	1
Aroclor-1262	ND	H	49	ug/Kg		01/05/22 17:30	01/07/22 23:34	1
Aroclor-1268	ND	H	49	ug/Kg		01/05/22 17:30	01/07/22 23:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		25 - 126			01/05/22 17:30	01/07/22 23:34	1
DCB Decachlorobiphenyl (Surr)	79		20 - 155			01/05/22 17:30	01/07/22 23:34	1

Client Sample ID: SB-83-2
Date Collected: 12/21/21 12:16
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-41
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Aroclor-1221	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Aroclor-1232	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Aroclor-1242	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Aroclor-1248	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Aroclor-1254	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Aroclor-1260	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Aroclor-1262	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Aroclor-1268	ND	H	50	ug/Kg		01/05/22 17:30	01/07/22 23:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			01/05/22 17:30	01/07/22 23:51	1
DCB Decachlorobiphenyl (Surr)	76		20 - 155			01/05/22 17:30	01/07/22 23:51	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-83-4
Date Collected: 12/21/21 12:16
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-42
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Aroclor-1221	ND	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Aroclor-1232	ND	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Aroclor-1242	ND	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Aroclor-1248	900	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Aroclor-1254	ND	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Aroclor-1260	ND	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Aroclor-1262	ND	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Aroclor-1268	ND	H	49	ug/Kg		01/05/22 17:30	01/10/22 10:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			01/05/22 17:30	01/10/22 10:09	1
<i>DCB Decachlorobiphenyl (Surr)</i>	77		20 - 155			01/05/22 17:30	01/10/22 10:09	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-80-4
Date Collected: 12/21/21 11:09
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-33
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	1900	H	500	ug/Kg	-	01/05/22 17:30	01/10/22 11:03	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		25 - 126			01/05/22 17:30	01/10/22 11:03	10
<i>DCB Decachlorobiphenyl (Surr)</i>	87		20 - 155			01/05/22 17:30	01/10/22 11:03	10

Client Sample ID: SB-81-2
Date Collected: 12/21/21 11:51
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-35
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	6000	H	500	ug/Kg	-	01/05/22 17:30	01/10/22 11:21	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			01/05/22 17:30	01/10/22 11:21	10
<i>DCB Decachlorobiphenyl (Surr)</i>	80		20 - 155			01/05/22 17:30	01/10/22 11:21	10

Client Sample ID: SB-82-4
Date Collected: 12/21/21 11:53
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-39
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	1600	H	490	ug/Kg	-	01/05/22 17:30	01/10/22 11:38	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	75		25 - 126			01/05/22 17:30	01/10/22 11:38	10
<i>DCB Decachlorobiphenyl (Surr)</i>	85		20 - 155			01/05/22 17:30	01/10/22 11:38	10

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-79842-5	SB-72-2	72	80
570-79842-5 MS	SB-72-2	77	85
570-79842-5 MSD	SB-72-2	75	85
570-79842-6	SB-72-4	72	78
570-79842-11	SB-73-6	76	85
570-79842-15	SB-74-6	75	84
570-79842-19	SB-75-6	71	70
570-79842-20	SB-76-6	78	75
570-79842-28	SB-78-6	78	82
570-79842-31	SB-79-6	75	82
570-79842-32	SB-80-2	81	87
570-79842-33	SB-80-4	75	84
570-79842-33 - DL	SB-80-4	72	87
570-79842-35	SB-81-2	69	76
570-79842-35 - DL	SB-81-2	71	80
570-79842-36	SB-81-4	73	80
570-79842-38	SB-82-2	75	82
570-79842-39	SB-82-4	74	79
570-79842-39 - DL	SB-82-4	75	85
570-79842-41	SB-83-2	73	76
570-79842-42	SB-83-4	71	77
LCS 570-205788/2-A	Lab Control Sample	79	87
LCSD 570-205788/3-A	Lab Control Sample Dup	81	86
MB 570-205788/1-A	Method Blank	81	86

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-205788/1-A
Matrix: Solid
Analysis Batch: 205884

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205788

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1
Aroclor-1221	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1
Aroclor-1232	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1
Aroclor-1242	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1
Aroclor-1248	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1
Aroclor-1254	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1
Aroclor-1260	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1
Aroclor-1262	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1
Aroclor-1268	ND		50	ug/Kg		01/05/22 17:30	01/07/22 18:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	81		25 - 126	01/05/22 17:30	01/07/22 18:11	1
DCB Decachlorobiphenyl (Surr)	86		20 - 155	01/05/22 17:30	01/07/22 18:11	1

Lab Sample ID: LCS 570-205788/2-A
Matrix: Solid
Analysis Batch: 205884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	100	106.7		ug/Kg		107	50 - 142
Aroclor-1260	100	103.3		ug/Kg		103	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	79		25 - 126
DCB Decachlorobiphenyl (Surr)	87		20 - 155

Lab Sample ID: LCSD 570-205788/3-A
Matrix: Solid
Analysis Batch: 205884

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 205788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aroclor-1016	100	120.2		ug/Kg		120	50 - 142	12	30
Aroclor-1260	100	106.8		ug/Kg		107	50 - 150	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	81		25 - 126
DCB Decachlorobiphenyl (Surr)	86		20 - 155

Lab Sample ID: 570-79842-5 MS
Matrix: Solid
Analysis Batch: 205884

Client Sample ID: SB-72-2
Prep Type: Total/NA
Prep Batch: 205788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	ND	H F1	99.2	139.2		ug/Kg		140	20 - 175
Aroclor-1260	ND	H F1 F2	99.2	166.9		ug/Kg		168	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-79842-5 MS
Matrix: Solid
Analysis Batch: 205884

Client Sample ID: SB-72-2
Prep Type: Total/NA
Prep Batch: 205788

<u>Surrogate</u>	<u>%Recovery</u>	<u>MS MS Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	77		25 - 126
DCB Decachlorobiphenyl (Surr)	85		20 - 155

Lab Sample ID: 570-79842-5 MSD
Matrix: Solid
Analysis Batch: 205884

Client Sample ID: SB-72-2
Prep Type: Total/NA
Prep Batch: 205788

<u>Analyte</u>	<u>Sample Result</u>	<u>Sample Qualifier</u>	<u>Spike Added</u>	<u>MSD Result</u>	<u>MSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec. Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Aroclor-1016	ND	H F1	99.4	200.8	F1	ug/Kg		202	20 - 175	36	40
Aroclor-1260	ND	H F1 F2	99.4	289.8	F1 F2	ug/Kg		292	20 - 180	54	40

<u>Surrogate</u>	<u>%Recovery</u>	<u>MSD MSD Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	75		25 - 126
DCB Decachlorobiphenyl (Surr)	85		20 - 155

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

GC Semi VOA

Prep Batch: 205788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-5	SB-72-2	Total/NA	Solid	3546	
570-79842-6	SB-72-4	Total/NA	Solid	3546	
570-79842-11	SB-73-6	Total/NA	Solid	3546	
570-79842-15	SB-74-6	Total/NA	Solid	3546	
570-79842-19	SB-75-6	Total/NA	Solid	3546	
570-79842-20	SB-76-6	Total/NA	Solid	3546	
570-79842-28	SB-78-6	Total/NA	Solid	3546	
570-79842-31	SB-79-6	Total/NA	Solid	3546	
570-79842-32	SB-80-2	Total/NA	Solid	3546	
570-79842-33 - DL	SB-80-4	Total/NA	Solid	3546	
570-79842-33	SB-80-4	Total/NA	Solid	3546	
570-79842-35 - DL	SB-81-2	Total/NA	Solid	3546	
570-79842-35	SB-81-2	Total/NA	Solid	3546	
570-79842-36	SB-81-4	Total/NA	Solid	3546	
570-79842-38	SB-82-2	Total/NA	Solid	3546	
570-79842-39	SB-82-4	Total/NA	Solid	3546	
570-79842-39 - DL	SB-82-4	Total/NA	Solid	3546	
570-79842-41	SB-83-2	Total/NA	Solid	3546	
570-79842-42	SB-83-4	Total/NA	Solid	3546	
MB 570-205788/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-205788/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-205788/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-79842-5 MS	SB-72-2	Total/NA	Solid	3546	
570-79842-5 MSD	SB-72-2	Total/NA	Solid	3546	

Analysis Batch: 205884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-5	SB-72-2	Total/NA	Solid	8082	205788
570-79842-6	SB-72-4	Total/NA	Solid	8082	205788
570-79842-11	SB-73-6	Total/NA	Solid	8082	205788
570-79842-15	SB-74-6	Total/NA	Solid	8082	205788
570-79842-19	SB-75-6	Total/NA	Solid	8082	205788
570-79842-20	SB-76-6	Total/NA	Solid	8082	205788
570-79842-28	SB-78-6	Total/NA	Solid	8082	205788
570-79842-31	SB-79-6	Total/NA	Solid	8082	205788
570-79842-32	SB-80-2	Total/NA	Solid	8082	205788
570-79842-33	SB-80-4	Total/NA	Solid	8082	205788
570-79842-35	SB-81-2	Total/NA	Solid	8082	205788
570-79842-36	SB-81-4	Total/NA	Solid	8082	205788
570-79842-38	SB-82-2	Total/NA	Solid	8082	205788
570-79842-39	SB-82-4	Total/NA	Solid	8082	205788
570-79842-41	SB-83-2	Total/NA	Solid	8082	205788
MB 570-205788/1-A	Method Blank	Total/NA	Solid	8082	205788
LCS 570-205788/2-A	Lab Control Sample	Total/NA	Solid	8082	205788
LCSD 570-205788/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	205788
570-79842-5 MS	SB-72-2	Total/NA	Solid	8082	205788
570-79842-5 MSD	SB-72-2	Total/NA	Solid	8082	205788

Analysis Batch: 206448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-33 - DL	SB-80-4	Total/NA	Solid	8082	205788

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QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

GC Semi VOA (Continued)

Analysis Batch: 206448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-35 - DL	SB-81-2	Total/NA	Solid	8082	205788
570-79842-39 - DL	SB-82-4	Total/NA	Solid	8082	205788
570-79842-42	SB-83-4	Total/NA	Solid	8082	205788

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Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Client Sample ID: SB-72-2

Lab Sample ID: 570-79842-5

Date Collected: 12/21/21 08:42

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 19:40	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-72-4

Lab Sample ID: 570-79842-6

Date Collected: 12/21/21 08:43

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.21 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 19:58	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-73-6

Lab Sample ID: 570-79842-11

Date Collected: 12/21/21 09:12

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 20:16	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-74-6

Lab Sample ID: 570-79842-15

Date Collected: 12/21/21 09:36

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 20:34	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-75-6

Lab Sample ID: 570-79842-19

Date Collected: 12/21/21 09:51

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 20:52	UJ3K	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Client Sample ID: SB-76-6

Lab Sample ID: 570-79842-20

Date Collected: 12/21/21 10:09

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 21:10	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-78-6

Lab Sample ID: 570-79842-28

Date Collected: 12/21/21 10:40

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 21:28	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-79-6

Lab Sample ID: 570-79842-31

Date Collected: 12/21/21 10:55

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 21:46	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-80-2

Lab Sample ID: 570-79842-32

Date Collected: 12/21/21 11:08

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.19 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 22:04	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-80-4

Lab Sample ID: 570-79842-33

Date Collected: 12/21/21 11:09

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 22:22	UJ3K	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.14 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			206448	01/10/22 11:03	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Client Sample ID: SB-81-2

Lab Sample ID: 570-79842-35

Date Collected: 12/21/21 11:51

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 22:39	UJ3K	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.16 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			206448	01/10/22 11:21	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-81-4

Lab Sample ID: 570-79842-36

Date Collected: 12/21/21 11:52

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.23 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 22:57	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-82-2

Lab Sample ID: 570-79842-38

Date Collected: 12/21/21 11:53

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 23:15	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-82-4

Lab Sample ID: 570-79842-39

Date Collected: 12/21/21 11:53

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.28 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 23:34	UJ3K	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.28 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			206448	01/10/22 11:38	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-83-2

Lab Sample ID: 570-79842-41

Date Collected: 12/21/21 12:16

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			205884	01/07/22 23:51	UJ3K	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Client Sample ID: SB-83-4

Lab Sample ID: 570-79842-42

Date Collected: 12/21/21 12:16

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.22 g	10 mL	205788	01/05/22 17:30	USUL	ECL 1
Total/NA	Analysis	8082		1			206448	01/10/22 10:09	UHNN	ECL 1

Instrument ID: GC58

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-79842-5	SB-72-2	Solid	12/21/21 08:42	12/21/21 14:42
570-79842-6	SB-72-4	Solid	12/21/21 08:43	12/21/21 14:42
570-79842-11	SB-73-6	Solid	12/21/21 09:12	12/21/21 14:42
570-79842-15	SB-74-6	Solid	12/21/21 09:36	12/21/21 14:42
570-79842-19	SB-75-6	Solid	12/21/21 09:51	12/21/21 14:42
570-79842-20	SB-76-6	Solid	12/21/21 10:09	12/21/21 14:42
570-79842-28	SB-78-6	Solid	12/21/21 10:40	12/21/21 14:42
570-79842-31	SB-79-6	Solid	12/21/21 10:55	12/21/21 14:42
570-79842-32	SB-80-2	Solid	12/21/21 11:08	12/21/21 14:42
570-79842-33	SB-80-4	Solid	12/21/21 11:09	12/21/21 14:42
570-79842-35	SB-81-2	Solid	12/21/21 11:51	12/21/21 14:42
570-79842-36	SB-81-4	Solid	12/21/21 11:52	12/21/21 14:42
570-79842-38	SB-82-2	Solid	12/21/21 11:53	12/21/21 14:42
570-79842-39	SB-82-4	Solid	12/21/21 11:53	12/21/21 14:42
570-79842-41	SB-83-2	Solid	12/21/21 12:16	12/21/21 14:42
570-79842-42	SB-83-4	Solid	12/21/21 12:16	12/21/21 14:42

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Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Wednesday, January 5, 2022 3:31 PM
To: Nowak, Stephen; Chad Bird; Michael Lambert
Subject: RE: Eurofins Southwest report and EDD files from 570-79842-1 Batavia / SC1123/13

EXTERNAL EMAIL*

Thanks Steve – yes, that’s fine.

-Brian

From: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Sent: Wednesday, January 5, 2022 3:03 PM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>
Subject: RE: Eurofins Southwest report and EDD files from 570-79842-1 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Brian-

Is it OK to run the samples outside the 14 day holding time?

Stephen Nowak
Project Manager



Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: Stephen.Nowak@eurofinset.com
Website: www.EurofinsUS.com/Calscience

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Wednesday, January 5, 2022 2:12 PM
To: Nowak, Stephen <Stephen.Nowak@eurofinset.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert

<MLambert@Geosyntec.com>

Subject: RE: Eurofins Southwest report and EDD files from 570-79842-1 Batavia / SC1123/13

EXTERNAL EMAIL*

Hi Steve,

Can you please run the following samples (PCBs by EPA Method 8082) that are on hold for this project?

- 2 and 4 foot samples from SB-72, 80, 81, 82, 83, and 92;
- 6 foot samples from SB-70, 73, 74, 75, 76, 78, and 79.

Thanks, and please let me know if you have questions!

-Brian

From: Stephen Nowak <Stephen.Nowak@eurofinset.com>

Sent: Monday, January 3, 2022 5:35 PM

To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>

Subject: Eurofins Southwest report and EDD files from 570-79842-1 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hello,

Attached please find the report and EDD files for job 570-79842-1; Batavia / SC1123/13

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: Stephen.Nowak@eurofinset.com
www.eurofinsus.com/env



79842



Calscience



570-79842 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 12/21/21

PAGE 1 OF 5

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: SC1123/13	P.O. NO: 100030960
ADDRESS: 16644 West Bernardo Drive		PROJECT CONTACT: Brian Rockwell	SAMPLER(S): (PRINT) Emily Imperato
CITY: San Diego	STATE: Ca	ZIP: 92127	

TEL: **(619) 309-9549** E-MAIL: **B.Rockwell@geosyntec.com**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID _____ ECI PROJECT NO _____ LOG CODE _____

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

Please check box or fill in blank as needed

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD
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LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD	
		DATE	TIME																					
1	SB-70-4	12/21/21	0800	SO11	1	X																		
2	SB-71-2		0829																					X
3	SB-71-4		0832																					X
4	SB-71-6		0835																					X
5	SB-72-2		0842																					X
6	SB-72-4		0843																					X
7	SB-72-6		0846																					X
8	SB-73 E1 SB-73-2		0902																X					X E1
9	SB-73-3		0908																X					X E1
10	SB-73-4		0909																X					X E1

Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature/Affiliation): <i>[Signature] ECI</i>	Date: 12/21/21	Time: 1442
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:

Page 28 of 33

1/11/2022



Calscience

CHAIN OF CUSTODY RECORD

DATE: 12/21/21

PAGE 5 OF 5

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: SC1123/13	PO NO: 100030960
ADDRESS: 16644 West Bernardo Drive		PROJECT CONTACT: Brian Rockwell	SAMPLER(S): (PRINT) Emily Imperato
CITY: San Diego	STATE: Ca ZIP: 92127		
TEL: (619) 309-9549	E-MAIL: BRockwell@geosyntec.com		

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

REQUESTED ANALYSES

Please check box or fill in blank as needed

<input type="checkbox"/> COELT EDF	GLOBAL ID:	ECI PROJECT NO	LOG CODE	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD
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SPECIAL INSTRUCTIONS

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filled	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD		
		DATE	TIME																						
41	SB-83-2	12/21/21	1216	Soil	1	X																			
42	SB-83-4		1216																						
43	SB-83-6		1217																						
44	SB-84-2		1235																						
45	SB-84-4		1235																						
46	SB-84-6		1236																						

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] ECI</i>	Date: 12/21/21	Time: 1442
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-79842-2

Login Number: 79842
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-79842-3
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
1/17/2022 10:29:51 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Job ID: 570-79842-3

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-79842-3

Comments

No additional comments.

Receipt

The samples were received on 12/21/2021 2:42 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8° C.

GC Semi VOA

Method 8082: The following samples were analyzed outside of analytical holding time SB-80-6 (570-79842-34) and SB-82-6 (570-79842-40).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples were prepared outside of preparation holding time per change order requested: SB-80-6 (570-79842-34) and SB-82-6 (570-79842-40). Method 8082.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Client Sample ID: SB-80-6

Lab Sample ID: 570-79842-34

No Detections.

Client Sample ID: SB-82-6

Lab Sample ID: 570-79842-40

No Detections.

