

AGREEMENT OF PURCHASE AND SALE FOR REAL ESTATE

by and between
NEW ASIA HOUSING, L.P., a California limited partnership,
as Seller

and

CITY AND COUNTY OF SAN FRANCISCO, a municipal corporation,
as Buyer

For the Purchase and Sale of

758 Pacific Avenue
San Francisco, California

[_____], 2026

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- EXHIBIT B – Grant Deed
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- SCHEDULE 1 – Seller's Environmental Disclosure

AGREEMENT OF PURCHASE AND SALE FOR REAL ESTATE
(758 Pacific Avenue, San Francisco)

THIS AGREEMENT OF PURCHASE AND SALE FOR REAL ESTATE (this "Agreement") dated for reference purposes only as of [_____], 2026 is by and between NEW ASIA HOUSING, L.P., a California limited partnership ("Seller"), and the CITY AND COUNTY OF SAN FRANCISCO, a municipal corporation ("Buyer" or "City").

IN CONSIDERATION of the payment of the Purchase Price (defined below) by City, and the respective agreements contained in this Agreement, Seller and City agree as follows:

1. PURCHASE AND SALE

1.1 Property Included in Sale

Seller agrees to sell and convey to City, and City agrees to purchase from Seller, subject to the terms, covenants and conditions hereinafter set forth, the following:

(a) the real property consisting of approximately 1,950 (0.045) acres of land, located in the City and County of San Francisco, commonly known as 758 Pacific Avenue and more particularly described in Exhibit A attached hereto (the "Land");

(b) all improvements and fixtures located on the Land (collectively the "Improvements"), including without limitation that certain a two-story multiuse building constructed in 1925 with a 1,938 square-foot commercial space on the ground floor, and a 3-bedroom residential unit above;

(c) any and all rights, privileges, and easements incidental or appurtenant to the Land or Improvements, including, without limitation, any and all minerals, oil, gas and other hydrocarbon substances on and under the Land, as well as any and all development rights, air rights, water, water rights, riparian rights and water stock relating to the Land, and any and all easements, rights-of-way or other appurtenances used in connection with the beneficial use and enjoyment of the Land or Improvements, and any and all of Seller's right, title and interest in and to all roads and alleys adjoining or servicing the Land or Improvements (collectively, the "Appurtenances").

All of the items referred to in Subsections (a), (b), and (c) above are collectively referred to as the "Property."

2. PURCHASE PRICE

2.1 Purchase Price

The total purchase price for the Property is Two Million One Hundred Seventy Eight Thousand Seven Hundred Eighty-Six and No/100 Dollars (\$2,178,786) (the "Purchase Price").

2.2 Payment

City previously loaned Two Million One Hundred Seventy Eight Thousand Seven Hundred Eighty-Six and No/100 Dollars (\$2,178,786) (the "City Loan"), which included both the purchase price of and closing costs to acquire the Property.

On the Closing Date (as defined in Section 6.2 Closing Date), City will pay the Purchase Price as a credit toward the unpaid principal balance of the City Loan. City agrees that the remaining balance of the City Loan will be forgiven based on financial feasibility for the Project.

2.3 Funds

Except for the credit as provided in Section 2.2, all payments made by any party to this Agreement shall be in legal tender of the United States of America, paid by Controller's warrant or in cash or by wire transfer of immediately available funds to Title Company (as defined in Section 3.2), as escrow agent.

3. TITLE TO THE PROPERTY

3.1 Conveyance of Title to the Property

At the Closing Seller shall convey to City, or its nominee, marketable and insurable fee simple title to the Land, the Improvements and the Appurtenances, by duly executed and acknowledged grant deed in the form attached hereto as Exhibit B (the "Deed"), subject to the Accepted Conditions of Title (as defined in Section 3.2 Title Insurance).