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This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-80-6
Date Collected: 12/21/21 11:10
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-34
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Aroclor-1248	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			01/12/22 15:34	01/13/22 16:40	1
DCB Decachlorobiphenyl (Surr)	76		20 - 155			01/12/22 15:34	01/13/22 16:40	1

Client Sample ID: SB-82-6
Date Collected: 12/21/21 11:54
Date Received: 12/21/21 14:42

Lab Sample ID: 570-79842-40
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Aroclor-1248	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	67		25 - 126			01/12/22 15:34	01/13/22 16:58	1
DCB Decachlorobiphenyl (Surr)	72		20 - 155			01/12/22 15:34	01/13/22 16:58	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-79842-34	SB-80-6	73	76
570-79842-40	SB-82-6	67	72
570-81212-A-1-K MS	Matrix Spike	116	99
570-81212-A-1-L MSD	Matrix Spike Duplicate	79	68
LCS 570-207051/2-A	Lab Control Sample	83	84
LCSD 570-207051/3-A	Lab Control Sample Dup	85	85
MB 570-207051/1-A	Method Blank	86	87

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-207051/1-A
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 207051

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1221	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1232	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1242	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1248	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1254	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1260	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1262	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1268	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	86		25 - 126	01/12/22 14:00	01/13/22 02:37	1
DCB Decachlorobiphenyl (Surr)	87		20 - 155	01/12/22 14:00	01/13/22 02:37	1

Lab Sample ID: LCS 570-207051/2-A
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 207051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	100	113.2		ug/Kg		113	50 - 142
Aroclor-1260	100	111.3		ug/Kg		111	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	83		25 - 126
DCB Decachlorobiphenyl (Surr)	84		20 - 155

Lab Sample ID: LCSD 570-207051/3-A
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 207051

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aroclor-1016	100	118.3		ug/Kg		118	50 - 142	4	30
Aroclor-1260	100	115.4		ug/Kg		115	50 - 150	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	85		25 - 126
DCB Decachlorobiphenyl (Surr)	85		20 - 155

Lab Sample ID: 570-81212-A-1-K MS
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 207051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	ND		99.3	85.06		ug/Kg		86	20 - 175
Aroclor-1260	ND		99.3	86.31		ug/Kg		87	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-81212-A-1-K MS
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 207051

<u>Surrogate</u>	<u>%Recovery</u>	<u>MS MS</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	116		25 - 126
DCB Decachlorobiphenyl (Surr)	99		20 - 155

Lab Sample ID: 570-81212-A-1-L MSD
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 207051

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
Aroclor-1016	ND		99.5	101.9		ug/Kg		102	20 - 175	18	40
Aroclor-1260	ND		99.5	93.95		ug/Kg		94	20 - 180	8	40

<u>Surrogate</u>	<u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	79		25 - 126
DCB Decachlorobiphenyl (Surr)	68		20 - 155



QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

GC Semi VOA

Prep Batch: 207051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-34	SB-80-6	Total/NA	Solid	3546	
570-79842-40	SB-82-6	Total/NA	Solid	3546	
MB 570-207051/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-207051/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-207051/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-81212-A-1-K MS	Matrix Spike	Total/NA	Solid	3546	
570-81212-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 207141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79842-34	SB-80-6	Total/NA	Solid	8082	207051
570-79842-40	SB-82-6	Total/NA	Solid	8082	207051
MB 570-207051/1-A	Method Blank	Total/NA	Solid	8082	207051
LCS 570-207051/2-A	Lab Control Sample	Total/NA	Solid	8082	207051
LCSD 570-207051/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	207051
570-81212-A-1-K MS	Matrix Spike	Total/NA	Solid	8082	207051
570-81212-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	207051

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Client Sample ID: SB-80-6

Lab Sample ID: 570-79842-34

Date Collected: 12/21/21 11:10

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 16:40	UHNN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-82-6

Lab Sample ID: 570-79842-40

Date Collected: 12/21/21 11:54

Matrix: Solid

Date Received: 12/21/21 14:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 16:58	UHNN	ECL 1

Instrument ID: GC58

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79842-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-79842-34	SB-80-6	Solid	12/21/21 11:10	12/21/21 14:42
570-79842-40	SB-82-6	Solid	12/21/21 11:54	12/21/21 14:42

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Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Wednesday, January 12, 2022 12:30 PM
To: Nowak, Stephen
Subject: RE: Eurofins Southwest report and EDD files from 570-79842-2 Batavia / SC1123/13

EXTERNAL EMAIL*

Thanks Steve! Yes, good catch – typo on my end. Please run 92-6.

-Brian

From: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Sent: Wednesday, January 12, 2022 12:28 PM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>
Subject: RE: Eurofins Southwest report and EDD files from 570-79842-2 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Brian-

FYI-
92-2 and 92-4 previously reported.
Did you need 92-6 analyzed?

Stephen Nowak
Project Manager



Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: Stephen.Nowak@eurofinset.com
Website: www.EurofinsUS.com/Calscience

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Wednesday, January 12, 2022 11:32 AM
To: Nowak, Stephen <Stephen.Nowak@eurofinset.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert

<MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>

Subject: RE: Eurofins Southwest report and EDD files from 570-79842-2 Batavia / SC1123/13

EXTERNAL EMAIL*

Hi Steve,

Please proceed to analyze the following held samples:

SB-80 (6 ft), 82 (6 ft), 85 (2ft, 4ft), 86 (2ft, 4ft), 87 (2ft, 4ft), 90 (2ft, 4ft), 91 (2ft, 4ft), and 92 (2ft, 4ft).

Thanks!

Brian Rockwell
(619) 810-4033

From: Stephen Nowak <Stephen.Nowak@eurofinset.com>

Sent: Tuesday, January 11, 2022 8:30 AM

To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>

Subject: Eurofins Southwest report and EDD files from 570-79842-2 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hello,

Attached please find the report and EDD files for job 570-79842-2; Batavia / SC1123/13

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: Stephen.Nowak@eurofinset.com
www.eurofinsus.com/env

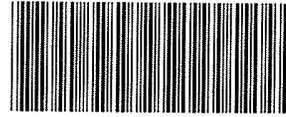


Reference: [570-277990]
Attachments: 2

79842



Calscience



570-79842 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 12/21/21

PAGE 1 OF 5

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: SC1123/13	P.O. NO: 100030960
ADDRESS: 16644 West Bernardo Drive		PROJECT CONTACT: Brian Rockwell	SAMPLER(S): (PRINT) Emily Imperato
CITY: San Diego	STATE: Ca	ZIP: 92127	

TEL: **(619) 309-9549** E-MAIL: **B.Rockwell@geosyntec.com**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID _____ ECI PROJECT NO _____ LOG CODE _____

SPECIAL INSTRUCTIONS _____

UNPRESERVED PRESERVED FIELD FILTERED

TPH(g) GRO TPH(d) DRO TPH C6-C36 C6-C44 BTEX / MTBE 8260 VOCs (8260) Oxygenates (8260) Prep (5035) En Core Terra Core SVOCs (8270) Pesticides (8081) PCBs (8082) PAHs 8270 8270 SIM T22 Metals 6010/747X 6020/747X Cr(VI) 7196 7199 218 6 **HOLD**

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD		
		DATE	TIME																						
1	SB-70-4	12/21/21	0800	SO11	1	X																			
2	SB-71-2		0829																						X
3	SB-71-4		0832																						X
4	SB-71-6		0835																						X
5	SB-72-2		0842																						X
6	SB-72-4		0843																						X
7	SB-72-6		0846																						X
8	SB-73 E1 SB-73-2		0902																	X					X E1
9	SB-73-3		0908																	X					X E1
10	SB-73-4		0909																	X					X E1

Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature/Affiliation): <i>[Signature] ECI</i>	Date: 12/21/21	Time: 1442
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:
Relinquished by (Signature):	Received by (Signature/Affiliation):	Date:	Time:



Calscience

CHAIN OF CUSTODY RECORD

DATE: 12/21/21

PAGE 5 OF 5

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: Geosyntec Consultants		CLIENT PROJECT NAME / NUMBER: SC1123/13	PO NO: 100030960
ADDRESS: 16644 West Bernardo Drive		PROJECT CONTACT: Brian Rockwell	SAMPLER(S): (PRINT) Emily Imperato
CITY: San Diego	STATE: Ca ZIP: 92127		
TEL: (619) 309-9549	E-MAIL: BRockwell@geosyntec.com		

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF

GLOBAL ID: _____ ECI PROJECT NO: _____ LOG CODE: _____

SPECIAL INSTRUCTIONS: _____

Please check box or fill in blank as needed

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD
--	--	---	-----------	--	-------------	-------------------	--	--------------	-------------------	-------------	--	--	---	-------------

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Unpreserved	Preserved	Field Filled	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH _____	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD		
		DATE	TIME																						
41	SB-83-2	12/21/21	1216	Soil	1	X																			
42	SB-83-4		1216																						
43	SB-83-6		1217																						
44	SB-84-2		1235																						
45	SB-84-4		1235																						
46	SB-84-6		1236																						

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] ECI</i>	Date: 12/21/21	Time: 1442
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-79842-3

Login Number: 79842

List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-85502-1
Client Project/Site: Batavia / SC1123-17

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
3/9/2022 12:28:21 PM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Job ID: 570-85502-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-85502-1

Comments

No additional comments.

Receipt

The samples were received on 2/23/2022 2:36 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

Receipt Exceptions

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): SB-100-3 (570-85502-40)

GC Semi VOA

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-216388 and analytical batch 570-217115 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-104-4 (570-85502-35). The reagent lot number used was: 2061690
8082

Method 3546: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: SB-98-2 (570-85502-16), SB-99-4 (570-85502-20), SB-100-2 (570-85502-22) and SB-101-4 (570-85502-26). The reagent lot number used was: 2061690
8082

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-93-2

Lab Sample ID: 570-85502-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	3000		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-93-4

Lab Sample ID: 570-85502-2

No Detections.

Client Sample ID: SB-94-2

Lab Sample ID: 570-85502-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	33000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-94-4

Lab Sample ID: 570-85502-5

No Detections.

Client Sample ID: SB-95-2

Lab Sample ID: 570-85502-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	33000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-95-4

Lab Sample ID: 570-85502-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	100000		10000	ug/Kg	200		8082	Total/NA

Client Sample ID: SB-96-2

Lab Sample ID: 570-85502-10

No Detections.

Client Sample ID: SB-96-4

Lab Sample ID: 570-85502-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	9100		1000	ug/Kg	20		8082	Total/NA

Client Sample ID: SB-97-2

Lab Sample ID: 570-85502-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5400		1000	ug/Kg	20		8082	Total/NA

Client Sample ID: SB-97-4

Lab Sample ID: 570-85502-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	19000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-98-2

Lab Sample ID: 570-85502-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5100		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-98-4

Lab Sample ID: 570-85502-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1800		500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-99-2

Lab Sample ID: 570-85502-19

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-99-4

Lab Sample ID: 570-85502-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	22000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-100-2

Lab Sample ID: 570-85502-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	6600		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-100-4

Lab Sample ID: 570-85502-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	24000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-101-2

Lab Sample ID: 570-85502-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	850		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-101-4

Lab Sample ID: 570-85502-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	170000		25000	ug/Kg	500		8082	Total/NA

Client Sample ID: SB-102-2

Lab Sample ID: 570-85502-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	120		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-102-4

Lab Sample ID: 570-85502-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	14000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-103-2

Lab Sample ID: 570-85502-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1600		250	ug/Kg	5		8082	Total/NA

Client Sample ID: SB-103-4

Lab Sample ID: 570-85502-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	14000		5000	ug/Kg	100		8082	Total/NA

Client Sample ID: SB-104-2

Lab Sample ID: 570-85502-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	60		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-104-4

Lab Sample ID: 570-85502-35

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	200		50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-105-2

Lab Sample ID: 570-85502-37

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	60		50	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-105-4

Lab Sample ID: 570-85502-38

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-93-2
Date Collected: 02/23/22 08:52
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	F1	50	ug/Kg		03/01/22 17:11	03/06/22 06:13	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:13	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:13	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:13	1
Aroclor-1248	3000		500	ug/Kg		03/01/22 17:11	03/08/22 11:38	10
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:13	1
Aroclor-1260	ND	F2 F1	50	ug/Kg		03/01/22 17:11	03/06/22 06:13	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:13	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	84		25 - 126			03/01/22 17:11	03/06/22 06:13	1
<i>Tetrachloro-m-xylene (Surr)</i>	102		25 - 126			03/01/22 17:11	03/08/22 11:38	10
<i>DCB Decachlorobiphenyl (Surr)</i>	77		20 - 155			03/01/22 17:11	03/06/22 06:13	1
<i>DCB Decachlorobiphenyl (Surr)</i>	91		20 - 155			03/01/22 17:11	03/08/22 11:38	10

Client Sample ID: SB-93-4
Date Collected: 02/23/22 08:52
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Aroclor-1248	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	86		25 - 126			03/01/22 17:11	03/06/22 06:32	1
<i>DCB Decachlorobiphenyl (Surr)</i>	83		20 - 155			03/01/22 17:11	03/06/22 06:32	1

Client Sample ID: SB-94-2
Date Collected: 02/23/22 09:08
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:51	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:51	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:51	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:51	1
Aroclor-1248	33000		5000	ug/Kg		03/01/22 17:11	03/08/22 12:16	100
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:51	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:51	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:51	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 06:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	83		25 - 126			03/01/22 17:11	03/06/22 06:51	1
<i>Tetrachloro-m-xylene (Surr)</i>	67		25 - 126			03/01/22 17:11	03/08/22 12:16	100

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB-94-2
Date Collected: 02/23/22 09:08
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-4
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	80		20 - 155	03/01/22 17:11	03/06/22 06:51	1
DCB Decachlorobiphenyl (Surr)	99		20 - 155	03/01/22 17:11	03/08/22 12:16	100

Client Sample ID: SB-94-4
Date Collected: 02/23/22 09:08
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1
Aroclor-1248	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	90		25 - 126	03/01/22 17:11	03/06/22 07:10	1
DCB Decachlorobiphenyl (Surr)	77		20 - 155	03/01/22 17:11	03/06/22 07:10	1

Client Sample ID: SB-95-2
Date Collected: 02/23/22 09:21
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:29	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:29	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:29	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:29	1
Aroclor-1248	33000		5000	ug/Kg		03/01/22 17:11	03/08/22 12:35	100
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:29	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:29	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:29	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126	03/01/22 17:11	03/06/22 07:29	1
Tetrachloro-m-xylene (Surr)	91		25 - 126	03/01/22 17:11	03/08/22 12:35	100
DCB Decachlorobiphenyl (Surr)	81		20 - 155	03/01/22 17:11	03/06/22 07:29	1
DCB Decachlorobiphenyl (Surr)	111		20 - 155	03/01/22 17:11	03/08/22 12:35	100

Client Sample ID: SB-95-4
Date Collected: 02/23/22 09:21
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:48	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:48	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:48	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:48	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:48	1

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB-95-4
Date Collected: 02/23/22 09:21
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:48	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:48	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 07:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	80		25 - 126			03/01/22 17:11	03/06/22 07:48	1
DCB Decachlorobiphenyl (Surr)	77		20 - 155			03/01/22 17:11	03/06/22 07:48	1

Client Sample ID: SB-96-2
Date Collected: 02/23/22 09:32
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Aroclor-1248	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	97		25 - 126			03/01/22 17:11	03/06/22 08:07	1
DCB Decachlorobiphenyl (Surr)	82		20 - 155			03/01/22 17:11	03/06/22 08:07	1

Client Sample ID: SB-96-4
Date Collected: 02/23/22 09:32
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:26	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:26	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:26	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:26	1
Aroclor-1248	9100		1000	ug/Kg		03/01/22 17:11	03/08/22 13:13	20
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:26	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:26	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:26	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			03/01/22 17:11	03/06/22 08:26	1
Tetrachloro-m-xylene (Surr)	101		25 - 126			03/01/22 17:11	03/08/22 13:13	20
DCB Decachlorobiphenyl (Surr)	71		20 - 155			03/01/22 17:11	03/06/22 08:26	1
DCB Decachlorobiphenyl (Surr)	107		20 - 155			03/01/22 17:11	03/08/22 13:13	20

Client Sample ID: SB-97-2
Date Collected: 02/23/22 09:44
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:45	1

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB-97-2
Date Collected: 02/23/22 09:44
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:45	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:45	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:45	1
Aroclor-1248	5400		1000	ug/Kg		03/01/22 17:11	03/08/22 13:32	20
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:45	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:45	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:45	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 08:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	65		25 - 126			03/01/22 17:11	03/06/22 08:45	1
<i>Tetrachloro-m-xylene (Surr)</i>	89		25 - 126			03/01/22 17:11	03/08/22 13:32	20
<i>DCB Decachlorobiphenyl (Surr)</i>	58		20 - 155			03/01/22 17:11	03/06/22 08:45	1
<i>DCB Decachlorobiphenyl (Surr)</i>	89		20 - 155			03/01/22 17:11	03/08/22 13:32	20

Client Sample ID: SB-97-4
Date Collected: 02/23/22 09:44
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:04	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:04	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:04	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:04	1
Aroclor-1248	19000		5000	ug/Kg		03/01/22 17:11	03/08/22 14:10	100
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:04	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:04	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:04	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			03/01/22 17:11	03/06/22 09:04	1
<i>Tetrachloro-m-xylene (Surr)</i>	95		25 - 126			03/01/22 17:11	03/08/22 14:10	100
<i>DCB Decachlorobiphenyl (Surr)</i>	69		20 - 155			03/01/22 17:11	03/06/22 09:04	1
<i>DCB Decachlorobiphenyl (Surr)</i>	110		20 - 155			03/01/22 17:11	03/08/22 14:10	100

Client Sample ID: SB-98-2
Date Collected: 02/23/22 10:45
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Aroclor-1221	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Aroclor-1232	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Aroclor-1242	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Aroclor-1248	5100		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Aroclor-1254	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Aroclor-1260	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Aroclor-1262	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Aroclor-1268	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 14:29	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	73		25 - 126			03/01/22 17:11	03/08/22 14:29	100

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB-98-2
Date Collected: 02/23/22 10:45
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-16
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	147		20 - 155	03/01/22 17:11	03/08/22 14:29	100

Client Sample ID: SB-98-4
Date Collected: 02/23/22 10:45
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-17
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:42	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:42	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:42	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:42	1
Aroclor-1248	1800		500	ug/Kg		03/01/22 17:11	03/08/22 14:48	10
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:42	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:42	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:42	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 09:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	85		25 - 126	03/01/22 17:11	03/06/22 09:42	1
Tetrachloro-m-xylene (Surr)	106		25 - 126	03/01/22 17:11	03/08/22 14:48	10
DCB Decachlorobiphenyl (Surr)	73		20 - 155	03/01/22 17:11	03/06/22 09:42	1
DCB Decachlorobiphenyl (Surr)	103		20 - 155	03/01/22 17:11	03/08/22 14:48	10

Client Sample ID: SB-99-4
Date Collected: 02/23/22 10:15
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 10:21	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 10:21	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 10:21	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 10:21	1
Aroclor-1248	22000		5000	ug/Kg		03/01/22 17:11	03/08/22 15:26	100
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 10:21	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 10:21	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 10:21	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126	03/01/22 17:11	03/06/22 10:21	1
Tetrachloro-m-xylene (Surr)	101		25 - 126	03/01/22 17:11	03/08/22 15:26	100
DCB Decachlorobiphenyl (Surr)	69		20 - 155	03/01/22 17:11	03/06/22 10:21	1
DCB Decachlorobiphenyl (Surr)	102		20 - 155	03/01/22 17:11	03/08/22 15:26	100

Client Sample ID: SB-100-2
Date Collected: 02/23/22 10:28
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100
Aroclor-1221	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100
Aroclor-1232	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100
Aroclor-1242	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB-100-2
Date Collected: 02/23/22 10:28
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	6600		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100
Aroclor-1254	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100
Aroclor-1260	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100
Aroclor-1262	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100
Aroclor-1268	ND		5000	ug/Kg		03/01/22 17:11	03/08/22 15:46	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	63		25 - 126			03/01/22 17:11	03/08/22 15:46	100
<i>DCB Decachlorobiphenyl (Surr)</i>	154		20 - 155			03/01/22 17:11	03/08/22 15:46	100

Client Sample ID: SB-100-4
Date Collected: 02/23/22 10:28
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-23
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:18	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:18	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:18	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:18	1
Aroclor-1248	24000		5000	ug/Kg		03/01/22 17:11	03/08/22 16:11	100
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:18	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:18	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:18	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	83		25 - 126			03/01/22 17:11	03/06/22 11:18	1
<i>Tetrachloro-m-xylene (Surr)</i>	91		25 - 126			03/01/22 17:11	03/08/22 16:11	100
<i>DCB Decachlorobiphenyl (Surr)</i>	69		20 - 155			03/01/22 17:11	03/06/22 11:18	1
<i>DCB Decachlorobiphenyl (Surr)</i>	104		20 - 155			03/01/22 17:11	03/08/22 16:11	100

Client Sample ID: SB-101-2
Date Collected: 02/23/22 11:15
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-25
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Aroclor-1248	850		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	75		25 - 126			03/01/22 17:11	03/06/22 11:37	1
<i>DCB Decachlorobiphenyl (Surr)</i>	68		20 - 155			03/01/22 17:11	03/06/22 11:37	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-101-4
Date Collected: 02/23/22 11:15
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-26
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:56	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:56	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:56	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:56	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:56	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:56	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:56	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 11:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	778	S1+	25 - 126			03/01/22 17:11	03/06/22 11:56	1
DCB Decachlorobiphenyl (Surr)	71		20 - 155			03/01/22 17:11	03/06/22 11:56	1

Client Sample ID: SB-102-2
Date Collected: 02/23/22 11:33
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-28
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Aroclor-1248	120		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 12:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	84		25 - 126			03/01/22 17:11	03/06/22 12:15	1
DCB Decachlorobiphenyl (Surr)	76		20 - 155			03/01/22 17:11	03/06/22 12:15	1

Client Sample ID: SB-102-4
Date Collected: 02/23/22 11:33
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-29
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:27	1
Aroclor-1221	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:27	1
Aroclor-1232	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:27	1
Aroclor-1242	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:27	1
Aroclor-1248	14000		5000	ug/Kg		03/02/22 17:11	03/08/22 08:46	100
Aroclor-1254	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:27	1
Aroclor-1260	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:27	1
Aroclor-1262	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:27	1
Aroclor-1268	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	82		25 - 126			03/02/22 17:11	03/05/22 18:27	1
Tetrachloro-m-xylene (Surr)	114		25 - 126			03/02/22 17:11	03/08/22 08:46	100
DCB Decachlorobiphenyl (Surr)	73		20 - 155			03/02/22 17:11	03/05/22 18:27	1
DCB Decachlorobiphenyl (Surr)	88		20 - 155			03/02/22 17:11	03/08/22 08:46	100

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-103-2
Date Collected: 02/23/22 11:49
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-31
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:46	1
Aroclor-1221	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:46	1
Aroclor-1232	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:46	1
Aroclor-1242	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:46	1
Aroclor-1248	1600		250	ug/Kg		03/02/22 17:11	03/08/22 09:05	5
Aroclor-1254	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:46	1
Aroclor-1260	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:46	1
Aroclor-1262	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:46	1
Aroclor-1268	ND		50	ug/Kg		03/02/22 17:11	03/05/22 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	84		25 - 126			03/02/22 17:11	03/05/22 18:46	1
<i>Tetrachloro-m-xylene (Surr)</i>	93		25 - 126			03/02/22 17:11	03/08/22 09:05	5
<i>DCB Decachlorobiphenyl (Surr)</i>	76		20 - 155			03/02/22 17:11	03/05/22 18:46	1
<i>DCB Decachlorobiphenyl (Surr)</i>	85		20 - 155			03/02/22 17:11	03/08/22 09:05	5

Client Sample ID: SB-103-4
Date Collected: 02/23/22 11:49
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-32
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:05	1
Aroclor-1221	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:05	1
Aroclor-1232	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:05	1
Aroclor-1242	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:05	1
Aroclor-1248	14000		5000	ug/Kg		03/02/22 17:11	03/08/22 09:25	100
Aroclor-1254	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:05	1
Aroclor-1260	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:05	1
Aroclor-1262	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:05	1
Aroclor-1268	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	81		25 - 126			03/02/22 17:11	03/05/22 19:05	1
<i>Tetrachloro-m-xylene (Surr)</i>	99		25 - 126			03/02/22 17:11	03/08/22 09:25	100
<i>DCB Decachlorobiphenyl (Surr)</i>	87		20 - 155			03/02/22 17:11	03/05/22 19:05	1
<i>DCB Decachlorobiphenyl (Surr)</i>	105		20 - 155			03/02/22 17:11	03/08/22 09:25	100

Client Sample ID: SB-104-2
Date Collected: 02/23/22 12:19
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-34
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1
Aroclor-1221	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1
Aroclor-1232	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1
Aroclor-1242	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1
Aroclor-1248	60		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1
Aroclor-1254	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1
Aroclor-1260	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1
Aroclor-1262	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1
Aroclor-1268	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:24	1

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	88		25 - 126	03/02/22 17:11	03/05/22 19:24	1
DCB Decachlorobiphenyl (Surr)	90		20 - 155	03/02/22 17:11	03/05/22 19:24	1

Client Sample ID: SB-104-4
Date Collected: 02/23/22 12:19
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-35
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1
Aroclor-1221	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1
Aroclor-1232	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1
Aroclor-1242	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1
Aroclor-1248	200		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1
Aroclor-1254	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1
Aroclor-1260	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1
Aroclor-1262	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1
Aroclor-1268	ND		50	ug/Kg		03/02/22 17:11	03/05/22 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	109		25 - 126	03/02/22 17:11	03/05/22 19:43	1
DCB Decachlorobiphenyl (Surr)	91		20 - 155	03/02/22 17:11	03/05/22 19:43	1

Client Sample ID: SB-105-2
Date Collected: 02/23/22 12:41
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-37
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1
Aroclor-1221	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1
Aroclor-1232	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1
Aroclor-1242	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1
Aroclor-1248	60		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1
Aroclor-1254	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1
Aroclor-1260	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1
Aroclor-1262	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1
Aroclor-1268	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	93		25 - 126	03/02/22 17:11	03/05/22 20:02	1
DCB Decachlorobiphenyl (Surr)	96		20 - 155	03/02/22 17:11	03/05/22 20:02	1

Client Sample ID: SB-105-4
Date Collected: 02/23/22 12:41
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-38
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1
Aroclor-1221	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1
Aroclor-1232	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1
Aroclor-1242	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1
Aroclor-1248	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1
Aroclor-1254	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1
Aroclor-1260	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1
Aroclor-1262	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1
Aroclor-1268	ND		50	ug/Kg		03/02/22 17:11	03/05/22 20:21	1

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
<i>Tetrachloro-m-xylene (Surr)</i>	96		25 - 126	03/02/22 17:11	03/05/22 20:21	1
<i>DCB Decachlorobiphenyl (Surr)</i>	103		20 - 155	03/02/22 17:11	03/05/22 20:21	1

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Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-95-4
Date Collected: 02/23/22 09:21
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	100000		10000	ug/Kg		03/01/22 17:11	03/08/22 17:08	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	92		25 - 126			03/01/22 17:11	03/08/22 17:08	200
<i>DCB Decachlorobiphenyl (Surr)</i>	149		20 - 155			03/01/22 17:11	03/08/22 17:08	200

Client Sample ID: SB-101-4
Date Collected: 02/23/22 11:15
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-26
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	170000		25000	ug/Kg		03/01/22 17:11	03/08/22 17:27	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	88		25 - 126			03/01/22 17:11	03/08/22 17:27	500
<i>DCB Decachlorobiphenyl (Surr)</i>	105		20 - 155			03/01/22 17:11	03/08/22 17:27	500

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RA

Client Sample ID: SB-99-2
Date Collected: 02/23/22 10:15
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-19
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Aroclor-1248	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/09/22 09:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	102		25 - 126			03/01/22 17:11	03/09/22 09:16	1
DCB Decachlorobiphenyl (Surr)	104		20 - 155			03/01/22 17:11	03/09/22 09:16	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-84970-A-1-D MS	Matrix Spike	83	77
570-84970-A-1-E MSD	Matrix Spike Duplicate	74	69
570-85502-1	SB-93-2	84	77
570-85502-1	SB-93-2	102	91
570-85502-1 MS	SB-93-2	81	78
570-85502-1 MSD	SB-93-2	82	69
570-85502-2	SB-93-4	86	83
570-85502-4	SB-94-2	83	80
570-85502-4	SB-94-2	67	99
570-85502-5	SB-94-4	90	77
570-85502-7	SB-95-2	78	81
570-85502-7	SB-95-2	91	111
570-85502-8	SB-95-4	80	77
570-85502-8 - DL	SB-95-4	92	149
570-85502-10	SB-96-2	97	82
570-85502-11	SB-96-4	73	71
570-85502-11	SB-96-4	101	107
570-85502-13	SB-97-2	65	58
570-85502-13	SB-97-2	89	89
570-85502-14	SB-97-4	71	69
570-85502-14	SB-97-4	95	110
570-85502-16	SB-98-2	73	147
570-85502-17	SB-98-4	85	73
570-85502-17	SB-98-4	106	103
570-85502-19 - RA	SB-99-2	102	104
570-85502-20	SB-99-4	78	69
570-85502-20	SB-99-4	101	102
570-85502-22	SB-100-2	63	154
570-85502-23	SB-100-4	83	69
570-85502-23	SB-100-4	91	104
570-85502-25	SB-101-2	75	68
570-85502-26	SB-101-4	778 S1+	71
570-85502-26 - DL	SB-101-4	88	105
570-85502-28	SB-102-2	84	76
570-85502-29	SB-102-4	82	73
570-85502-29	SB-102-4	114	88
570-85502-31	SB-103-2	84	76
570-85502-31	SB-103-2	93	85
570-85502-32	SB-103-4	81	87
570-85502-32	SB-103-4	99	105
570-85502-34	SB-104-2	88	90
570-85502-35	SB-104-4	109	91
570-85502-37	SB-105-2	93	96
570-85502-38	SB-105-4	96	103
LCS 570-216388/2-A	Lab Control Sample	98	89
LCS 570-216638/2-A	Lab Control Sample	108	116
LCSD 570-216388/3-A	Lab Control Sample Dup	103	95
LCSD 570-216638/3-A	Lab Control Sample Dup	108	115
MB 570-216388/1-A	Method Blank	98	89

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (25-126)	DCB1 (20-155)
MB 570-216638/1-A	Method Blank	101	109

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-216388/1-A
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216388

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1
Aroclor-1221	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1
Aroclor-1232	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1
Aroclor-1242	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1
Aroclor-1248	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1
Aroclor-1254	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1
Aroclor-1260	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1
Aroclor-1262	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1
Aroclor-1268	ND		50	ug/Kg		03/01/22 17:11	03/06/22 04:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	98		25 - 126	03/01/22 17:11	03/06/22 04:37	1
DCB Decachlorobiphenyl (Surr)	89		20 - 155	03/01/22 17:11	03/06/22 04:37	1

Lab Sample ID: LCS 570-216388/2-A
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	100	111.4		ug/Kg		111	50 - 142
Aroclor-1260	100	96.12		ug/Kg		96	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	98		25 - 126
DCB Decachlorobiphenyl (Surr)	89		20 - 155

Lab Sample ID: LCSD 570-216388/3-A
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216388

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor-1016	100	122.3		ug/Kg		122	50 - 142	9	30
Aroclor-1260	100	103.0		ug/Kg		103	50 - 150	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	103		25 - 126
DCB Decachlorobiphenyl (Surr)	95		20 - 155

Lab Sample ID: 570-85502-1 MS
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: SB-93-2
Prep Type: Total/NA
Prep Batch: 216388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	ND	F1	99.8	733.2	F1	ug/Kg		735	20 - 175
Aroclor-1260	ND	F2 F1	99.8	509.8	F1	ug/Kg		511	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-85502-1 MS
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: SB-93-2
Prep Type: Total/NA
Prep Batch: 216388

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	81		25 - 126
DCB Decachlorobiphenyl (Surr)	78		20 - 155

Lab Sample ID: 570-85502-1 MSD
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: SB-93-2
Prep Type: Total/NA
Prep Batch: 216388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aroclor-1016	ND	F1	100	556.6	F1	ug/Kg		557	20 - 175	27	40	
Aroclor-1260	ND	F2 F1	100	212.7	F1 F2	ug/Kg		213	20 - 180	82	40	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	82		25 - 126
DCB Decachlorobiphenyl (Surr)	69		20 - 155

Lab Sample ID: MB 570-216638/1-A
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216638

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1
Aroclor-1221	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1
Aroclor-1232	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1
Aroclor-1242	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1
Aroclor-1248	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1
Aroclor-1254	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1
Aroclor-1260	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1
Aroclor-1262	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1
Aroclor-1268	ND		50	ug/Kg		03/02/22 14:15	03/05/22 16:32	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	101		25 - 126	03/02/22 14:15	03/05/22 16:32	1
DCB Decachlorobiphenyl (Surr)	109		20 - 155	03/02/22 14:15	03/05/22 16:32	1

Lab Sample ID: LCS 570-216638/2-A
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216638

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Aroclor-1016	100	118.5		ug/Kg		118	50 - 142	
Aroclor-1260	100	108.9		ug/Kg		109	50 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	108		25 - 126
DCB Decachlorobiphenyl (Surr)	116		20 - 155

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 570-216638/3-A
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Aroclor-1016	100	122.9		ug/Kg		123	50 - 142	4	30	
Aroclor-1260	100	110.4		ug/Kg		110	50 - 150	1	30	
LCSD LCSD										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	108		25 - 126							
DCB Decachlorobiphenyl (Surr)	115		20 - 155							

Lab Sample ID: 570-84970-A-1-D MS
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 216638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Aroclor-1016	ND		99.3	95.54		ug/Kg		96	20 - 175			
Aroclor-1260	ND		99.3	72.86		ug/Kg		73	20 - 180			
MS MS												
Surrogate	%Recovery	Qualifier	Limits									
Tetrachloro-m-xylene (Surr)	83		25 - 126									
DCB Decachlorobiphenyl (Surr)	77		20 - 155									

Lab Sample ID: 570-84970-A-1-E MSD
Matrix: Solid
Analysis Batch: 217115

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 216638

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Aroclor-1016	ND		99.2	81.53		ug/Kg		82	20 - 175	16	40	
Aroclor-1260	ND		99.2	68.29		ug/Kg		69	20 - 180	6	40	
MSD MSD												
Surrogate	%Recovery	Qualifier	Limits									
Tetrachloro-m-xylene (Surr)	74		25 - 126									
DCB Decachlorobiphenyl (Surr)	69		20 - 155									

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

GC Semi VOA

Cleanup Batch: 215118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-84970-A-1-D MS	Matrix Spike	Total/NA	Solid	Homogenize Prep	
570-84970-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	Homogenize Prep	

Prep Batch: 216388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85502-1	SB-93-2	Total/NA	Solid	3546	
570-85502-2	SB-93-4	Total/NA	Solid	3546	
570-85502-4	SB-94-2	Total/NA	Solid	3546	
570-85502-5	SB-94-4	Total/NA	Solid	3546	
570-85502-7	SB-95-2	Total/NA	Solid	3546	
570-85502-8 - DL	SB-95-4	Total/NA	Solid	3546	
570-85502-8	SB-95-4	Total/NA	Solid	3546	
570-85502-10	SB-96-2	Total/NA	Solid	3546	
570-85502-11	SB-96-4	Total/NA	Solid	3546	
570-85502-13	SB-97-2	Total/NA	Solid	3546	
570-85502-14	SB-97-4	Total/NA	Solid	3546	
570-85502-16	SB-98-2	Total/NA	Solid	3546	
570-85502-17	SB-98-4	Total/NA	Solid	3546	
570-85502-19 - RA	SB-99-2	Total/NA	Solid	3546	
570-85502-20	SB-99-4	Total/NA	Solid	3546	
570-85502-22	SB-100-2	Total/NA	Solid	3546	
570-85502-23	SB-100-4	Total/NA	Solid	3546	
570-85502-25	SB-101-2	Total/NA	Solid	3546	
570-85502-26 - DL	SB-101-4	Total/NA	Solid	3546	
570-85502-26	SB-101-4	Total/NA	Solid	3546	
570-85502-28	SB-102-2	Total/NA	Solid	3546	
MB 570-216388/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-216388/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-216388/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-85502-1 MS	SB-93-2	Total/NA	Solid	3546	
570-85502-1 MSD	SB-93-2	Total/NA	Solid	3546	

Prep Batch: 216638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85502-29	SB-102-4	Total/NA	Solid	3546	
570-85502-31	SB-103-2	Total/NA	Solid	3546	
570-85502-32	SB-103-4	Total/NA	Solid	3546	
570-85502-34	SB-104-2	Total/NA	Solid	3546	
570-85502-35	SB-104-4	Total/NA	Solid	3546	
570-85502-37	SB-105-2	Total/NA	Solid	3546	
570-85502-38	SB-105-4	Total/NA	Solid	3546	
MB 570-216638/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-216638/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-216638/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-84970-A-1-D MS	Matrix Spike	Total/NA	Solid	3546	215118
570-84970-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	215118

Analysis Batch: 217115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85502-1	SB-93-2	Total/NA	Solid	8082	216388

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QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

GC Semi VOA (Continued)

Analysis Batch: 217115 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85502-2	SB-93-4	Total/NA	Solid	8082	216388
570-85502-4	SB-94-2	Total/NA	Solid	8082	216388
570-85502-5	SB-94-4	Total/NA	Solid	8082	216388
570-85502-7	SB-95-2	Total/NA	Solid	8082	216388
570-85502-8	SB-95-4	Total/NA	Solid	8082	216388
570-85502-10	SB-96-2	Total/NA	Solid	8082	216388
570-85502-11	SB-96-4	Total/NA	Solid	8082	216388
570-85502-13	SB-97-2	Total/NA	Solid	8082	216388
570-85502-14	SB-97-4	Total/NA	Solid	8082	216388
570-85502-17	SB-98-4	Total/NA	Solid	8082	216388
570-85502-20	SB-99-4	Total/NA	Solid	8082	216388
570-85502-23	SB-100-4	Total/NA	Solid	8082	216388
570-85502-25	SB-101-2	Total/NA	Solid	8082	216388
570-85502-26	SB-101-4	Total/NA	Solid	8082	216388
570-85502-28	SB-102-2	Total/NA	Solid	8082	216388
570-85502-29	SB-102-4	Total/NA	Solid	8082	216638
570-85502-31	SB-103-2	Total/NA	Solid	8082	216638
570-85502-32	SB-103-4	Total/NA	Solid	8082	216638
570-85502-34	SB-104-2	Total/NA	Solid	8082	216638
570-85502-35	SB-104-4	Total/NA	Solid	8082	216638
570-85502-37	SB-105-2	Total/NA	Solid	8082	216638
570-85502-38	SB-105-4	Total/NA	Solid	8082	216638
MB 570-216388/1-A	Method Blank	Total/NA	Solid	8082	216388
MB 570-216638/1-A	Method Blank	Total/NA	Solid	8082	216638
LCS 570-216388/2-A	Lab Control Sample	Total/NA	Solid	8082	216388
LCS 570-216638/2-A	Lab Control Sample	Total/NA	Solid	8082	216638
LCSD 570-216388/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	216388
LCSD 570-216638/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	216638
570-84970-A-1-D MS	Matrix Spike	Total/NA	Solid	8082	216638
570-84970-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	216638
570-85502-1 MS	SB-93-2	Total/NA	Solid	8082	216388
570-85502-1 MSD	SB-93-2	Total/NA	Solid	8082	216388

Analysis Batch: 217841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85502-1	SB-93-2	Total/NA	Solid	8082	216388
570-85502-4	SB-94-2	Total/NA	Solid	8082	216388
570-85502-7	SB-95-2	Total/NA	Solid	8082	216388
570-85502-8 - DL	SB-95-4	Total/NA	Solid	8082	216388
570-85502-11	SB-96-4	Total/NA	Solid	8082	216388
570-85502-13	SB-97-2	Total/NA	Solid	8082	216388
570-85502-14	SB-97-4	Total/NA	Solid	8082	216388
570-85502-16	SB-98-2	Total/NA	Solid	8082	216388
570-85502-17	SB-98-4	Total/NA	Solid	8082	216388
570-85502-20	SB-99-4	Total/NA	Solid	8082	216388
570-85502-22	SB-100-2	Total/NA	Solid	8082	216388
570-85502-23	SB-100-4	Total/NA	Solid	8082	216388
570-85502-26 - DL	SB-101-4	Total/NA	Solid	8082	216388
570-85502-29	SB-102-4	Total/NA	Solid	8082	216638
570-85502-31	SB-103-2	Total/NA	Solid	8082	216638
570-85502-32	SB-103-4	Total/NA	Solid	8082	216638

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QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

GC Semi VOA

Analysis Batch: 218156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85502-19 - RA	SB-99-2	Total/NA	Solid	8082	216388

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Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-93-2

Date Collected: 02/23/22 08:52

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 06:13	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			20.01 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		10			217841	03/08/22 11:38	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-93-4