3.2 Title Insurance

Delivery of title in accordance with the preceding Section shall be evidenced by the commitment of Old Republic Title Insurance Company (the "Title Company") to issue to City an ALTA extended coverage owner's policy of title insurance (Form ALTA 2023 – updated 6/17/2023) (the "Title Policy") in the amount of the Purchase Price, insuring fee simple title to the Land, the Appurtenances and the Improvements in City free of the liens of any and all deeds of trust, mortgages, assignments of rents, financing statements, rights of tenants or other occupants and all other exceptions, liens and encumbrances except solely for the Accepted Conditions of Title pursuant to Section 5.1(a) below. The Title Policy must provide full coverage against mechanics' and materialmen's liens arising out of the construction, repair or alteration of any of the Property, and contain an affirmative endorsement that there are no violations of restrictive covenants, if any, affecting the Property such special endorsements as City may reasonably request.

4. Intentionally Omitted

5. ENTRY

At all times prior to the Closing Date Seller shall afford City and its Agents reasonable access to the Property and all books and records located therein for the purposes of satisfying City with respect to the representations, warranties and covenants of Seller contained herein and the satisfaction of the Conditions Precedent including, without limitation, the drilling of test wells and the taking of soil borings. City hereby agrees to indemnify and hold Seller harmless from any damage or injury to persons or property caused by the active negligence or willful misconduct of City or its Agents during any such entries onto the Property prior to the Closing,

except to the extent such damage or injury is caused by the acts or omissions of Seller or any of its Agents. The foregoing Indemnity shall not include any claims resulting from the discovery or disclosure of pre-existing environmental conditions or the non-negligent aggravation of pre-existing environmental conditions on, in, under or about the Property, including the Improvements. In the event this Agreement is terminated for any reason other than Seller's default hereunder, City shall restore the Property to substantially the condition it was found subject to applicable laws. This indemnity shall survive the termination of this Agreement or the Closing, as applicable, provided that Seller must give notice of any claim it may have against City under such indemnity (i) within six (6) months of such termination if the claim is brought by a third party against Seller or (ii) within three (3) months of such termination or the Closing Date, as applicable, if the claim involves damage to Seller's Property or any other claim not brought by a third party against the Seller.

5.1 City's Conditions to Closing

The following are conditions precedent to City's obligation to purchase the Property (collectively, "Conditions Precedent"):

(a) City shall have reviewed and approved title to the Property, as follows:

(i) Within seven (7) days after the date City and Seller execute this Agreement, Seller shall deliver to City a current extended coverage preliminary report on the Real Property, issued by Title Company, accompanied by copies of all documents referred to in the report (collectively, the "Preliminary Report");

(ii) Within the period referred to in clause (i) above, Seller shall deliver to Buyer copies of any existing or proposed easements, covenants, restrictions, agreements or other documents that affect the Property, and are not disclosed by the Preliminary Report; and

(iii) City may at its option arrange for an "as-built" survey of the Real Property and Improvements prepared by a licensed surveyor (the "Survey"). Such survey shall be acceptable to, and certified to, City and Title Company and in sufficient detail to provide the basis for and the Title Policy without boundary, encroachment or survey exceptions.

(iv) City shall advise Seller, prior to Closing, what exceptions to title, if any, City is willing to accept (the "Accepted Conditions of Title"). City's failure to so advise Seller within such period shall be deemed disapproval of title. Seller shall have ten (10) days after receipt of City's notice of any objections to title to give City: (A) evidence satisfactory to City of the removal of all objectionable exceptions from title or that such exceptions will be removed or cured on or before the Closing; or (B) notice that Seller elects not to cause such exceptions to be removed. If Seller gives notice under clause (B), City shall have ten (10) business days to elect to proceed with the purchase or terminate this Agreement. If City shall fail to give Seller notice of its election within such ten (10) days, City shall be deemed to have elected to terminate this Agreement. If Seller gives notice pursuant to clause (A) and fails to remove any such objectionable exceptions from title prior to the Closing Date, and City is

unwilling to take title subject thereto, Seller shall be in default hereunder and City shall have the rights and remedies provided herein or at law or in equity.

(b) City's review and approval of the physical and environmental conditions of the Property, including, without limitation, structural, mechanical, electrical and other physical conditions of the Property. Such review may include an examination for the presence or absence of any Hazardous Material (as defined in Section 8.1(j))

(c) City's review and approval of the compliance of the Property with all applicable laws, regulations, permits and approvals.