Date Collected: 02/23/22 08:52

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.00 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 06:32	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-94-2

Date Collected: 02/23/22 09:08

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.92 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 06:51	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			19.92 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 12:16	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-94-4

Date Collected: 02/23/22 09:08

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.02 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 07:10	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-95-2

Date Collected: 02/23/22 09:21

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.99 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 07:29	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-95-2

Lab Sample ID: 570-85502-7

Date Collected: 02/23/22 09:21

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.99 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 12:35	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-95-4

Lab Sample ID: 570-85502-8

Date Collected: 02/23/22 09:21

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.07 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 07:48	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546	DL		20.07 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082	DL	200			217841	03/08/22 17:08	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-96-2

Lab Sample ID: 570-85502-10

Date Collected: 02/23/22 09:32

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.00 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 08:07	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-96-4

Lab Sample ID: 570-85502-11

Date Collected: 02/23/22 09:32

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 08:26	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			19.98 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		20			217841	03/08/22 13:13	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-97-2

Lab Sample ID: 570-85502-13

Date Collected: 02/23/22 09:44

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.97 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 08:45	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-97-2

Lab Sample ID: 570-85502-13

Date Collected: 02/23/22 09:44

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.97 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		20			217841	03/08/22 13:32	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-97-4

Lab Sample ID: 570-85502-14

Date Collected: 02/23/22 09:44

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 09:04	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			20.05 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 14:10	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-98-2

Lab Sample ID: 570-85502-16

Date Collected: 02/23/22 10:45

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 14:29	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-98-4

Lab Sample ID: 570-85502-17

Date Collected: 02/23/22 10:45

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.00 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 09:42	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			20.00 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		10			217841	03/08/22 14:48	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-99-2

Lab Sample ID: 570-85502-19

Date Collected: 02/23/22 10:15

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	RA		20.09 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082	RA	1			218156	03/09/22 09:16	UHHN	ECL 4
Instrument ID: GC64A										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-99-4

Lab Sample ID: 570-85502-20

Date Collected: 02/23/22 10:15

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 10:21	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			20.01 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 15:26	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-100-2

Lab Sample ID: 570-85502-22

Date Collected: 02/23/22 10:28

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.10 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 15:46	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-100-4

Lab Sample ID: 570-85502-23

Date Collected: 02/23/22 10:28

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 11:18	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			20.01 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 16:11	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-101-2

Lab Sample ID: 570-85502-25

Date Collected: 02/23/22 11:15

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.95 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 11:37	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-101-4

Lab Sample ID: 570-85502-26

Date Collected: 02/23/22 11:15

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 11:56	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-101-4

Lab Sample ID: 570-85502-26

Date Collected: 02/23/22 11:15

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		20.01 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082	DL	500			217841	03/08/22 17:27	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-102-2

Lab Sample ID: 570-85502-28

Date Collected: 02/23/22 11:33

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.93 g	10 mL	216388	03/01/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/06/22 12:15	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-102-4

Lab Sample ID: 570-85502-29

Date Collected: 02/23/22 11:33

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/05/22 18:27	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			19.98 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 08:46	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-103-2

Lab Sample ID: 570-85502-31

Date Collected: 02/23/22 11:49

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.00 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/05/22 18:46	UHHN	ECL 1
Instrument ID: GC31										
Total/NA	Prep	3546			20.00 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		5			217841	03/08/22 09:05	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-103-4

Lab Sample ID: 570-85502-32

Date Collected: 02/23/22 11:49

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.93 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/05/22 19:05	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Client Sample ID: SB-103-4

Lab Sample ID: 570-85502-32

Date Collected: 02/23/22 11:49

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.93 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		100			217841	03/08/22 09:25	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-104-2

Lab Sample ID: 570-85502-34

Date Collected: 02/23/22 12:19

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.02 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/05/22 19:24	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-104-4

Lab Sample ID: 570-85502-35

Date Collected: 02/23/22 12:19

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.94 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/05/22 19:43	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-105-2

Lab Sample ID: 570-85502-37

Date Collected: 02/23/22 12:41

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.02 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/05/22 20:02	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-105-4

Lab Sample ID: 570-85502-38

Date Collected: 02/23/22 12:41

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.10 g	10 mL	216638	03/02/22 17:11	USUL	ECL 1
Total/NA	Analysis	8082		1			217115	03/05/22 20:21	UHHN	ECL 1
Instrument ID: GC31										

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



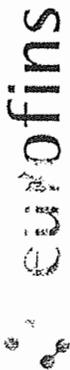
Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-85502-1	SB-93-2	Solid	02/23/22 08:52	02/23/22 14:36
570-85502-2	SB-93-4	Solid	02/23/22 08:52	02/23/22 14:36
570-85502-4	SB-94-2	Solid	02/23/22 09:08	02/23/22 14:36
570-85502-5	SB-94-4	Solid	02/23/22 09:08	02/23/22 14:36
570-85502-7	SB-95-2	Solid	02/23/22 09:21	02/23/22 14:36
570-85502-8	SB-95-4	Solid	02/23/22 09:21	02/23/22 14:36
570-85502-10	SB-96-2	Solid	02/23/22 09:32	02/23/22 14:36
570-85502-11	SB-96-4	Solid	02/23/22 09:32	02/23/22 14:36
570-85502-13	SB-97-2	Solid	02/23/22 09:44	02/23/22 14:36
570-85502-14	SB-97-4	Solid	02/23/22 09:44	02/23/22 14:36
570-85502-16	SB-98-2	Solid	02/23/22 10:45	02/23/22 14:36
570-85502-17	SB-98-4	Solid	02/23/22 10:45	02/23/22 14:36
570-85502-19	SB-99-2	Solid	02/23/22 10:15	02/23/22 14:36
570-85502-20	SB-99-4	Solid	02/23/22 10:15	02/23/22 14:36
570-85502-22	SB-100-2	Solid	02/23/22 10:28	02/23/22 14:36
570-85502-23	SB-100-4	Solid	02/23/22 10:28	02/23/22 14:36
570-85502-25	SB-101-2	Solid	02/23/22 11:15	02/23/22 14:36
570-85502-26	SB-101-4	Solid	02/23/22 11:15	02/23/22 14:36
570-85502-28	SB-102-2	Solid	02/23/22 11:33	02/23/22 14:36
570-85502-29	SB-102-4	Solid	02/23/22 11:33	02/23/22 14:36
570-85502-31	SB-103-2	Solid	02/23/22 11:49	02/23/22 14:36
570-85502-32	SB-103-4	Solid	02/23/22 11:49	02/23/22 14:36
570-85502-34	SB-104-2	Solid	02/23/22 12:19	02/23/22 14:36
570-85502-35	SB-104-4	Solid	02/23/22 12:19	02/23/22 14:36
570-85502-37	SB-105-2	Solid	02/23/22 12:41	02/23/22 14:36
570-85502-38	SB-105-4	Solid	02/23/22 12:41	02/23/22 14:36

85502



Calscience

CHAIN OF CUSTODY RECORD

DATE 2/23/2022

PAGE 2 OF 4

2841 Dow Avenue, Suite 200 Tustin, CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT: **Grossyntec Consultants**

ADDRESS: **16644 W. Bernardo Dr. Suite 301**

CITY: **San Diego** STATE: **CA** ZIP: **92127**

TEL: **619-309-9549** E-MAIL: **Brockwell@grossyntec.com**

TURNAROUND: 24 HR 48 HR 72 HR 5 DAYS STANDARD

COE GLOBAL ID

LABORATORY PROJECT NO: **1000341133**

CLIENT PROJECT NAME / NUMBER: **Batavia/SC1173-17**

PROJECT CONTACT: **Brian Brockwell Brockwell@grossyntec.com B.Thullen**

SAMPLER(S) (PRINT): **B.Thullen**

PO NO: **1000341133**

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT	LOG CODE		Field Filtered	TPH (g) <input type="checkbox"/> GRO	TPH (d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(V) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 2186	Holds			
		DATE	TIME			Preserved	Unpreserved																			
11	SB-96-4	2/23/22	0932	S	1		X												X							
12	SB-96-6		0935																X							
13	SB-97-2		0944																X							
14	SB-97-4		0944																X							
15	SB-97-6		0947																X							
16	SB-98-2		1045																X							
17	SB-98-4		1045																X							
18	SB-98-6		1048																X							
19	SB-99-2		1015																X							
20	SB-99-4		1015																X							

Received by (Signature/Affiliation): *Brian Brockwell*

Received by (Signature/Affiliation):

Received by (Signature/Affiliation):

Date: 2/23/2022 Time: 1430

01/28/22 Revision 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

85502

euofins

Calscience

CHAIN OF CUSTODY RECORD

DATE 2/23/22

PAGE 4 OF 4

2841 Dow Avenue, Suite 100, Tustin, CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT

CLIENT PROJECT NAME / NUMBER: Botavia/SC1173-17 P.O. NO: 1000 34/1133

PROJECT CONTACT: Brian Rockwell Brockwell@ecosyntec.com SAMPLER(S) (PRINT): B. Theilen

ADDRESS: 116644 W. Bernardo Dr. Suite 301 STATE: CA ZIP: 92127

CITY: San Diego E-MAIL: Brockwell@ecosyntec.com

TEL: 619-309-9549

TURNAROUND: SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COF GLOB ID: _____

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT	LOG CODE		Field Filtered	TPH (g) <input type="checkbox"/> GRO	TPH (d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs. <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 2186	Time		
		DATE	TIME			Unpreserved	Preserved																		
31	SB-103-2	2/23/22	1419	S	1		X												X						
32	SB-103-4		1419																X						
33	SB-103-6		1553																X						
34	SB-104-2		16121																X						
35	SB-104-4		17221																X						
36	SB-104-6		17221																X						
37	SB-105-2		1741																X						
38	SB-105-4		1741																X						
39	SB-105-6		1746																X						

Relinquished by (Signature/Affiliation): Brian Rockwell

Relinquished by (Signature/Affiliation): _____

Relinquished by (Signature/Affiliation): _____

Received by (Signature/Affiliation): _____ Date: 2/23/22 Time: 1436

Received by (Signature/Affiliation): _____ Date: _____ Time: _____

Received by (Signature/Affiliation): _____ Date: _____ Time: _____



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-85502-1

Login Number: 85502
List Number: 1
Creator: Vitente, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-79979-4
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
3/3/2022 8:44:42 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Job ID: 570-79979-4

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-79979-4

Comments

No additional comments.

Receipt

The samples were received on 12/22/2021 10:48 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Receipt Exceptions

The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): SB-86-2 (570-79979-21), SB-86-4 (570-79979-22) and SB-86-6 (570-79979-23)

GC Semi VOA

Method 8082: The following samples were prepared outside of preparation holding time due to client request for analysis past holding time : SB-88-6 (570-79979-9) and SB-89-6 (570-79979-12).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Client Sample ID: SB-88-6

Lab Sample ID: 570-79979-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	3200	H p	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-89-6

Lab Sample ID: 570-79979-12

No Detections.

- 1
- 2
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This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-88-6
Date Collected: 12/22/21 08:00
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 08:44	1
Aroclor-1221	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 08:44	1
Aroclor-1232	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 08:44	1
Aroclor-1242	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 08:44	1
Aroclor-1248	3200	H p	500	ug/Kg	-	02/22/22 15:47	03/02/22 15:07	10
Aroclor-1254	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 08:44	1
Aroclor-1260	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 08:44	1
Aroclor-1262	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 08:44	1
Aroclor-1268	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 08:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	83		25 - 126			02/22/22 15:47	03/02/22 08:44	1
<i>Tetrachloro-m-xylene (Surr)</i>	81		25 - 126			02/22/22 15:47	03/02/22 15:07	10
<i>DCB Decachlorobiphenyl (Surr)</i>	92		20 - 155			02/22/22 15:47	03/02/22 08:44	1
<i>DCB Decachlorobiphenyl (Surr)</i>	100		20 - 155			02/22/22 15:47	03/02/22 15:07	10

Client Sample ID: SB-89-6
Date Collected: 12/22/21 08:26
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Aroclor-1221	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Aroclor-1232	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Aroclor-1242	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Aroclor-1248	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Aroclor-1254	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Aroclor-1260	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Aroclor-1262	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Aroclor-1268	ND	H	50	ug/Kg	-	02/22/22 15:47	03/02/22 09:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	84		25 - 126			02/22/22 15:47	03/02/22 09:03	1
<i>DCB Decachlorobiphenyl (Surr)</i>	87		20 - 155			02/22/22 15:47	03/02/22 09:03	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-79979-9	SB-88-6	83	92
570-79979-9	SB-88-6	81	100
570-79979-12	SB-89-6	84	87
570-84924-G-37-C MS	Matrix Spike	97	104
570-84924-G-37-D MSD	Matrix Spike Duplicate	104	96

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: 570-84924-G-37-C MS

Matrix: Solid
Analysis Batch: 216476

Client Sample ID: Matrix Spike

Prep Type: Total/NA
Prep Batch: 214785

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Aroclor-1016	ND	F2 F1	99.2	123.5		ug/Kg		124		20 - 175
Aroclor-1260	ND		99.2	117.0		ug/Kg		118		20 - 180
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene (Surr)	97		25 - 126							
DCB Decachlorobiphenyl (Surr)	104		20 - 155							

Lab Sample ID: 570-84924-G-37-D MSD

Matrix: Solid
Analysis Batch: 216476

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA
Prep Batch: 214785

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Aroclor-1016	ND	F2 F1	99.5	290.5	F1 F2	ug/Kg		292		20 - 175	81		40
Aroclor-1260	ND		99.5	141.0		ug/Kg		142		20 - 180	19		40
MSD MSD													
Surrogate	%Recovery	Qualifier	Limits										
Tetrachloro-m-xylene (Surr)	104		25 - 126										
DCB Decachlorobiphenyl (Surr)	96		20 - 155										

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

GC Semi VOA

Prep Batch: 214785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-9	SB-88-6	Total/NA	Solid	3546	
570-79979-12	SB-89-6	Total/NA	Solid	3546	
570-84924-G-37-C MS	Matrix Spike	Total/NA	Solid	3546	
570-84924-G-37-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 216476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-9	SB-88-6	Total/NA	Solid	8082	214785
570-79979-9	SB-88-6	Total/NA	Solid	8082	214785
570-79979-12	SB-89-6	Total/NA	Solid	8082	214785
570-84924-G-37-C MS	Matrix Spike	Total/NA	Solid	8082	214785
570-84924-G-37-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	214785

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Client Sample ID: SB-88-6

Lab Sample ID: 570-79979-9

Date Collected: 12/22/21 08:00

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.99 g	10 mL	214785	02/22/22 15:47	USUL	ECL 1
Total/NA	Analysis	8082		1			216476	03/02/22 08:44	UHNN	ECL 4
Instrument ID: GC64A										
Total/NA	Prep	3546			19.99 g	10 mL	214785	02/22/22 15:47	USUL	ECL 1
Total/NA	Analysis	8082		10			216476	03/02/22 15:07	UHNN	ECL 4
Instrument ID: GC64A										

Client Sample ID: SB-89-6

Lab Sample ID: 570-79979-12

Date Collected: 12/22/21 08:26

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	214785	02/22/22 15:47	USUL	ECL 1
Total/NA	Analysis	8082		1			216476	03/02/22 09:03	UHNN	ECL 4
Instrument ID: GC64A										

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

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Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-79979-9	SB-88-6	Solid	12/22/21 08:00	12/22/21 10:48
570-79979-12	SB-89-6	Solid	12/22/21 08:26	12/22/21 10:48

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Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Monday, February 21, 2022 9:17 AM
To: Nowak, Stephen
Subject: RE: Eurofins Calscience report and EDD files from 570-79979-3 Batavia / SC1123/13

EXTERNAL EMAIL*

Thanks Steve! Can you please run the 6 foot samples for 88 and 89 as well?

Thanks,

-Brian

From: Stephen Nowak <Stephen.Nowak@eurofinset.com>
Sent: Monday, February 21, 2022 8:56 AM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>
Subject: Eurofins Calscience report and EDD files from 570-79979-3 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hello,

Attached please find the report and EDD files for job 570-79979-3; Batavia / SC1123/13

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

Eurofins Calscience
Phone: 714-895-5494

E-mail: Stephen.Nowak@eurofinset.com
www.eurofinsus.com/env



79979



Calscience



7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_sales@eurofins.com or call us

CHAIN OF CUSTODY RECORD

DATE 12/22/21

PAGE 1 OF 3

570-79979 Chain of Custody

LABORATORY CLIENT: **Geosyntec Consultants**
 ADDRESS: **16644 West Bernardo Drive**
 CITY: **San Diego** STATE: **Ca** ZIP: **92127**
 TEL: **(619) 309-9549** EMAIL: **Brockwell@geosyntec.com**
 CLIENT PROJECT NAME / NUMBER: **SC1123/13** P O NO: **1 00030960**
 PROJECT CONTACT: **Brian Rockwell** SAMPLER(S): (PRINT) **Emily Imperato**

REQUESTED ANALYSES
 Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	LOG CODE		
		DATE	TIME			Unpreserved	Preserved	Field Filtered
1	SB-85-2	12/22/21	0715	Soil	1	X		
2	SB-85-4		0716					
3	SB-86-6		0716					
4	SB-87-2		0732					
5	SB-87-4		0732					
6	SB-87-6		0734					
7	SB-88-2		0758					
8	SB-88-4		0758					
9	SB-88-6		0800					
10	SB-89-2		0825					

RECEIVED BY (Signature/Affiliation): *[Signature]* Date: 12/22/21 Time: 1048
 RECEIVED BY (Signature/Affiliation): *[Signature]* Date: Date Time
 RECEIVED BY (Signature/Affiliation): Date Date Time

2-0/2-9 JCF
 06/02/14 Revision



Calscience

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us25_sales@eurofins.com or call us

CHAIN OF CUSTODY RECORD

DATE 12/22/21

PAGE 2 OF 3

LABORATORY CLIENT: **Geosyntec Consultants**
 ADDRESS: **16644 West Bernardo Drive**
 CITY: **San Diego** STATE: **Ca** ZIP: **92127**
 TEL: **(619) 309-9549** EMAIL: **Brockwell@geosyntec.com**

CLIENT PROJECT NAME / NUMBER: **SC1123/13**
 PROJECT CONTACT: **Brian Rockwell**

P.O. NO: **100030960**
 SAMPLER(S): (PRINT) **Emily Imperato**

REQUESTED ANALYSES
 Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	Field Filtered	Preserved	Unpreserved	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	Oxygenates (8260)	VOCs (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	C(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	HOLD		
		DATE	TIME																				
11	SB-89-4	12/22/21	0825	SO11	1	X																	
12	SB-89-6		0826																				
13	SB-90-2		0839																				
14	SB-90-4		0839																				
	SB-90-6 - EI		0849																				
15	SB-91-2		0849																				
16	SB-91-4		0849																				
17	SB-91-6		0855																				
18	SB-92-2		0859																				
19	SB-92-4		0906																				

Received by (Signature) *[Signature]* Date 12/22/21 Time 1048
 Received by (Signature/Affiliation) *[Signature]*
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 Received by (Signature/Affiliation)

06/02/14 Revision
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79979

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-79979-4

Login Number: 79979

List Number: 1

Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-79979-2
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
1/20/2022 8:50:04 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Job ID: 570-79979-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-79979-2

Comments

No additional comments.

Receipt

The samples were received on 12/22/2021 10:48 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Receipt Exceptions

The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): SB-86-2 (570-79979-21), SB-86-4 (570-79979-22) and SB-86-6 (570-79979-23)

GC Semi VOA

Method 8082: The following samples were analyzed outside of analytical holding time SB-85-2 (570-79979-1), SB-85-4 (570-79979-2), SB-87-2 (570-79979-4), SB-87-4 (570-79979-5), SB-90-2 (570-79979-13), SB-90-4 (570-79979-14), SB-91-4 (570-79979-16), SB-92-6 (570-79979-20), SB-86-2 (570-79979-21) and SB-86-4 (570-79979-22).