(d) City's review and approval of **(i)** the following documents, all to the extent such documents exist and are either in the possession or control of Seller or may be obtained by Seller through the exercise of commercially reasonable efforts: structural calculations for the Improvements; site plans; certified copies of the as-built plans and specifications for the Improvements; recent inspection reports by Seller's engineers; service contracts; utility contracts; maintenance contracts; employment contracts, management contracts; brokerage and leasing commission agreements which may continue after Closing; certificates of occupancy; presently effective warranties or guaranties received by Seller from any contractors, subcontractors, suppliers or materialmen in connection with any construction, repair or alteration of the Improvements or any tenant improvements; insurance policies, insurance certificates of tenants, and reports of insurance carriers insuring the Property and each portion thereof respecting the claims history of the Property; environmental reports, studies, surveys, tests and assessments; soils and geotechnical reports; and any other contracts or documents of significance to the Property (collectively, the "Documents"); and **(ii)** such other information relating to the Property that is specifically requested by City of Seller in writing before the Closing (collectively, the "Other Information").

(e) Seller shall not be in default in the performance of any covenant or agreement to be performed by Seller under this Agreement, and all of Seller's representations and warranties contained in or made pursuant to this Agreement shall have been true and correct when made and shall be true and correct as of the Closing Date.

(f) The physical condition of the Property shall be substantially the same on the Closing Date as on the date of City's execution of this Agreement, reasonable wear and tear and loss by casualty excepted (subject to the provisions of Section 9.1 Risk of Loss), and, as of the Closing Date, there shall be no litigation or administrative agency or other governmental proceeding, pending or threatened, which after the Closing would materially adversely affect the value of the Property or the ability of City to operate the Property for its intended use, and no proceedings shall be pending or threatened which could or would cause the change, redesignation or other modification of the zoning classification of, or of any building or environmental code requirements applicable to, any of the Property.

(g) Title Company shall be committed at the Closing to issue to City, or its nominee, (i) the Title Policy as provided in Section 3.2 Title Insurance

(h) The City's Mayor and the Board of Supervisors, in the respective sole discretion of each, shall have enacted a resolution approving, adopting and authorizing this Agreement and the transactions, on or before Closing Date.

(i) Seller shall have delivered the items described in Section 6.3 below Seller's Delivery of Documents on or before the Closing.

(j) Title Company shall have agreed to be the real estate reporting person for the Closing in compliance with the Reporting Requirements (as defined in Section 6.6 [Title Company as Real Estate Reporting Person] below).

The Conditions Precedent contained in the foregoing Subsections (a) through (j) are solely for the benefit of City. If any Condition Precedent is not satisfied, City shall have the right in its sole discretion either to waive in writing the Condition Precedent in question and proceed with the purchase or, in the alternative, terminate this Agreement, provided that the Conditions Precedent described in items h and j above may not be waived. The waiver of any Condition Precedent shall not relieve Seller of any liability or obligation with respect to any representation, warranty, covenant or agreement of Seller. In addition, the Closing Date may be extended, at City's option, for a reasonable period of time specified by City, to allow such Conditions Precedent to be satisfied, subject to City's further right to terminate this Agreement upon the expiration of the period of any such extension if all such Conditions Precedent have not been satisfied.

In the event the sale of the Property is not consummated because of a default under this Agreement on the part of Seller or if a Condition Precedent cannot be fulfilled because Seller frustrated such fulfillment by some affirmative act or negligent omission, City may, at its sole election, either (1) terminate this Agreement by delivery of notice of termination to Seller, whereupon Seller shall pay to City any title, escrow, legal and inspection fees incurred by City and any other expenses incurred by City in connection with the performance of its due diligence review of the Property, and neither party shall have any further rights or obligations hereunder, or (2) continue this Agreement pending City's action for specific performance and/or damages hereunder, including, without limitation, City's costs and expenses incurred hereunder.

5.2 Cooperation with City

Seller shall cooperate with City and do all acts as may be reasonably requested by City with regard to the fulfillment of any Conditions Precedent including, without limitation, execution of any documents, applications or permits, but Seller's representations and warranties to City shall not be affected or released by City's waiver or fulfillment of any Condition Precedent. Seller hereby irrevocably authorizes City and its Agents to make all inquiries with and applications to any person or entity, including, without limitation, any regulatory authority with jurisdiction as City may reasonably require to complete its due diligence investigations.