Method 8082: The following samples were prepared outside of preparation holding time : SB-85-2 (570-79979-1), SB-85-4 (570-79979-2), SB-87-2 (570-79979-4), SB-87-4 (570-79979-5), SB-90-4 (570-79979-14) and SB-91-2 (570-79979-15).

Method 8082: The following samples were prepared outside of preparation holding time due to : SB-87-4 (570-79979-5) and SB-90-4 (570-79979-14).

Method 8082: The following sample was prepared outside of preparation holding time : SB-91-2 (570-79979-15).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples were prepared outside of preparation holding time per change order requested: SB-85-2 (570-79979-1), SB-85-4 (570-79979-2), SB-87-2 (570-79979-4), SB-87-4 (570-79979-5), SB-90-2 (570-79979-13), SB-90-4 (570-79979-14), SB-91-2 (570-79979-15), SB-91-4 (570-79979-16), SB-92-6 (570-79979-20), SB-86-2 (570-79979-21) and SB-86-4 (570-79979-22). Method 8082.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Client Sample ID: SB-85-2

Lab Sample ID: 570-79979-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	7600	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-85-4

Lab Sample ID: 570-79979-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	1900	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-87-2

Lab Sample ID: 570-79979-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	1700	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-87-4

Lab Sample ID: 570-79979-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	7700	H	2500	ug/Kg	50		8082	Total/NA

Client Sample ID: SB-90-2

Lab Sample ID: 570-79979-13

No Detections.

Client Sample ID: SB-90-4

Lab Sample ID: 570-79979-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	13000	H	2500	ug/Kg	50		8082	Total/NA

Client Sample ID: SB-91-2

Lab Sample ID: 570-79979-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1900	H p	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-91-4

Lab Sample ID: 570-79979-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	380	H	50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-92-6

Lab Sample ID: 570-79979-20

No Detections.

Client Sample ID: SB-86-2

Lab Sample ID: 570-79979-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	160	H	50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-86-4

Lab Sample ID: 570-79979-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	220	H	50	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-85-2
Date Collected: 12/22/21 07:15
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:16	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:16	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:16	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:16	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:16	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:16	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:16	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	69		25 - 126	01/12/22 15:34	01/13/22 17:16	1
DCB Decachlorobiphenyl (Surr)	66		20 - 155	01/12/22 15:34	01/13/22 17:16	1

Client Sample ID: SB-85-4
Date Collected: 12/22/21 07:16
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:34	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:34	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:34	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:34	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:34	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:34	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:34	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	79		25 - 126	01/12/22 15:34	01/13/22 17:34	1
DCB Decachlorobiphenyl (Surr)	71		20 - 155	01/12/22 15:34	01/13/22 17:34	1

Client Sample ID: SB-87-2
Date Collected: 12/22/21 07:32
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:52	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:52	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:52	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:52	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:52	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:52	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:52	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126	01/12/22 15:34	01/13/22 17:52	1
DCB Decachlorobiphenyl (Surr)	74		20 - 155	01/12/22 15:34	01/13/22 17:52	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-90-2
Date Collected: 12/22/21 08:39
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Aroclor-1248	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	84		25 - 126			01/12/22 15:34	01/13/22 18:28	1
DCB Decachlorobiphenyl (Surr)	84		20 - 155			01/12/22 15:34	01/13/22 18:28	1

Client Sample ID: SB-91-2
Date Collected: 12/22/21 08:49
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	1900	H p	500	ug/Kg		01/12/22 15:34	01/19/22 09:35	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	51		25 - 126			01/12/22 15:34	01/19/22 09:35	10
DCB Decachlorobiphenyl (Surr)	80		20 - 155			01/12/22 15:34	01/19/22 09:35	10

Client Sample ID: SB-91-4
Date Collected: 12/22/21 08:49
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Aroclor-1248	380	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			01/12/22 15:34	01/13/22 19:22	1
DCB Decachlorobiphenyl (Surr)	58		20 - 155			01/12/22 15:34	01/13/22 19:22	1

Client Sample ID: SB-92-6
Date Collected: 12/22/21 09:10
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1
Aroclor-1248	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Client Sample ID: SB-92-6
Date Collected: 12/22/21 09:10
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-20
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		25 - 126			01/12/22 15:34	01/13/22 19:40	1
DCB Decachlorobiphenyl (Surr)	74		20 - 155			01/12/22 15:34	01/13/22 19:40	1

Client Sample ID: SB-86-2
Date Collected: 12/22/21 00:01
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-21
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Aroclor-1248	160	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	65		25 - 126			01/12/22 15:34	01/13/22 19:58	1
DCB Decachlorobiphenyl (Surr)	66		20 - 155			01/12/22 15:34	01/13/22 19:58	1

Client Sample ID: SB-86-4
Date Collected: 12/22/21 00:01
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-22
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Aroclor-1248	220	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/13/22 20:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	64		25 - 126			01/12/22 15:34	01/13/22 20:16	1
DCB Decachlorobiphenyl (Surr)	66		20 - 155			01/12/22 15:34	01/13/22 20:16	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-85-2
Date Collected: 12/22/21 07:15
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	7600	H	500	ug/Kg		01/12/22 15:34	01/14/22 20:05	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		25 - 126			01/12/22 15:34	01/14/22 20:05	10
DCB Decachlorobiphenyl (Surr)	80		20 - 155			01/12/22 15:34	01/14/22 20:05	10

Client Sample ID: SB-85-4
Date Collected: 12/22/21 07:16
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	1900	H	500	ug/Kg		01/12/22 15:34	01/14/22 20:23	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	81		25 - 126			01/12/22 15:34	01/14/22 20:23	10
DCB Decachlorobiphenyl (Surr)	75		20 - 155			01/12/22 15:34	01/14/22 20:23	10

Client Sample ID: SB-87-2
Date Collected: 12/22/21 07:32
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	1700	H	500	ug/Kg		01/12/22 15:34	01/14/22 20:41	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	75		25 - 126			01/12/22 15:34	01/14/22 20:41	10
DCB Decachlorobiphenyl (Surr)	81		20 - 155			01/12/22 15:34	01/14/22 20:41	10

Client Sample ID: SB-87-4
Date Collected: 12/22/21 07:32
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	7700	H	2500	ug/Kg		01/12/22 15:34	01/18/22 15:00	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	90		25 - 126			01/12/22 15:34	01/18/22 15:00	50
DCB Decachlorobiphenyl (Surr)	93		20 - 155			01/12/22 15:34	01/18/22 15:00	50

Client Sample ID: SB-90-4
Date Collected: 12/22/21 08:39
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	13000	H	2500	ug/Kg		01/12/22 15:34	01/18/22 18:17	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	70		25 - 126			01/12/22 15:34	01/18/22 18:17	50
DCB Decachlorobiphenyl (Surr)	75		20 - 155			01/12/22 15:34	01/18/22 18:17	50

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - RA

Client Sample ID: SB-87-4
Date Collected: 12/22/21 07:32
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:35	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:35	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:35	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:35	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:35	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:35	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:35	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	115		25 - 126			01/12/22 15:34	01/15/22 00:35	1
DCB Decachlorobiphenyl (Surr)	70		20 - 155			01/12/22 15:34	01/15/22 00:35	1

Client Sample ID: SB-90-4
Date Collected: 12/22/21 08:39
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:53	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:53	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:53	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:53	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:53	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:53	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:53	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 00:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	81		25 - 126			01/12/22 15:34	01/15/22 00:53	1
DCB Decachlorobiphenyl (Surr)	69		20 - 155			01/12/22 15:34	01/15/22 00:53	1

Client Sample ID: SB-91-2
Date Collected: 12/22/21 08:49
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 01:10	1
Aroclor-1221	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 01:10	1
Aroclor-1232	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 01:10	1
Aroclor-1242	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 01:10	1
Aroclor-1254	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 01:10	1
Aroclor-1260	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 01:10	1
Aroclor-1262	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 01:10	1
Aroclor-1268	ND	H	50	ug/Kg		01/12/22 15:34	01/15/22 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	58		25 - 126			01/12/22 15:34	01/15/22 01:10	1
DCB Decachlorobiphenyl (Surr)	52		20 - 155			01/12/22 15:34	01/15/22 01:10	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-79979-1	SB-85-2	69	66
570-79979-1 - DL	SB-85-2	74	80
570-79979-2	SB-85-4	79	71
570-79979-2 - DL	SB-85-4	81	75
570-79979-4	SB-87-2	73	74
570-79979-4 - DL	SB-87-2	75	81
570-79979-5 - RA	SB-87-4	115	70
570-79979-5 - DL	SB-87-4	90	93
570-79979-13	SB-90-2	84	84
570-79979-14 - RA	SB-90-4	81	69
570-79979-14 - DL	SB-90-4	70	75
570-79979-15 - RA	SB-91-2	58	52
570-79979-15	SB-91-2	51	80
570-79979-16	SB-91-4	73	58
570-79979-20	SB-92-6	78	74
570-79979-21	SB-86-2	65	66
570-79979-22	SB-86-4	64	66
570-81212-A-1-K MS	Matrix Spike	116	99
570-81212-A-1-L MSD	Matrix Spike Duplicate	79	68
LCS 570-207051/2-A	Lab Control Sample	83	84
LCSD 570-207051/3-A	Lab Control Sample Dup	85	85
MB 570-207051/1-A	Method Blank	86	87

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-207051/1-A
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 207051

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1221	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1232	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1242	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1248	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1254	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1260	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1262	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1
Aroclor-1268	ND		50	ug/Kg		01/12/22 14:00	01/13/22 02:37	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	86		25 - 126	01/12/22 14:00	01/13/22 02:37	1
DCB Decachlorobiphenyl (Surr)	87		20 - 155	01/12/22 14:00	01/13/22 02:37	1

Lab Sample ID: LCS 570-207051/2-A
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 207051

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor-1016	100	113.2		ug/Kg		113	50 - 142
Aroclor-1260	100	111.3		ug/Kg		111	50 - 150

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	83		25 - 126
DCB Decachlorobiphenyl (Surr)	84		20 - 155

Lab Sample ID: LCSD 570-207051/3-A
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 207051

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Aroclor-1016	100	118.3		ug/Kg		118	50 - 142	4	30
Aroclor-1260	100	115.4		ug/Kg		115	50 - 150	2	30

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	85		25 - 126
DCB Decachlorobiphenyl (Surr)	85		20 - 155

Lab Sample ID: 570-81212-A-1-K MS
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 207051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Aroclor-1016	ND		99.3	85.06		ug/Kg		86	20 - 175
Aroclor-1260	ND		99.3	86.31		ug/Kg		87	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-81212-A-1-K MS
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 207051

<u>Surrogate</u>	<u>%Recovery</u>	<u>MS MS Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	116		25 - 126
DCB Decachlorobiphenyl (Surr)	99		20 - 155

Lab Sample ID: 570-81212-A-1-L MSD
Matrix: Solid
Analysis Batch: 207141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 207051

<u>Analyte</u>	<u>Sample Result</u>	<u>Sample Qualifier</u>	<u>Spike Added</u>	<u>MSD Result</u>	<u>MSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec. Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Aroclor-1016	ND		99.5	101.9		ug/Kg		102	20 - 175	18	40
Aroclor-1260	ND		99.5	93.95		ug/Kg		94	20 - 180	8	40

<u>Surrogate</u>	<u>%Recovery</u>	<u>MSD MSD Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	79		25 - 126
DCB Decachlorobiphenyl (Surr)	68		20 - 155

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

GC Semi VOA

Prep Batch: 207051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-1	SB-85-2	Total/NA	Solid	3546	
570-79979-1 - DL	SB-85-2	Total/NA	Solid	3546	
570-79979-2 - DL	SB-85-4	Total/NA	Solid	3546	
570-79979-2	SB-85-4	Total/NA	Solid	3546	
570-79979-4	SB-87-2	Total/NA	Solid	3546	
570-79979-4 - DL	SB-87-2	Total/NA	Solid	3546	
570-79979-5 - RA	SB-87-4	Total/NA	Solid	3546	
570-79979-5 - DL	SB-87-4	Total/NA	Solid	3546	
570-79979-13	SB-90-2	Total/NA	Solid	3546	
570-79979-14 - DL	SB-90-4	Total/NA	Solid	3546	
570-79979-14 - RA	SB-90-4	Total/NA	Solid	3546	
570-79979-15	SB-91-2	Total/NA	Solid	3546	
570-79979-15 - RA	SB-91-2	Total/NA	Solid	3546	
570-79979-16	SB-91-4	Total/NA	Solid	3546	
570-79979-20	SB-92-6	Total/NA	Solid	3546	
570-79979-21	SB-86-2	Total/NA	Solid	3546	
570-79979-22	SB-86-4	Total/NA	Solid	3546	
MB 570-207051/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-207051/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 570-207051/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-81212-A-1-K MS	Matrix Spike	Total/NA	Solid	3546	
570-81212-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 207141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-1	SB-85-2	Total/NA	Solid	8082	207051
570-79979-2	SB-85-4	Total/NA	Solid	8082	207051
570-79979-4	SB-87-2	Total/NA	Solid	8082	207051
570-79979-13	SB-90-2	Total/NA	Solid	8082	207051
570-79979-16	SB-91-4	Total/NA	Solid	8082	207051
570-79979-20	SB-92-6	Total/NA	Solid	8082	207051
570-79979-21	SB-86-2	Total/NA	Solid	8082	207051
570-79979-22	SB-86-4	Total/NA	Solid	8082	207051
MB 570-207051/1-A	Method Blank	Total/NA	Solid	8082	207051
LCS 570-207051/2-A	Lab Control Sample	Total/NA	Solid	8082	207051
LCS 570-207051/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	207051
570-81212-A-1-K MS	Matrix Spike	Total/NA	Solid	8082	207051
570-81212-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	207051

Analysis Batch: 207149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-1 - DL	SB-85-2	Total/NA	Solid	8082	207051
570-79979-2 - DL	SB-85-4	Total/NA	Solid	8082	207051
570-79979-4 - DL	SB-87-2	Total/NA	Solid	8082	207051
570-79979-5 - RA	SB-87-4	Total/NA	Solid	8082	207051
570-79979-14 - RA	SB-90-4	Total/NA	Solid	8082	207051
570-79979-15 - RA	SB-91-2	Total/NA	Solid	8082	207051

Analysis Batch: 208096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-5 - DL	SB-87-4	Total/NA	Solid	8082	207051

Eurofins Calscience

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

GC Semi VOA (Continued)

Analysis Batch: 208096 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-14 - DL	SB-90-4	Total/NA	Solid	8082	207051

Analysis Batch: 208191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-15	SB-91-2	Total/NA	Solid	8082	207051

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Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Client Sample ID: SB-85-2

Lab Sample ID: 570-79979-1

Date Collected: 12/22/21 07:15

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 17:16	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.09 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			207149	01/14/22 20:05	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-85-4

Lab Sample ID: 570-79979-2

Date Collected: 12/22/21 07:16

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 17:34	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.14 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			207149	01/14/22 20:23	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-87-2

Lab Sample ID: 570-79979-4

Date Collected: 12/22/21 07:32

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.18 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 17:52	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.18 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082	DL	10			207149	01/14/22 20:41	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-87-4

Lab Sample ID: 570-79979-5

Date Collected: 12/22/21 07:32

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	RA		20.11 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082	RA	1			207149	01/15/22 00:35	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.11 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082	DL	50			208096	01/18/22 15:00	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Client Sample ID: SB-90-2

Lab Sample ID: 570-79979-13

Date Collected: 12/22/21 08:39

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 18:28	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-90-4

Lab Sample ID: 570-79979-14

Date Collected: 12/22/21 08:39

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	RA		20.13 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082	RA	1			207149	01/15/22 00:53	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546	DL		20.13 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082	DL	50			208096	01/18/22 18:17	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-91-2

Lab Sample ID: 570-79979-15

Date Collected: 12/22/21 08:49

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	RA		20.07 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082	RA	1			207149	01/15/22 01:10	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.07 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		10			208191	01/19/22 09:35	UJ3K	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-91-4

Lab Sample ID: 570-79979-16

Date Collected: 12/22/21 08:49

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 19:22	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-92-6

Lab Sample ID: 570-79979-20

Date Collected: 12/22/21 09:10

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.08 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 19:40	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Client Sample ID: SB-86-2

Lab Sample ID: 570-79979-21

Date Collected: 12/22/21 00:01

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 19:58	UHHN	ECL 1

Instrument ID: GC58

Client Sample ID: SB-86-4

Lab Sample ID: 570-79979-22

Date Collected: 12/22/21 00:01

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	207051	01/12/22 15:34	USUL	ECL 1
Total/NA	Analysis	8082		1			207141	01/13/22 20:16	UHHN	ECL 1

Instrument ID: GC58

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-79979-1	SB-85-2	Solid	12/22/21 07:15	12/22/21 10:48
570-79979-2	SB-85-4	Solid	12/22/21 07:16	12/22/21 10:48
570-79979-4	SB-87-2	Solid	12/22/21 07:32	12/22/21 10:48
570-79979-5	SB-87-4	Solid	12/22/21 07:32	12/22/21 10:48
570-79979-13	SB-90-2	Solid	12/22/21 08:39	12/22/21 10:48
570-79979-14	SB-90-4	Solid	12/22/21 08:39	12/22/21 10:48
570-79979-15	SB-91-2	Solid	12/22/21 08:49	12/22/21 10:48
570-79979-16	SB-91-4	Solid	12/22/21 08:49	12/22/21 10:48
570-79979-20	SB-92-6	Solid	12/22/21 09:10	12/22/21 10:48
570-79979-21	SB-86-2	Solid	12/22/21 00:01	12/22/21 10:48
570-79979-22	SB-86-4	Solid	12/22/21 00:01	12/22/21 10:48

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Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Wednesday, January 12, 2022 12:30 PM
To: Nowak, Stephen
Subject: RE: Eurofins Southwest report and EDD files from 570-79842-2 Batavia / SC1123/13

EXTERNAL EMAIL*

Thanks Steve! Yes, good catch – typo on my end. Please run 92-6.

-Brian

From: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Sent: Wednesday, January 12, 2022 12:28 PM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>
Subject: RE: Eurofins Southwest report and EDD files from 570-79842-2 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Brian-

FYI-
92-2 and 92-4 previously reported.
Did you need 92-6 analyzed?

Stephen Nowak
Project Manager



Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: Stephen.Nowak@eurofinset.com
Website: www.EurofinsUS.com/Calscience

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Wednesday, January 12, 2022 11:32 AM
To: Nowak, Stephen <Stephen.Nowak@eurofinset.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert

<MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>

Subject: RE: Eurofins Southwest report and EDD files from 570-79842-2 Batavia / SC1123/13

EXTERNAL EMAIL*

Hi Steve,

Please proceed to analyze the following held samples:

SB-80 (6 ft), 82 (6 ft), 85 (2ft, 4ft), 86 (2ft, 4ft), 87 (2ft, 4ft), 90 (2ft, 4ft), 91 (2ft, 4ft), and 92 (2ft, 4ft).

Thanks!