5.3 Seller's Conditions to Closing

The following is a condition precedent to Seller's obligation to sell the Property: City and Seller shall have executed a ground lease pursuant to which City shall ground lease the Property

to Seller for the purposes of constructing and operating an affordable housing project (the "Ground Lease").

6. ESCROW AND CLOSING

6.1 Opening of Escrow

On or before the Effective Date (as defined in Article 11 General Provisions), the parties shall open escrow by depositing an executed counterpart of this Agreement with Title Company, and this Agreement shall serve as instructions to Title Company as the escrow holder for consummation of the purchase and sale contemplated hereby. Seller and City agree to execute such additional or supplementary instructions as may be appropriate to enable the escrow holder to comply with the terms of this Agreement and close the transaction; provided, however, that in the event of any conflict between the provisions of this Agreement and any additional supplementary instructions, the terms of this Agreement shall control.

6.2 Closing Date

The consummation of the purchase and sale contemplated hereby (the "Closing") shall be held and delivery of all items to be made at the Closing under the terms of this Agreement shall be made at the offices of Title Company located at 275 Battery Street, Suite 750, San Francisco, California 94111, on [_____], 2026, or on such earlier date as City and Seller may mutually agree (the "Closing Date"), subject to the provisions of Article 5 Conditions Precedent. The Closing Date may not be extended without the prior written approval of both Seller and City, except as otherwise expressly provided in this Agreement. In the event the Closing does not occur on or before the Closing Date, Title Company shall, unless it is notified by both parties to the contrary within five (5) days after the Closing Date, return to the depositor thereof items which may have been deposited hereunder. Any such return shall not, however, limit the provisions hereof or otherwise relieve either party hereto of any liability it may have for its wrongful failure to close.

6.3 Seller's Delivery of Documents

At or before the Closing, Seller shall deliver to City through escrow, the following:

- (a) a duly executed and acknowledged Deed;
- (b) originals of the Documents and any other items relating to the ownership or operation of the Property not previously delivered to City;
- (c) a properly executed affidavit pursuant to Section 1445(b)(2) of the Federal Tax Code in the form attached hereto as Exhibit C, and on which City is entitled to rely, that Seller is not a "foreign person" within the meaning of Section 1445(f)(3) of the Federal Tax Code;
- (d) a properly executed California Franchise Tax Board Form 590 certifying that Seller is a California resident if Seller is an individual or Seller has a permanent place of business in California or is qualified to do business in California if Seller is a corporation or other evidence satisfactory to City that Seller is exempt from the withholding requirements of Section 18662 of the State Tax Code;
- (e) such resolutions, authorizations, or other partnership documents or agreements relating to Seller and its partners as City or the Title Company may reasonably

require to demonstrate the authority of Seller to enter into this Agreement and consummate the transactions contemplated hereby, and such proof of the power and authority of the individuals executing any documents or other instruments on behalf of Seller to act for and bind Seller;

(f) closing statement in form and content satisfactory to City and Seller;

(g) a duly executed and acknowledged Memorandum of Ground Lease and a duly executed Ground Lease; and

(h) the duly executed certificate regarding the continued accuracy of Seller's representations and warranties as required by Section 5.1 hereof.

6.4 City's Delivery of Documents and Funds

At or before the Closing, City shall deliver to Seller through escrow the following:

(a) an acceptance of the Deed executed by City's Director of Property;

(b) a closing statement in form and content satisfactory to City and Seller; and

(c) a duly executed and acknowledged Memorandum of Ground Lease and a duly executed Ground Lease.

6.5 Other Documents

Seller and City shall each deposit such other instruments as are reasonably required by Title Company as escrow holder or otherwise required to close the escrow and consummate the purchase of the Property in accordance with the terms hereof.