Brian Rockwell
(619) 810-4033

From: Stephen Nowak <Stephen.Nowak@eurofinset.com>

Sent: Tuesday, January 11, 2022 8:30 AM

To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>

Subject: Eurofins Southwest report and EDD files from 570-79842-2 Batavia / SC1123/13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hello,

Attached please find the report and EDD files for job 570-79842-2; Batavia / SC1123/13

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: Stephen.Nowak@eurofinset.com
www.eurofinsus.com/env



Reference: [570-277990]
Attachments: 2

79979



Calscience



7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information contact us26_eurofinsus.com or call us

CHAIN OF CUSTODY RECORD

DATE 12/22/21

PAGE 1 OF 3

570-79979 Chain of Custody

LABORATORY CLIENT: **Geosyntec Consultants**
 ADDRESS: **16644 West Bernardo Drive**
 CITY: **San Diego** STATE: **Ca** ZIP: **92127**
 TEL: **(619) 309-9549** EMAIL: **Brockwell@geosyntec.com**
 CLIENT PROJECT NAME / NUMBER: **SC1123/13** P O NO: **1 00030960**
 PROJECT CONTACT: **Brian Rockwell** SAMPLER(S): (PRINT) **Emily Imperato**

REQUESTED ANALYSES
 Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	LOG CODE			Field Filtered	Preserved	Unpreserved
		DATE	TIME			SAME DAY	GLOBAL ID	ECI PROJECT NO			
	1 SB-85-2	12/22/21	0715	Soil	1	<input type="checkbox"/>		<input checked="" type="checkbox"/>			
	2 SB-85-4		0716								
	3 SB-86-6		0716								
	4 SB-87-2		0732								
	5 SB-87-4		0732								
	6 SB-87-6		0734								
	7 SB-88-2		0758								
	8 SB-88-4		0758								
	9 SB-88-6		0800								
	10 SB-89-2		0825								

TPH TPH(g) GRO TPH(d) DRO TPH C6-C36 C6 C44

BTEX / MTBE 8260

VOCs (8260)

Oxygenates (8260)

Prep (5035) En Core Terra Core

SVOCs (8270)

Pesticides (8081)

PCBs (8082)

PAHs 8270 8270 SIM

T22 Metals 6010/747X 6020/747X

C(VI) 7196 7199 2186

Received by: (Signature/Affiliation) *[Signature]* Date 12/22/21 Time 1048

Received by: (Signature/Affiliation) *[Signature]* Date _____ Time _____

Received by: (Signature/Affiliation) _____ Date _____ Time _____

06/02/14 Revision 1
 2-0/2-9 JCF 2
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Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-79979-2

Login Number: 79979
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue
Tustin, CA 92780
Tel: (949)261-1022

Laboratory Job ID: 570-79979-3
Client Project/Site: Batavia / SC1123/13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
2/21/2022 8:50:43 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Job ID: 570-79979-3

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-79979-3

Comments

No additional comments.

Receipt

The samples were received on 12/22/2021 10:48 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Receipt Exceptions

The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): SB-86-2 (570-79979-21), SB-86-4 (570-79979-22) and SB-86-6 (570-79979-23)

GC Semi VOA

Method 8082: The following samples were prepared outside of preparation holding time : SB-85-6 (570-79979-3), SB-87-6 (570-79979-6), SB-88-2 (570-79979-7), SB-88-4 (570-79979-8), SB-89-2 (570-79979-10) and SB-89-4 (570-79979-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples were prepared outside of preparation holding time : SB-85-6 (570-79979-3), SB-87-6 (570-79979-6), SB-88-2 (570-79979-7), SB-88-4 (570-79979-8), SB-89-2 (570-79979-10), SB-89-4 (570-79979-11), (570-79979-A-3 MS) and (570-79979-A-3 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Client Sample ID: SB-85-6

Lab Sample ID: 570-79979-3

No Detections.

Client Sample ID: SB-87-6

Lab Sample ID: 570-79979-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	140	H	50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-88-2

Lab Sample ID: 570-79979-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	2300	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-88-4

Lab Sample ID: 570-79979-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1700	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-89-2

Lab Sample ID: 570-79979-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1400	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-89-4

Lab Sample ID: 570-79979-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	5700	H	500	ug/Kg	10		8082	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-85-6
Date Collected: 12/22/21 07:16
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Aroclor-1221	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Aroclor-1232	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Aroclor-1242	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Aroclor-1248	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Aroclor-1254	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Aroclor-1260	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Aroclor-1262	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Aroclor-1268	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	56		25 - 126			02/14/22 11:55	02/18/22 13:49	1
DCB Decachlorobiphenyl (Surr)	61		20 - 155			02/14/22 11:55	02/18/22 13:49	1

Client Sample ID: SB-87-6
Date Collected: 12/22/21 07:34
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Aroclor-1221	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Aroclor-1232	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Aroclor-1242	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Aroclor-1248	140	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Aroclor-1254	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Aroclor-1260	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Aroclor-1262	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Aroclor-1268	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	55		25 - 126			02/14/22 11:55	02/18/22 14:07	1
DCB Decachlorobiphenyl (Surr)	56		20 - 155			02/14/22 11:55	02/18/22 14:07	1

Client Sample ID: SB-88-2
Date Collected: 12/22/21 07:58
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:25	1
Aroclor-1221	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:25	1
Aroclor-1232	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:25	1
Aroclor-1242	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:25	1
Aroclor-1248	2300	H	500	ug/Kg		02/14/22 11:55	02/18/22 22:08	10
Aroclor-1254	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:25	1
Aroclor-1260	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:25	1
Aroclor-1262	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:25	1
Aroclor-1268	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	57		25 - 126			02/14/22 11:55	02/18/22 14:25	1
Tetrachloro-m-xylene (Surr)	71		25 - 126			02/14/22 11:55	02/18/22 22:08	10
DCB Decachlorobiphenyl (Surr)	65		20 - 155			02/14/22 11:55	02/18/22 14:25	1
DCB Decachlorobiphenyl (Surr)	85		20 - 155			02/14/22 11:55	02/18/22 22:08	10

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-88-4
Date Collected: 12/22/21 07:58
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:43	1
Aroclor-1221	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:43	1
Aroclor-1232	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:43	1
Aroclor-1242	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:43	1
Aroclor-1248	1700	H	500	ug/Kg		02/14/22 11:55	02/18/22 22:26	10
Aroclor-1254	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:43	1
Aroclor-1260	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:43	1
Aroclor-1262	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:43	1
Aroclor-1268	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 14:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	57		25 - 126			02/14/22 11:55	02/18/22 14:43	1
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			02/14/22 11:55	02/18/22 22:26	10
<i>DCB Decachlorobiphenyl (Surr)</i>	66		20 - 155			02/14/22 11:55	02/18/22 14:43	1
<i>DCB Decachlorobiphenyl (Surr)</i>	86		20 - 155			02/14/22 11:55	02/18/22 22:26	10

Client Sample ID: SB-89-2
Date Collected: 12/22/21 08:25
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:01	1
Aroclor-1221	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:01	1
Aroclor-1232	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:01	1
Aroclor-1242	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:01	1
Aroclor-1248	1400	H	500	ug/Kg		02/14/22 11:55	02/18/22 22:44	10
Aroclor-1254	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:01	1
Aroclor-1260	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:01	1
Aroclor-1262	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:01	1
Aroclor-1268	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	58		25 - 126			02/14/22 11:55	02/18/22 15:01	1
<i>Tetrachloro-m-xylene (Surr)</i>	71		25 - 126			02/14/22 11:55	02/18/22 22:44	10
<i>DCB Decachlorobiphenyl (Surr)</i>	57		20 - 155			02/14/22 11:55	02/18/22 15:01	1
<i>DCB Decachlorobiphenyl (Surr)</i>	73		20 - 155			02/14/22 11:55	02/18/22 22:44	10

Client Sample ID: SB-89-4
Date Collected: 12/22/21 08:25
Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:19	1
Aroclor-1221	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:19	1
Aroclor-1232	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:19	1
Aroclor-1242	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:19	1
Aroclor-1248	5700	H	500	ug/Kg		02/14/22 11:55	02/18/22 23:02	10
Aroclor-1254	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:19	1
Aroclor-1260	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:19	1
Aroclor-1262	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:19	1
Aroclor-1268	ND	H	50	ug/Kg		02/14/22 11:55	02/18/22 15:19	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
<i>Tetrachloro-m-xylene (Surr)</i>	55		25 - 126	02/14/22 11:55	02/18/22 15:19	1
<i>Tetrachloro-m-xylene (Surr)</i>	65		25 - 126	02/14/22 11:55	02/18/22 23:02	10
<i>DCB Decachlorobiphenyl (Surr)</i>	64		20 - 155	02/14/22 11:55	02/18/22 15:19	1
<i>DCB Decachlorobiphenyl (Surr)</i>	80		20 - 155	02/14/22 11:55	02/18/22 23:02	10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-79979-3	SB-85-6	56	61
570-79979-3 MS	SB-85-6	53	60
570-79979-3 MSD	SB-85-6	54	58
570-79979-6	SB-87-6	55	56
570-79979-7	SB-88-2	57	65
570-79979-7	SB-88-2	71	85
570-79979-8	SB-88-4	57	66
570-79979-8	SB-88-4	71	86
570-79979-10	SB-89-2	58	57
570-79979-10	SB-89-2	71	73
570-79979-11	SB-89-4	55	64
570-79979-11	SB-89-4	65	80
LCS 570-213074/2-A	Lab Control Sample	79	82
LCSD 570-213074/3-A	Lab Control Sample Dup	81	83
MB 570-213074/1-A	Method Blank	80	82

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-213074/1-A
Matrix: Solid
Analysis Batch: 213748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213074

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1
Aroclor-1221	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1
Aroclor-1232	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1
Aroclor-1242	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1
Aroclor-1248	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1
Aroclor-1254	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1
Aroclor-1260	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1
Aroclor-1262	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1
Aroclor-1268	ND		50	ug/Kg		02/14/22 11:55	02/17/22 20:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	80		25 - 126	02/14/22 11:55	02/17/22 20:44	1
DCB Decachlorobiphenyl (Surr)	82		20 - 155	02/14/22 11:55	02/17/22 20:44	1

Lab Sample ID: LCS 570-213074/2-A
Matrix: Solid
Analysis Batch: 213748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213074

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Aroclor-1016	100	89.13		ug/Kg		89	50 - 142
Aroclor-1260	100	98.44		ug/Kg		98	50 - 150

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	79		25 - 126
DCB Decachlorobiphenyl (Surr)	82		20 - 155

Lab Sample ID: LCSD 570-213074/3-A
Matrix: Solid
Analysis Batch: 213748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 213074

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Aroclor-1016	100	90.16		ug/Kg		90	50 - 142	1	30
Aroclor-1260	100	99.73		ug/Kg		100	50 - 150	1	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene (Surr)	81		25 - 126
DCB Decachlorobiphenyl (Surr)	83		20 - 155

Lab Sample ID: 570-79979-3 MS
Matrix: Solid
Analysis Batch: 214086

Client Sample ID: SB-85-6
Prep Type: Total/NA
Prep Batch: 213074

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Aroclor-1016	ND	H	99.4	103.6		ug/Kg		104	20 - 175
Aroclor-1260	ND	H	99.4	87.55		ug/Kg		88	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-79979-3 MS
Matrix: Solid
Analysis Batch: 214086

Client Sample ID: SB-85-6
Prep Type: Total/NA
Prep Batch: 213074

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro- <i>m</i> -xylene (Surr)	53		25 - 126
DCB Decachlorobiphenyl (Surr)	60		20 - 155

Lab Sample ID: 570-79979-3 MSD
Matrix: Solid
Analysis Batch: 214086

Client Sample ID: SB-85-6
Prep Type: Total/NA
Prep Batch: 213074

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
Aroclor-1016	ND	H	99.2	96.69		ug/Kg		98	20 - 175	7	40
Aroclor-1260	ND	H	99.2	75.47		ug/Kg		76	20 - 180	15	40

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro- <i>m</i> -xylene (Surr)	54		25 - 126
DCB Decachlorobiphenyl (Surr)	58		20 - 155

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

GC Semi VOA

Prep Batch: 213074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-3	SB-85-6	Total/NA	Solid	3546	
570-79979-6	SB-87-6	Total/NA	Solid	3546	
570-79979-7	SB-88-2	Total/NA	Solid	3546	
570-79979-8	SB-88-4	Total/NA	Solid	3546	
570-79979-10	SB-89-2	Total/NA	Solid	3546	
570-79979-11	SB-89-4	Total/NA	Solid	3546	
MB 570-213074/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-213074/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-213074/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-79979-3 MS	SB-85-6	Total/NA	Solid	3546	
570-79979-3 MSD	SB-85-6	Total/NA	Solid	3546	

Analysis Batch: 213748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-213074/1-A	Method Blank	Total/NA	Solid	8082	213074
LCS 570-213074/2-A	Lab Control Sample	Total/NA	Solid	8082	213074
LCSD 570-213074/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	213074

Analysis Batch: 214086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-79979-3	SB-85-6	Total/NA	Solid	8082	213074
570-79979-6	SB-87-6	Total/NA	Solid	8082	213074
570-79979-7	SB-88-2	Total/NA	Solid	8082	213074
570-79979-7	SB-88-2	Total/NA	Solid	8082	213074
570-79979-8	SB-88-4	Total/NA	Solid	8082	213074
570-79979-8	SB-88-4	Total/NA	Solid	8082	213074
570-79979-10	SB-89-2	Total/NA	Solid	8082	213074
570-79979-10	SB-89-2	Total/NA	Solid	8082	213074
570-79979-11	SB-89-4	Total/NA	Solid	8082	213074
570-79979-11	SB-89-4	Total/NA	Solid	8082	213074
570-79979-3 MS	SB-85-6	Total/NA	Solid	8082	213074
570-79979-3 MSD	SB-85-6	Total/NA	Solid	8082	213074

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Client Sample ID: SB-85-6

Date Collected: 12/22/21 07:16

Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		1			214086	02/18/22 13:49	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-87-6

Date Collected: 12/22/21 07:34

Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		1			214086	02/18/22 14:07	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-88-2

Date Collected: 12/22/21 07:58

Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.19 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		1			214086	02/18/22 14:25	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.19 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		10			214086	02/18/22 22:08	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-88-4

Date Collected: 12/22/21 07:58

Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		1			214086	02/18/22 14:43	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.13 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		10			214086	02/18/22 22:26	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-89-2

Date Collected: 12/22/21 08:25

Date Received: 12/22/21 10:48

Lab Sample ID: 570-79979-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		1			214086	02/18/22 15:01	UHHN	ECL 1
Instrument ID: GC58										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Client Sample ID: SB-89-2

Lab Sample ID: 570-79979-10

Date Collected: 12/22/21 08:25

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		10			214086	02/18/22 22:44	UHHN	ECL 1
Instrument ID: GC58										

Client Sample ID: SB-89-4

Lab Sample ID: 570-79979-11

Date Collected: 12/22/21 08:25

Matrix: Solid

Date Received: 12/22/21 10:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.19 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		1			214086	02/18/22 15:19	UHHN	ECL 1
Instrument ID: GC58										
Total/NA	Prep	3546			20.19 g	10 mL	213074	02/14/22 11:55	USUL	ECL 1
Total/NA	Analysis	8082		10			214086	02/18/22 23:02	UHHN	ECL 1
Instrument ID: GC58										

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (949)261-1022



Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (949)261-1022



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123/13

Job ID: 570-79979-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-79979-3	SB-85-6	Solid	12/22/21 07:16	12/22/21 10:48
570-79979-6	SB-87-6	Solid	12/22/21 07:34	12/22/21 10:48
570-79979-7	SB-88-2	Solid	12/22/21 07:58	12/22/21 10:48
570-79979-8	SB-88-4	Solid	12/22/21 07:58	12/22/21 10:48
570-79979-10	SB-89-2	Solid	12/22/21 08:25	12/22/21 10:48
570-79979-11	SB-89-4	Solid	12/22/21 08:25	12/22/21 10:48

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Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Friday, February 11, 2022 12:37 PM
To: Nowak, Stephen
Subject: Additional sample runs - Orange site, SC1123

EXTERNAL EMAIL*

Hi Steve,

We're going to be heading back out to collect a final round of samples at our site in Orange. In the meantime, can you run the following held samples for PCB analysis, if you still have them (we understand that we're out of the holding time):

- 2 and 4 ft: SB-71, 88, 89
- 6 ft: SB-85, 87, 90

Thanks,

Brian Rockwell
(619) 810-4033

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

79979



Calscience



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For courier service / sample drop off information contact us26_sales@eurofins.com or call us

CHAIN OF CUSTODY RECORD

DATE 12/22/21

PAGE 1 OF 3

570-79979 Chain of Custody

LABORATORY CLIENT: **Geosyntec Consultants**
 ADDRESS: **16644 West Bernardo Drive**
 CITY: **San Diego** STATE: **Ca** ZIP: **92127**
 TEL: **(619) 309-9549** EMAIL: **Brockwell@geosyntec.com**
 CLIENT PROJECT NAME / NUMBER: **SC1123/13** P O NO: **1 00030960**
 PROJECT CONTACT: **Brian Rockwell** SAMPLER(S): (PRINT) **Emily Imperato**

REQUESTED ANALYSES
 Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	LOG CODE			Field Filtered	Preserved	Unpreserved
		DATE	TIME			SAME DAY	GLOBAL ID	ECI PROJECT NO			
1	SB-85-2	12/22/21	0715	Soil	1	<input type="checkbox"/>		<input checked="" type="checkbox"/>			
2	SB-85-4		0716								
3	SB-86-6		0716								
4	SB-87-2		0732								
5	SB-87-4		0732								
6	SB-87-6		0734								
7	SB-88-2		0758								
8	SB-88-4		0758								
9	SB-88-6		0800								
10	SB-89-2		0825								

Requested Analytes: TPH (g) GRO, TPH (d) DRO, TPH C6-C36 C6 C44, VOCs (8260) BTEX / MTBE 8260 VOCs (8260), Oxygenates (8260), Prep (5035) En Core Terra Core, SVOCs (8270), Pesticides (8081), PCBs (8082), PAHs 8270 8270 SIM, T22 Metals 6010/747X 6020/747X, C(VI) 7196 7199 2186

Received by: (Signature/Affiliation) *[Signature]* Date: 12/22/21 Time: 1048
 Received by: (Signature/Affiliation) *[Signature]* Date: Time:
 Relinquished by: (Signature) *[Signature]* Date: Time:
 Relinquished by: (Signature) *[Signature]* Date: Time:
 Relinquished by: (Signature/Affiliation) *[Signature]* Date: Time:

06/02/14 Revision 1
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Calscience

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For courier service / sample drop off information contact us25_sales@eurofins.com or call us

CHAIN OF CUSTODY RECORD

DATE 12/22/21

PAGE 2 OF 3

LABORATORY CLIENT: **Geosyntec Consultants**
 ADDRESS: **16644 West Bernardo Drive**
 CITY: **San Diego** STATE: **Ca** ZIP: **92127**
 TEL: **(619) 309-9549** EMAIL: **Brockwell@geosyntec.com**

CLIENT PROJECT NAME / NUMBER: **SC1123/13**
 PROJECT CONTACT: **Brian Rockwell**

P.O. NO: **100030960**
 SAMPLER(S): (PRINT) **Emily Imperato**

REQUESTED ANALYSES

Please check box or fill in blank as needed

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	LOG CODE			Requested Analytes
		DATE	TIME			Unpreserved	Preserved	Field Filtered	
11	SB-89-4	12/22/21	0825	SO11	1	X			TPH (g) <input type="checkbox"/> GRO TPH (d) <input type="checkbox"/> DRO TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44
12	SB-89-6		0826						TPH <input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>
13	SB-90-2		0839						VOCs (8260) Oxygenates (8260) Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core
14	SB-90-4		0839						SVOCs (8270) Pesticides (8081) PCBs (8082)
15	SB-90-6 - EI		0849						PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X
16	SB-91-2		0849						C(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6
17	SB-91-4		0855						
18	SB-92-2		0859						
19	SB-92-4		0906						

Received by (Signature) *CW* Date: 12/22/21 Time: 1048
 Received by (Signature) *JMK* Date: Date: Time:
 Received by (Signature) Date: Date: Time:

06/02/14 Revision 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

79979

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-79979-3

Login Number: 79979

List Number: 1

Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-74572-2
Client Project/Site: Batavia / SC1123-13

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
11/29/2021 8:46:15 AM
Tina Nguyen, Project Manager
tina.nguyen@eurofinset.com
Designee for
Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Job ID: 570-74572-2

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-74572-2

Comments

No additional comments.