6.6 Title Company as Real Estate Reporting Person

Section 6045(e) of the United States Internal Revenue Code of 1986 and the regulations promulgated thereunder (collectively, the "Reporting Requirements") require that certain information be made to the United States Internal Revenue Service, and a statement to be furnished to Seller, in connection with the Closing. Seller and City agree that if the Closing occurs, Title Company will be the party responsible for closing the transaction contemplated in this Agreement and is hereby designated as the real estate reporting person (as defined in the Reporting Requirements) for such transaction. Title Company shall perform all duties required of the real estate reporting person for the Closing under the Reporting Requirements, and Seller and City shall each timely furnish Title Company with any information reasonably requested by Title Company and necessary for the performance of its duties under the Reporting Requirements with respect to the Closing.

7. EXPENSES AND TAXES

7.1 Apportionments

The following are to be apportioned through escrow as of the Closing Date:

(a) Utility Charges

Seller shall cause all the utility meters to be read on the Closing Date, and will be responsible for the cost of all utilities used prior to the Closing Date. All utility deposits paid by Seller shall remain the property of Seller and City shall reasonably cooperate to cause such deposits to be returned to Seller to the extent Seller is entitled thereto.

(b) Other Apportionments

Amounts payable under any contracts assumed pursuant hereto, annual or periodic permit or inspection fees (calculated on the basis of the period covered), and liability for other normal Property operation and maintenance expenses and other recurring costs shall be apportioned as of the Closing Date.

7.2 Closing Costs

Seller shall pay the cost of the Survey, if any, the premium for the Title Policy and the cost of the endorsements thereto, and escrow and recording fees. Seller shall pay the cost of any transfer taxes applicable to the sale. Seller shall be responsible for all costs incurred in connection with the prepayment or satisfaction of any loan, bond or other indebtedness secured by the Property including, without limitation, any prepayment fees, penalties or charges. Any other costs and charges of the escrow for the sale not otherwise provided for in this Section or elsewhere in this Agreement shall be allocated in accordance with the closing customs for San Francisco County, as determined by Title Company.

7.3 Real Estate Taxes and Special Assessments

General real estate taxes payable for the tax year prior to year of Closing and all prior years shall be paid by Seller at or before the Closing. General real estate taxes payable for the tax year of the Closing shall be prorated through escrow by Seller and City as of the Closing Date. At or before the Closing, Seller shall pay the full amount of any special assessments against the Property, including, without limitation, interest payable thereon, applicable to the period prior the Closing Date.

7.4 Post-Closing Reconciliation

If any of the foregoing prorations cannot be calculated accurately on the Closing Date, then they shall be calculated as soon after the Closing Date as feasible. Either party owing the other party a sum of money based on such subsequent prorations shall promptly pay such sum to the other party.

7.5 Survival

The provisions of this Section shall survive the Closing.

8. REPRESENTATIONS AND WARRANTIES

8.1 Representations and Warranties of Seller

Seller represents and warrants to and covenants with City as follows:

(a) To the best of Seller's knowledge, there are now, and at the time of the Closing will be, no material physical or mechanical defects of the Property, and no violations of any laws, rules or regulations applicable to the Property, including, without limitation, any earthquake, life safety and handicap laws (including, but not limited to, the Americans with Disabilities Act).

(b) The Documents and Other Information furnished to City are all of the relevant documents and information pertaining to the condition and operation of the Property to the extent available to Seller, and are and at the time of Closing will be true, correct and complete copies of such documents.

(c) No document or instrument furnished or to be furnished by the Seller to the City in connection with this Agreement contains or will contain any untrue statement of material fact or omits or will omit a material fact necessary to make the statements contained therein not misleading, under the circumstances under which any such statement shall have been made; provided however that for any documents or instruments furnished by Seller that were prepared by a third party, such representation shall only be to the best of Seller's knowledge.

(d) Seller does not have knowledge of any condemnation, either instituted or planned to be instituted by any governmental or quasi-governmental agency other than City, which could detrimentally affect the use, operation or value of the Property.

(e) There are no easements or rights of way which have been acquired by prescription or which are otherwise not of record with respect to the Property, and there are no easements, rights of way, permits, licenses or other forms of agreement which afford third parties the right to traverse any portion of the Property to gain access to other real property. There are no disputes with regard to the location of any fence or other monument of the Property's boundary nor any claims or actions involving the location of any fence or boundary.

(f) There is no litigation pending or, after due and diligent inquiry, to the best of Seller's knowledge, threatened, against Seller or any basis therefor that arises out of the ownership of the Property or that might detrimentally affect the use or operation of the Property for its intended purpose or the value of the Property or the ability of Seller to perform its obligations under this Agreement.