Receipt

The samples were received on 11/2/2021 1:47 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

GC Semi VOA

Method 8082: The following samples were prepared outside of preparation holding time : SB-58-6 (570-74572-6), SB-60-6 (570-74572-12), SB-61-6 (570-74572-15), SB-62-6 (570-74572-18), SB-63-6 (570-74572-21), SB-64-6 (570-74572-24) and SB-65-6 (570-74572-27).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples were prepared outside of preparation holding time : SB-58-6 (570-74572-6), SB-60-6 (570-74572-12), SB-61-6 (570-74572-15), SB-62-6 (570-74572-18), SB-63-6 (570-74572-21), SB-64-6 (570-74572-24) and SB-65-6 (570-74572-27).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-58-6
Date Collected: 11/02/21 08:20
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Aroclor-1221	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Aroclor-1232	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Aroclor-1242	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Aroclor-1248	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Aroclor-1254	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Aroclor-1260	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Aroclor-1262	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Aroclor-1268	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	59		25 - 126			11/22/21 19:09	11/24/21 09:20	1
DCB Decachlorobiphenyl (Surr)	68		20 - 155			11/22/21 19:09	11/24/21 09:20	1

Client Sample ID: SB-60-6
Date Collected: 11/02/21 09:25
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Aroclor-1221	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Aroclor-1232	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Aroclor-1242	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Aroclor-1248	53	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Aroclor-1254	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Aroclor-1260	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Aroclor-1262	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Aroclor-1268	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	73		25 - 126			11/22/21 19:09	11/24/21 09:39	1
DCB Decachlorobiphenyl (Surr)	86		20 - 155			11/22/21 19:09	11/24/21 09:39	1

Client Sample ID: SB-61-6
Date Collected: 11/02/21 09:40
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Aroclor-1221	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Aroclor-1232	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Aroclor-1242	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Aroclor-1248	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Aroclor-1254	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Aroclor-1260	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Aroclor-1262	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Aroclor-1268	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	53		25 - 126			11/22/21 19:09	11/24/21 09:58	1
DCB Decachlorobiphenyl (Surr)	66		20 - 155			11/22/21 19:09	11/24/21 09:58	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-62-6
Date Collected: 11/02/21 09:52
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-18
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Aroclor-1221	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Aroclor-1232	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Aroclor-1242	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Aroclor-1248	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Aroclor-1254	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Aroclor-1260	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Aroclor-1262	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Aroclor-1268	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	42		25 - 126			11/22/21 19:09	11/24/21 10:17	1
DCB Decachlorobiphenyl (Surr)	46		20 - 155			11/22/21 19:09	11/24/21 10:17	1

Client Sample ID: SB-63-6
Date Collected: 11/02/21 10:06
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-21
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Aroclor-1221	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Aroclor-1232	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Aroclor-1242	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Aroclor-1248	450	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Aroclor-1254	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Aroclor-1260	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Aroclor-1262	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Aroclor-1268	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	53		25 - 126			11/22/21 19:09	11/24/21 10:36	1
DCB Decachlorobiphenyl (Surr)	65		20 - 155			11/22/21 19:09	11/24/21 10:36	1

Client Sample ID: SB-64-6
Date Collected: 11/02/21 10:25
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-24
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Aroclor-1221	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Aroclor-1232	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Aroclor-1242	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Aroclor-1248	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Aroclor-1254	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Aroclor-1260	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Aroclor-1262	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Aroclor-1268	ND	H	50	ug/Kg		11/22/21 19:09	11/24/21 10:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	53		25 - 126			11/22/21 19:09	11/24/21 10:55	1
DCB Decachlorobiphenyl (Surr)	63		20 - 155			11/22/21 19:09	11/24/21 10:55	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-65-6
Date Collected: 11/02/21 10:38
Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-27
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1
Aroclor-1221	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1
Aroclor-1232	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1
Aroclor-1242	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1
Aroclor-1248	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1
Aroclor-1254	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1
Aroclor-1260	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1
Aroclor-1262	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1
Aroclor-1268	ND	H	50	ug/Kg	-	11/22/21 19:09	11/24/21 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	66	-	25 - 126	11/22/21 19:09	11/24/21 11:14	1
DCB Decachlorobiphenyl (Surr)	78	-	20 - 155	11/22/21 19:09	11/24/21 11:14	1

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(25-126)	(20-155)
570-74572-6	SB-58-6	59	68
570-74572-12	SB-60-6	73	86
570-74572-15	SB-61-6	53	66
570-74572-18	SB-62-6	42	46
570-74572-21	SB-63-6	53	65
570-74572-24	SB-64-6	53	63
570-74572-27	SB-65-6	66	78
570-76522-A-1-A MS	Matrix Spike	43	
LCS 570-195986/2-A	Lab Control Sample	78	82
LCSD 570-195986/3-A	Lab Control Sample Dup		82
MB 570-195986/1-A	Method Blank		89

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-195986/1-A
Matrix: Solid
Analysis Batch: 196250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195986

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aroclor-1016	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Aroclor-1221	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Aroclor-1232	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Aroclor-1242	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Aroclor-1248	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Aroclor-1254	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Aroclor-1260	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Aroclor-1262	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Aroclor-1268	ND		50	ug/Kg		11/22/21 10:48	11/23/21 12:57	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
DCB Decachlorobiphenyl (Surr)	89		20 - 155			11/22/21 10:48	11/23/21 12:57	1

Lab Sample ID: LCS 570-195986/2-A
Matrix: Solid
Analysis Batch: 196250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195986

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Aroclor-1016	100	102.8		ug/Kg		103	50 - 142
Aroclor-1260	100	95.34		ug/Kg		95	50 - 150
Surrogate	LCS LCS		Limits			%Rec	%Rec. Limits
	%Recovery	Qualifier					
Tetrachloro-m-xylene (Surr)	78		25 - 126				
DCB Decachlorobiphenyl (Surr)	82		20 - 155				

Lab Sample ID: LCSD 570-195986/3-A
Matrix: Solid
Analysis Batch: 196250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195986

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
Aroclor-1016	100	97.58		ug/Kg		98	50 - 142	5	30
Aroclor-1260	100	97.93		ug/Kg		98	50 - 150	3	30
Surrogate	LCSD LCSD		Limits			%Rec	%Rec. Limits		
	%Recovery	Qualifier							
DCB Decachlorobiphenyl (Surr)	82		20 - 155						

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

GC Semi VOA

Prep Batch: 195986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-6	SB-58-6	Total/NA	Solid	3546	
570-74572-12	SB-60-6	Total/NA	Solid	3546	
570-74572-15	SB-61-6	Total/NA	Solid	3546	
570-74572-18	SB-62-6	Total/NA	Solid	3546	
570-74572-21	SB-63-6	Total/NA	Solid	3546	
570-74572-24	SB-64-6	Total/NA	Solid	3546	
570-74572-27	SB-65-6	Total/NA	Solid	3546	
MB 570-195986/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-195986/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-195986/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 196250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-195986/1-A	Method Blank	Total/NA	Solid	8082	195986
LCS 570-195986/2-A	Lab Control Sample	Total/NA	Solid	8082	195986
LCSD 570-195986/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	195986

Analysis Batch: 196580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-74572-6	SB-58-6	Total/NA	Solid	8082	195986
570-74572-12	SB-60-6	Total/NA	Solid	8082	195986
570-74572-15	SB-61-6	Total/NA	Solid	8082	195986
570-74572-18	SB-62-6	Total/NA	Solid	8082	195986
570-74572-21	SB-63-6	Total/NA	Solid	8082	195986
570-74572-24	SB-64-6	Total/NA	Solid	8082	195986
570-74572-27	SB-65-6	Total/NA	Solid	8082	195986

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Client Sample ID: SB-58-6

Date Collected: 11/02/21 08:20

Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.00 g	10 mL	195986	11/22/21 19:09	USUL	ECL 1
Total/NA	Analysis	8082		1			196580	11/24/21 09:20	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-60-6

Date Collected: 11/02/21 09:25

Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	195986	11/22/21 19:09	USUL	ECL 1
Total/NA	Analysis	8082		1			196580	11/24/21 09:39	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-61-6

Date Collected: 11/02/21 09:40

Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	195986	11/22/21 19:09	USUL	ECL 1
Total/NA	Analysis	8082		1			196580	11/24/21 09:58	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-62-6

Date Collected: 11/02/21 09:52

Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.97 g	10 mL	195986	11/22/21 19:09	USUL	ECL 1
Total/NA	Analysis	8082		1			196580	11/24/21 10:17	UHHN	ECL 1
Instrument ID: GC31										

Client Sample ID: SB-63-6

Date Collected: 11/02/21 10:06

Date Received: 11/02/21 13:47

Lab Sample ID: 570-74572-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.03 g	10 mL	195986	11/22/21 19:09	USUL	ECL 1
Total/NA	Analysis	8082		1			196580	11/24/21 10:36	UHHN	ECL 1
Instrument ID: GC31										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Client Sample ID: SB-64-6

Lab Sample ID: 570-74572-24

Date Collected: 11/02/21 10:25

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.00 g	10 mL	195986	11/22/21 19:09	USUL	ECL 1
Total/NA	Analysis	8082		1			196580	11/24/21 10:55	UHNN	ECL 1

Instrument ID: GC31

Client Sample ID: SB-65-6

Lab Sample ID: 570-74572-27

Date Collected: 11/02/21 10:38

Matrix: Solid

Date Received: 11/02/21 13:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	195986	11/22/21 19:09	USUL	ECL 1
Total/NA	Analysis	8082		1			196580	11/24/21 11:14	UHNN	ECL 1

Instrument ID: GC31

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-13

Job ID: 570-74572-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-74572-6	SB-58-6	Solid	11/02/21 08:20	11/02/21 13:47
570-74572-12	SB-60-6	Solid	11/02/21 09:25	11/02/21 13:47
570-74572-15	SB-61-6	Solid	11/02/21 09:40	11/02/21 13:47
570-74572-18	SB-62-6	Solid	11/02/21 09:52	11/02/21 13:47
570-74572-21	SB-63-6	Solid	11/02/21 10:06	11/02/21 13:47
570-74572-24	SB-64-6	Solid	11/02/21 10:25	11/02/21 13:47
570-74572-27	SB-65-6	Solid	11/02/21 10:38	11/02/21 13:47

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Nguyen, Tina

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Monday, November 22, 2021 2:16 PM
To: Nguyen, Tina
Cc: Nowak, Stephen
Subject: RE: Eurofins Calscience report and EDD files from 570-74572-1 Batavia / SC1123-13

EXTERNAL EMAIL*

Thanks Tina! Please disregard that one; I believe they hit refusal and could not go deeper there.

-Brian

From: Nguyen, Tina <Tina.Nguyen@eurofinset.com>
Sent: Monday, November 22, 2021 2:12 PM
To: Brian G. Rockwell <BRockwell@Geosyntec.com>
Cc: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Subject: RE: Eurofins Calscience report and EDD files from 570-74572-1 Batavia / SC1123-13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hi Brian,

Sample SB-68-6 was requested, however, the sample does not exist. Can you please confirm what sample is needed?

Kind Regards,

Tina Nguyen
Project Manager



Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: Tina.Nguyen@eurofinset.com



From: Nguyen, Tina
Sent: Monday, November 22, 2021 2:00 PM
To: Brian G. Rockwell (BRockwell@Geosyntec.com) <BRockwell@Geosyntec.com>
Cc: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Subject: RE: Eurofins Calscience report and EDD files from 570-74572-1 Batavia / SC1123-13

Hi Brian,

I can have this added, please note the samples are outside of hold time. Standard TAT is okay?

Kind Regards,

Tina Nguyen
Project Manager



Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: Tina.Nguyen@eurofinset.com



From: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Sent: Monday, November 22, 2021 1:58 PM
To: Nguyen, Tina <Tina.Nguyen@eurofinset.com>
Subject: FW: Eurofins Calscience report and EDD files from 570-74572-1 Batavia / SC1123-13

From: Brian G. Rockwell >
Sent: Monday, November 22, 2021 1:57:37 PM (UTC-08:00) Pacific Time (US & Canada)
To: Nowak, Stephen <Stephen.Nowak@eurofinset.com>
Subject: RE: Eurofins Calscience report and EDD files from 570-74572-1 Batavia / SC1123-13

EXTERNAL EMAIL*

Hi Steve,

Can you please have the lab go ahead and run samples SB-58-6, SB-60-6, SB-61-6, SB-62-6, SB-63-6, SB-64-6, SB-65-6, and SB-68-6?

Thanks!

-Brian

From: Stephen Nowak <Stephen.Nowak@eurofinset.com>

Sent: Thursday, November 11, 2021 10:26 AM

To: Brian G. Rockwell <BRockwell@Geosyntec.com>; Chad Bird <CBird@Geosyntec.com>; Michael Lambert <MLambert@Geosyntec.com>; Maya Sederholm <MSederholm@Geosyntec.com>

Subject: Eurofins Calscience report and EDD files from 570-74572-1 Batavia / SC1123-13

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Hello,

Attached please find the report and EDD files for job 570-74572-1; Batavia / SC1123-13

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: Stephen.Nowak@eurofinset.com
www.eurofinsus.com/env



Reference: [570-259614]
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

74572



Calscience

CHAIN OF CUSTODY RECORD

DATE: 11/2/2021
 PAGE: 4 OF 4

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494
 For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

LABORATORY CLIENT: Gleosyntec Consultants		CLIENT PROJECT NAME / NUMBER: Batavia / SC1123-13		PO NO: 1000309160							
ADDRESS: 16644 W. Bernardo Dr. Suite 301		PROJECT CONTACT: Brian Rodewell		SAMPLER(S) (PRINT): Brittany Thullen							
CITY: San Diego	STATE: CA	ZIP: 92127									
TEL: 619-309-9549	E-MAIL: Brodewell@gleosyntec.com										
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):											
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD											
GLOBAL ID:		LOG CODE:									
SPECIAL INSTRUCTIONS:											
LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Field Filtered	Preserved	Unpreserved	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO <input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO <input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C8-C14 <input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	<input type="checkbox"/> VOCs (8260) <input type="checkbox"/> Oxygenates (8260) <input type="checkbox"/> Prep (5035). <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core <input type="checkbox"/> SVOCs (8270) <input type="checkbox"/> Pesticides (8081) <input type="checkbox"/> PCBs (8082) <input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM <input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X <input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218 6	Date: 11/2/21 Time: 1347 Date: 11/2/21 Time: 1347 Date: Time:
Relinquished by (Signature): <i>Brittany Thullen</i>		Received by (Signature/Affiliation): <i>ECI</i>									
Relinquished by (Signature):		Received by (Signature/Affiliation):									
Relinquished by (Signature):		Received by (Signature/Affiliation):									



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-74572-2

Login Number: 74572

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Cortez Diaz, Antonio

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-85502-2
Client Project/Site: Batavia / SC1123-17

For:
Geosyntec Consultants, Inc.
16644 West Bernardo Drive
Suite 301
San Diego, California 92127

Attn: Chad Bird



Authorized for release by:
3/15/2022 10:29:17 AM

Stephen Nowak, Project Manager I
(714)895-5494
Stephen.Nowak@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Job ID: 570-85502-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-85502-2

Comments

No additional comments.

Receipt

The samples were received on 2/23/2022 2:36 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

Receipt Exceptions

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): SB-100-3 (570-85502-40)

GC Semi VOA

Method 8082: The following samples were prepared outside of preparation holding time : SB-95-6 (570-85502-9), SB-96-6 (570-85502-12), SB-97-6 (570-85502-15), SB-98-6 (570-85502-18), SB-99-6 (570-85502-21), SB-100-6 (570-85502-24), SB-101-6 (570-85502-27), SB-102-6 (570-85502-30) and SB-103-6 (570-85502-33).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3546: The following samples were prepared outside of preparation holding time per change order : SB-95-6 (570-85502-9), SB-96-6 (570-85502-12), SB-97-6 (570-85502-15), SB-98-6 (570-85502-18), SB-99-6 (570-85502-21), SB-100-6 (570-85502-24), SB-101-6 (570-85502-27), SB-102-6 (570-85502-30), SB-103-6 (570-85502-33), (570-85502-A-9 MS) and (570-85502-A-9 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Client Sample ID: SB-95-6

Lab Sample ID: 570-85502-9

No Detections.

Client Sample ID: SB-96-6

Lab Sample ID: 570-85502-12

No Detections.

Client Sample ID: SB-97-6

Lab Sample ID: 570-85502-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	19000	H	2500	ug/Kg	50		8082	Total/NA

Client Sample ID: SB-98-6

Lab Sample ID: 570-85502-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248 - DL	5000	H	500	ug/Kg	10		8082	Total/NA

Client Sample ID: SB-99-6

Lab Sample ID: 570-85502-21

No Detections.

Client Sample ID: SB-100-6

Lab Sample ID: 570-85502-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	150	H	50	ug/Kg	1		8082	Total/NA

Client Sample ID: SB-101-6

Lab Sample ID: 570-85502-27

No Detections.

Client Sample ID: SB-102-6

Lab Sample ID: 570-85502-30

No Detections.

Client Sample ID: SB-103-6

Lab Sample ID: 570-85502-33

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-95-6
Date Collected: 02/23/22 09:23
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Aroclor-1248	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/13/22 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	86		25 - 126			03/11/22 16:53	03/13/22 23:49	1
DCB Decachlorobiphenyl (Surr)	89		20 - 155			03/11/22 16:53	03/13/22 23:49	1

Client Sample ID: SB-96-6
Date Collected: 02/23/22 09:35
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Aroclor-1248	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		25 - 126			03/11/22 16:53	03/14/22 00:08	1
DCB Decachlorobiphenyl (Surr)	79		20 - 155			03/11/22 16:53	03/14/22 00:08	1

Client Sample ID: SB-97-6
Date Collected: 02/23/22 09:47
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:27	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:27	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:27	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:27	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:27	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:27	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:27	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	84		25 - 126			03/11/22 16:53	03/14/22 00:27	1
DCB Decachlorobiphenyl (Surr)	100		20 - 155			03/11/22 16:53	03/14/22 00:27	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-98-6
Date Collected: 02/23/22 10:48
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-18
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:46	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:46	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:46	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:46	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:46	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:46	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:46	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	84		25 - 126			03/11/22 16:53	03/14/22 00:46	1
DCB Decachlorobiphenyl (Surr)	89		20 - 155			03/11/22 16:53	03/14/22 00:46	1

Client Sample ID: SB-99-6
Date Collected: 02/23/22 10:19
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-21
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Aroclor-1248	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	72		25 - 126			03/11/22 16:53	03/14/22 01:05	1
DCB Decachlorobiphenyl (Surr)	77		20 - 155			03/11/22 16:53	03/14/22 01:05	1

Client Sample ID: SB-100-6
Date Collected: 02/23/22 10:33
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-24
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Aroclor-1248	150	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	89		25 - 126			03/11/22 16:53	03/14/22 01:24	1
DCB Decachlorobiphenyl (Surr)	90		20 - 155			03/11/22 16:53	03/14/22 01:24	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SB-101-6
Date Collected: 02/23/22 10:21
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-27
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Aroclor-1248	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 01:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	90		25 - 126			03/11/22 16:53	03/14/22 01:43	1
DCB Decachlorobiphenyl (Surr)	93		20 - 155			03/11/22 16:53	03/14/22 01:43	1

Client Sample ID: SB-102-6
Date Collected: 02/23/22 11:37
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-30
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Aroclor-1248	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	81		25 - 126			03/11/22 16:53	03/14/22 02:01	1
DCB Decachlorobiphenyl (Surr)	86		20 - 155			03/11/22 16:53	03/14/22 02:01	1

Client Sample ID: SB-103-6
Date Collected: 02/23/22 11:53
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-33
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Aroclor-1221	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Aroclor-1232	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Aroclor-1242	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Aroclor-1248	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Aroclor-1254	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Aroclor-1260	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Aroclor-1262	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Aroclor-1268	ND	H	50	ug/Kg		03/11/22 16:53	03/14/22 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	82		25 - 126			03/11/22 16:53	03/14/22 02:20	1
DCB Decachlorobiphenyl (Surr)	81		20 - 155			03/11/22 16:53	03/14/22 02:20	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Client Sample ID: SB-97-6
Date Collected: 02/23/22 09:47
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	19000	H	2500	ug/Kg	-	03/11/22 16:53	03/14/22 13:03	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	111		25 - 126			03/11/22 16:53	03/14/22 13:03	50
<i>DCB Decachlorobiphenyl (Surr)</i>	142		20 - 155			03/11/22 16:53	03/14/22 13:03	50