(g) Seller is the legal and equitable owner of the Property, with full right to convey the same, and without limiting the generality of the foregoing, Seller has not granted any option or right of first refusal or first opportunity to any third party to acquire any interest in any of the Property.

(h) Seller is a California limited partnership duly organized and validly existing under the laws of the State of California and is in good standing under the laws of the

State of California; this Agreement and all documents executed by Seller which are to be delivered to City at the Closing are, or at the Closing will be, duly authorized, executed and delivered by Seller, are, or at the Closing will be, legal, valid and binding obligations of Seller, enforceable against Seller in accordance with their respective terms, are, and at the Closing will be, sufficient to convey good and marketable title (if they purport to do so), and do not, and at the Closing will not, violate any provision of any agreement or judicial order to which Seller is a party or to which Seller or the Property is subject.

(i) Seller represents and warrants to City that it has not been suspended, disciplined or disbarred by, or prohibited from contracting with, any federal, state or local governmental agency. In the event Seller has been so suspended, disbarred, disciplined or prohibited from contracting with any governmental agency, it shall immediately notify the City of same and the reasons therefore together with any relevant facts or information requested by City. Any such suspension, debarment, discipline or prohibition may result in the termination or suspension of this Agreement.

(j) Seller knows of no facts nor has Seller failed to disclose any fact that would prevent City from using and operating the Property after Closing in the normal manner in which it is intended.

(k) Seller hereby represents and warrants to and covenants with City that the following statements are true and correct and will be true and correct as of the Closing Date: (i) neither the Property nor to the best of Seller's knowledge any real estate in the vicinity of the Property is in violation of any Environmental Laws; (ii) the Property is not now, nor to the best of Seller's knowledge has it ever been, used in any manner for the manufacture, use, storage, discharge, deposit, transportation or disposal of any Hazardous Material, except as described in Schedule 1 ("Environmental Site Assessments"); (iii) there has been no release and there is no threatened release of any Hazardous Material in, on, under or about the Property during the time Seller has owned the Property; (iv) there have not been and there are not now any underground storage tanks, septic tanks or wells or any aboveground storage tanks at any time used to store Hazardous Material located in, on or under the Property, or if there have been or are any such tanks or wells located on the Property, their location, type, age and content has been specifically identified in Schedule 1, they have been properly registered with all appropriate authorities, they are in full compliance with all applicable statutes, ordinances and regulations, and they have not resulted in the release or threatened release of any Hazardous Material into the environment; (v) the Property does not consist of any landfill or of any building materials that contain Hazardous Material; and (vi) the Property is not subject to any claim by any governmental regulatory agency or third party related to the release or threatened release of any Hazardous Material, and, to the best of Seller's knowledge, there is no inquiry by any governmental agency (including, without limitation, the California Department of Toxic Substances Control or the Regional Water Quality Control Board) with respect to the presence of Hazardous Material in, on, under or about the Property, or the migration of Hazardous Material from or to other property. As used herein, the following terms shall have the meanings below:

(i) "Environmental Laws" shall mean any present or future federal, state or local laws, ordinances, regulations or policies relating to Hazardous Material (including, without limitation, their use, handling, transportation, production, disposal, discharge or storage)

or to health and safety, industrial hygiene or environmental conditions in, on, under or about the Property, including, without limitation, soil, air and groundwater conditions.

(ii) "Hazardous Material" shall mean any material that, because of its quantity, concentration or physical or chemical characteristics, is deemed by any federal, state or local governmental authority to pose a present or potential hazard to human health or safety or to the environment. Hazardous Material includes, without limitation, any material or substance defined as a "hazardous substance," or "pollutant" or "contaminant" pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 ("CERCLA", also commonly known as the "Superfund" law), as amended, (42 U.S.C. Section 9601 et seq.) or pursuant to Section 25281 of the California Health & Safety Code; any "hazardous waste" listed pursuant to Section 25140 of the California Health & Safety Code; any asbestos and asbestos containing materials whether or not such materials are part of the structure of the Improvements or are naturally occurring substances on or about the Property; petroleum, including crude oil or any fraction thereof, natural gas or natural gas liquids; and "source," "special nuclear" and "by-product" material as defined in the Atomic Energy Act of 1985, 42 U.S.C. Section 3011 et seq.