Client Sample ID: SB-98-6
Date Collected: 02/23/22 10:48
Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-18
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1248	5000	H	500	ug/Kg	-	03/11/22 16:53	03/14/22 13:21	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	97		25 - 126			03/11/22 16:53	03/14/22 13:21	10
<i>DCB Decachlorobiphenyl (Surr)</i>	115		20 - 155			03/11/22 16:53	03/14/22 13:21	10

Surrogate Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (25-126)	DCB1 (20-155)
570-85502-9	SB-95-6	86	89
570-85502-9 MS	SB-95-6	76	80
570-85502-9 MSD	SB-95-6	82	86
570-85502-12	SB-96-6	74	79
570-85502-15	SB-97-6	84	100
570-85502-15 - DL	SB-97-6	111	142
570-85502-18	SB-98-6	84	89
570-85502-18 - DL	SB-98-6	97	115
570-85502-21	SB-99-6	72	77
570-85502-24	SB-100-6	89	90
570-85502-27	SB-101-6	90	93
570-85502-30	SB-102-6	81	86
570-85502-33	SB-103-6	82	81
LCS 570-218978/2-A	Lab Control Sample	97	98
LCSD 570-218978/3-A	Lab Control Sample Dup	87	88
MB 570-218978/1-A	Method Blank	93	94

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-218978/1-A
Matrix: Solid
Analysis Batch: 219200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218978

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1
Aroclor-1221	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1
Aroclor-1232	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1
Aroclor-1242	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1
Aroclor-1248	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1
Aroclor-1254	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1
Aroclor-1260	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1
Aroclor-1262	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1
Aroclor-1268	ND		50	ug/Kg		03/11/22 16:53	03/13/22 22:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	93		25 - 126	03/11/22 16:53	03/13/22 22:15	1
DCB Decachlorobiphenyl (Surr)	94		20 - 155	03/11/22 16:53	03/13/22 22:15	1

Lab Sample ID: LCS 570-218978/2-A
Matrix: Solid
Analysis Batch: 219200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	100	97.23		ug/Kg		97	50 - 142
Aroclor-1260	100	99.69		ug/Kg		100	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	97		25 - 126
DCB Decachlorobiphenyl (Surr)	98		20 - 155

Lab Sample ID: LCSD 570-218978/3-A
Matrix: Solid
Analysis Batch: 219200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218978

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Aroclor-1016	100	88.74		ug/Kg		89	50 - 142	9	30
Aroclor-1260	100	90.41		ug/Kg		90	50 - 150	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	87		25 - 126
DCB Decachlorobiphenyl (Surr)	88		20 - 155

Lab Sample ID: 570-85502-9 MS
Matrix: Solid
Analysis Batch: 219200

Client Sample ID: SB-95-6
Prep Type: Total/NA
Prep Batch: 218978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor-1016	ND	H	99.5	80.53		ug/Kg		81	20 - 175
Aroclor-1260	ND	H	99.5	88.32		ug/Kg		89	20 - 180

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 570-85502-9 MS
Matrix: Solid
Analysis Batch: 219200

Client Sample ID: SB-95-6
Prep Type: Total/NA
Prep Batch: 218978

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	76		25 - 126
DCB Decachlorobiphenyl (Surr)	80		20 - 155

Lab Sample ID: 570-85502-9 MSD
Matrix: Solid
Analysis Batch: 219200

Client Sample ID: SB-95-6
Prep Type: Total/NA
Prep Batch: 218978

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec.</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
Aroclor-1016	ND	H	100	91.93		ug/Kg		92	20 - 175	13	40
Aroclor-1260	ND	H	100	99.70		ug/Kg		100	20 - 180	12	40

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
Tetrachloro-m-xylene (Surr)	82		25 - 126
DCB Decachlorobiphenyl (Surr)	86		20 - 155



QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

GC Semi VOA

Prep Batch: 218978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85502-9	SB-95-6	Total/NA	Solid	3546	
570-85502-12	SB-96-6	Total/NA	Solid	3546	
570-85502-15 - DL	SB-97-6	Total/NA	Solid	3546	
570-85502-15	SB-97-6	Total/NA	Solid	3546	
570-85502-18 - DL	SB-98-6	Total/NA	Solid	3546	
570-85502-18	SB-98-6	Total/NA	Solid	3546	
570-85502-21	SB-99-6	Total/NA	Solid	3546	
570-85502-24	SB-100-6	Total/NA	Solid	3546	
570-85502-27	SB-101-6	Total/NA	Solid	3546	
570-85502-30	SB-102-6	Total/NA	Solid	3546	
570-85502-33	SB-103-6	Total/NA	Solid	3546	
MB 570-218978/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-218978/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-218978/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-85502-9 MS	SB-95-6	Total/NA	Solid	3546	
570-85502-9 MSD	SB-95-6	Total/NA	Solid	3546	

Analysis Batch: 219200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85502-9	SB-95-6	Total/NA	Solid	8082	218978
570-85502-12	SB-96-6	Total/NA	Solid	8082	218978
570-85502-15	SB-97-6	Total/NA	Solid	8082	218978
570-85502-15 - DL	SB-97-6	Total/NA	Solid	8082	218978
570-85502-18	SB-98-6	Total/NA	Solid	8082	218978
570-85502-18 - DL	SB-98-6	Total/NA	Solid	8082	218978
570-85502-21	SB-99-6	Total/NA	Solid	8082	218978
570-85502-24	SB-100-6	Total/NA	Solid	8082	218978
570-85502-27	SB-101-6	Total/NA	Solid	8082	218978
570-85502-30	SB-102-6	Total/NA	Solid	8082	218978
570-85502-33	SB-103-6	Total/NA	Solid	8082	218978
MB 570-218978/1-A	Method Blank	Total/NA	Solid	8082	218978
LCS 570-218978/2-A	Lab Control Sample	Total/NA	Solid	8082	218978
LCSD 570-218978/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	218978
570-85502-9 MS	SB-95-6	Total/NA	Solid	8082	218978
570-85502-9 MSD	SB-95-6	Total/NA	Solid	8082	218978

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Client Sample ID: SB-95-6

Date Collected: 02/23/22 09:23

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/13/22 23:49	UHHN	ECL 4
Instrument ID: GC64A										

Client Sample ID: SB-96-6

Date Collected: 02/23/22 09:35

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.92 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/14/22 00:08	UHHN	ECL 4
Instrument ID: GC64A										

Client Sample ID: SB-97-6

Date Collected: 02/23/22 09:47

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.98 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/14/22 00:27	UHHN	ECL 4
Instrument ID: GC64A										
Total/NA	Prep	3546	DL		19.98 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082	DL	50			219200	03/14/22 13:03	UHHN	ECL 4
Instrument ID: GC64A										

Client Sample ID: SB-98-6

Date Collected: 02/23/22 10:48

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/14/22 00:46	UHHN	ECL 4
Instrument ID: GC64A										
Total/NA	Prep	3546	DL		20.09 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082	DL	10			219200	03/14/22 13:21	UHHN	ECL 4
Instrument ID: GC64A										

Client Sample ID: SB-99-6

Date Collected: 02/23/22 10:19

Date Received: 02/23/22 14:36

Lab Sample ID: 570-85502-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.04 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/14/22 01:05	UHHN	ECL 4
Instrument ID: GC64A										

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Client Sample ID: SB-100-6

Lab Sample ID: 570-85502-24

Date Collected: 02/23/22 10:33

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.91 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/14/22 01:24	UHHN	ECL 4

Instrument ID: GC64A

Client Sample ID: SB-101-6

Lab Sample ID: 570-85502-27

Date Collected: 02/23/22 10:21

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			19.95 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/14/22 01:43	UHHN	ECL 4

Instrument ID: GC64A

Client Sample ID: SB-102-6

Lab Sample ID: 570-85502-30

Date Collected: 02/23/22 11:37

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.02 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/14/22 02:01	UHHN	ECL 4

Instrument ID: GC64A

Client Sample ID: SB-103-6

Lab Sample ID: 570-85502-33

Date Collected: 02/23/22 11:53

Matrix: Solid

Date Received: 02/23/22 14:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.01 g	10 mL	218978	03/11/22 16:53	SP9M	ECL 1
Total/NA	Analysis	8082		1			219200	03/14/22 02:20	UHHN	ECL 4

Instrument ID: GC64A

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2944	09-30-22

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Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 4
3546	Microwave Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Batavia / SC1123-17

Job ID: 570-85502-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-85502-9	SB-95-6	Solid	02/23/22 09:23	02/23/22 14:36
570-85502-12	SB-96-6	Solid	02/23/22 09:35	02/23/22 14:36
570-85502-15	SB-97-6	Solid	02/23/22 09:47	02/23/22 14:36
570-85502-18	SB-98-6	Solid	02/23/22 10:48	02/23/22 14:36
570-85502-21	SB-99-6	Solid	02/23/22 10:19	02/23/22 14:36
570-85502-24	SB-100-6	Solid	02/23/22 10:33	02/23/22 14:36
570-85502-27	SB-101-6	Solid	02/23/22 10:21	02/23/22 14:36
570-85502-30	SB-102-6	Solid	02/23/22 11:37	02/23/22 14:36
570-85502-33	SB-103-6	Solid	02/23/22 11:53	02/23/22 14:36

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Nowak, Stephen

From: Brian G. Rockwell <BRockwell@Geosyntec.com>
Sent: Friday, March 11, 2022 1:04 PM
To: Nowak, Stephen
Subject: Batavia samples

EXTERNAL EMAIL*

Hi Steve,

Can we go ahead and run the 2 and 4 ft samples from SB-84 (if still available), and the 6 foot samples from SB-95 through 103? All just for PCBs.

Thanks!

Brian Rockwell
(619) 810-4033

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

85502

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Calscience

CHAIN OF CUSTODY RECORD

DATE 2/23/22

PAGE 4 OF 4

2841 Dow Avenue, Suite 100 Tustin, CA 92780-7211 • (714) 895-5494

LABORATORY CLIENT		CLIENT PROJECT NAME / NUMBER		P.O. NO.	
Greasyntec Consultants		Botavia/SC1173-17		1000 34/1133	
ADDRESS		PROJECT CONTACT		SAMPLER(S) (PRINT)	
116644 W. Bernardo Dr. Suite 301		Brian Rockwell Brockwell@greasyntec.com		B. Theilen	
CITY		PROJECT CONTACT		SAMPLER(S) (PRINT)	
116644 San Diego		Maya Sedelholm MSedelholm@greasyntec.com		B. Theilen	
TEL		E-MAIL		REQUESTED ANALYSES	
(619)-309-9549		Brockwell@greasyntec.com		Requested analyses listed below	
TURNAROUND "V" - this surcharges may apply to any TAT not "STANDARD"		STATE		Please check box or fill in blank as needed	
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD		CA		<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 2186 <input type="checkbox"/> T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X <input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM <input type="checkbox"/> PCBs (8082) <input type="checkbox"/> Pesticides (8081) <input type="checkbox"/> SVOCs (8270) <input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core <input type="checkbox"/> Oxygenates (8260) <input type="checkbox"/> VOCs (8260) <input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/> <input type="checkbox"/> TPH <input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44 <input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO <input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	
GLOBAL ID:		LOG CODE:		Field Filtered	
SP		UNPRESERVED		PRESERVED	
SAMPLE ID		SAMPLING DATE		SAMPLING TIME	
NO. OF CONT		MATRIX		NO. OF CONT	
31 SB-103-2		2/23/22		1149	
32 SB-103-4		1149		1153	
33 SB-103-6		1153		1211	
34 SB-104-2		1211		1221	
35 SB-104-4		1221		1241	
36 SB-104-6		1241		1241	
37 SB-105-2		1241		1246	
38 SB-105-4		1246		1246	
39 SB-105-6		1246		1246	
LAB USE ONLY		RECEIVED BY (Signature/Affiliation)		DATE	
31		Brockwell		2/23/22	
32		Brockwell		2/23/22	
33		Brockwell		2/23/22	
34		Brockwell		2/23/22	
35		Brockwell		2/23/22	
36		Brockwell		2/23/22	
37		Brockwell		2/23/22	
38		Brockwell		2/23/22	
39		Brockwell		2/23/22	
LABORATORY USE ONLY		RECEIVED BY (Signature/Affiliation)		DATE	
31		Brockwell		2/23/22	
32		Brockwell		2/23/22	
33		Brockwell		2/23/22	
34		Brockwell		2/23/22	
35		Brockwell		2/23/22	
36		Brockwell		2/23/22	
37		Brockwell		2/23/22	
38		Brockwell		2/23/22	
39		Brockwell		2/23/22	



Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 570-85502-2

Login Number: 85502
List Number: 1
Creator: Vitente, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



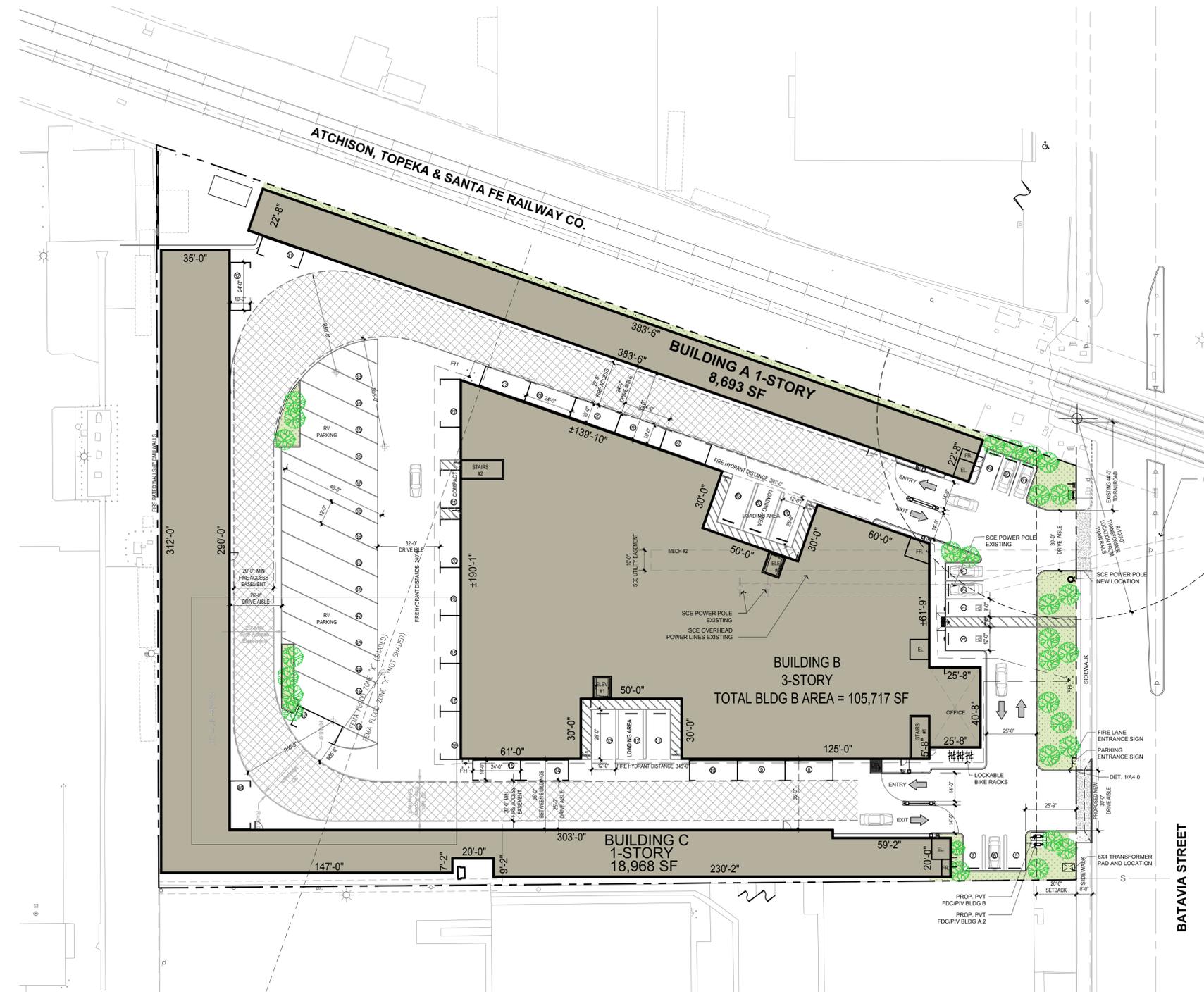
APPENDIX C
Current Site Redevelopment Plan

PARTIAL LIST OF PRELIMINARY CONDITION OF APPROVAL:

- Plans submitted for Building Plan Review shall comply with the California Fire Code as amended by the City and as frequently amended and in effect at the time of application for Building Permit. Onsite fire department access and reciprocal access agreements will require recording prior to issuance of Rough Grading Permit and shall be reviewed by Fire prior to approval.
- Prior to building permit issuance, the applicant shall submit improvement plans to the Water Division for review and approval for any new fire hydrants, domestic water services, fire services, landscape services, and any other proposed improvements or relocations affecting the public water system facilities.
- Prior to issuance of the certificate of occupancy, the applicant shall be responsible for the installation of necessary fire hydrants and fire services as approved by the Fire Department and Water Division.
- Prior to building permit issuance, the Water Division shall approve the type and location of landscaping and fire service (backflow prevention) device for proposed City services.
- Prior to building permit issuance, construction documents shall show that a six foot minimum horizontal clearance and a one foot minimum vertical clearance would be maintained between City water mains, laterals, services, meters, fire hydrants and all other utilities except sewer. The Water Division shall review and approve the construction documents.
- Prior to building permit issuance, construction documents shall show that an eight-foot minimum clearance is provided between City water mains, laterals, services, meters, fire hydrants, signs, or trees or other substantial shrubs and plants as required by the Water Division. The Water Division shall review and approve the construction documents.
- Prior to building permit issuance, construction documents shall show that permanent signs, awning, surface water quality management features or other structures are not built over water mains, laterals, services, meters, or fire hydrants as required by the Water Division.
- Prior to building permit issuance for the first phase of work, the applicant shall be responsible for obtaining approval all of the necessary encroachment permits from affected agencies for all public water construction work.
- Prior to approval of a water improvement plan, the applicant shall satisfy all water main connection, plan check, and inspections charges as determined by the Water Division.
- Prior to the issuance of any grading permit, the applicant shall construct all public and/or private improvements to the satisfaction of the Water Division. The applicant may be required to enter into an agreement with the City of Orange, and post security in a form and amount acceptable to the City Engineer and/or Water Division to ensure construction of said improvements.
- Plans submitted during plan check shall show that the water improvement plans are consistent with the fire suppression plans and or fire master plan. The applicant's consultant preparing the water improvement plans shall coordinate their plans with the consultant preparing the fire suppression plans and/or fire master plan so that their designs concur.
- Plans submitted during plan check shall show that the minimum separation requirements are met and that each of the various designer's plan sets match. The applicant's consultant preparing the improvement and utility plans shall coordinate their plans with the consultants preparing the landscape, architectural, surface water quality management, fire master and/or fire suppression plans so that their designs are consistent.
- At least fourteen calendar days prior to commencing construction, the applicant's civil engineer shall prepare and provide product material submittals consistent with the water improvement plans for all proposed public water system facilities to the Water Division per the City of Orange General Water Construction Notes for review and approval.
- Prior to issuance of certificate of occupancy, the applicant shall furnish and install individual pressure regulators on new services where the incoming pressure exceeds eighty-pounds per square inch

SITE PLAN NOTES:

- Parking lot lighting shall be provided. All lighting must be shielded, screened, or oriented so that the light will not be seen from any point beyond the exterior boundaries of the property per Section 17.12.030.



BUILDING A, B & C
1" = 30'

BATAVIA SELF-STORAGE
630 N BATAVIA ST, ORANGE, CA 92864

SCHEME L A1.1
PRELIMINARY SITE PLAN

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JOB NUMBER: 21-710
SCALE: 1" = 30'
DATE: 01/17/2023

ja
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