(iii) "Release" or "threatened release" when used with respect to Hazardous Material shall include any actual or imminent spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into or inside any of the improvements, or in, on, under or about the Property. Release shall include, without limitation, "release" as defined in Section 101 of the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. Section 9601).

(l) Except for the existing leases previously disclosed by Seller, which will be terminated before Closing, there are now, and at the time of Closing will be, no leases or other occupancy agreements affecting any of the Property. At the time of Closing there will be no outstanding written or oral contracts made by Seller for any of the Improvements that have not been fully paid for and Seller shall cause to be discharged all mechanics' or materialmen's liens arising from any labor or materials furnished to the Property prior to the time of Closing. There are no obligations in connection with the Property which will be binding upon City after Closing except for matters that are set forth in the Preliminary Report.

(m) Seller is not a "foreign person" within the meaning of Section 1445(f)(3) of the Federal Tax Code.

8.2 Indemnity

Seller, on behalf of itself and its successors and assigns, hereby agrees to indemnify, defend and hold harmless City, its Agents and their respective successors and assigns, from and against any and all liabilities, claims, demands, damages, liens, costs, penalties, losses and expenses, including, without limitation, reasonable attorneys' and consultants' fees, resulting from any misrepresentation or breach of warranty or breach of covenant made by Seller in this Agreement or in any document, certificate, or exhibit given or delivered to City pursuant to or in connection with this Agreement. The foregoing indemnity includes, without limitation, costs incurred in connection with the investigation of site conditions and all activities required to locate, assess, evaluate, remediate, cleanup, remove, contain, treat, stabilize, monitor or

otherwise control any Hazardous Material. The indemnification provisions of this Section shall survive beyond the Closing, or, if title is not transferred pursuant to this Agreement, beyond any termination of this Agreement.

9. RISK OF LOSS AND POSSESSION

9.1 Risk of Loss

If any of the Property is damaged or destroyed prior to the Closing Date, or if condemnation proceedings are commenced against any of the Property, then the rights and obligations of Seller and City hereunder shall be as follows:

(a) If such damage or destruction is fully covered by Seller's insurance except for the deductible amount thereunder, and the insurer agrees to timely pay for the entire cost of such repair, and such damage or destruction would cost less than One Hundred Thousand and No/100 Dollars (\$100,000.00) (the "Threshold Damage Amount") to repair or restore, then this Agreement shall remain in full force and effect and City shall acquire the Property upon the terms and conditions set forth herein. In such event, City shall receive a credit against the Purchase Price equal to such deductible amount, and Seller shall assign to City at Closing all of Seller's right, title and interest in and to all proceeds of insurance on account of such damage or destruction pursuant to an instrument satisfactory to City.

(b) If such damage or destruction is not fully covered by Seller's insurance, other than the deductible amount, and would cost less than the Threshold Damage Amount to repair or restore, then the transaction contemplated by this Agreement shall be consummated with City receiving a credit against the Purchase Price at the Closing in an amount reasonably determined by Seller and City (after consultation with unaffiliated experts) to be the cost of repairing such damage or destruction.

(c) If the cost of such damage or destruction would equal or exceed the Threshold Damage Amount, or if condemnation proceedings are commenced against any of the Property, then, City shall have the right, at its election, either to terminate this Agreement in its entirety, or only as to that portion of the Property damaged or destroyed or subject to condemnation proceedings (in which case there shall be an equitable adjustment to the Purchase Price), or to not terminate this Agreement and purchase the Property (or the portion not damaged or affected by condemnation, as the case may be). City shall have thirty (30) days after Seller notifies City that an event described in this Subsection (c) has occurred to make such election by delivery to Seller of an election notice. City's failure to deliver such notice within such thirty (30)-day period shall be deemed City's election to terminate this Agreement in its entirety. If this Agreement is terminated in its entirety or in part pursuant to this Subsection (c) by City's delivery of notice of termination to Seller, then City and Seller shall each be released from all obligations hereunder pertaining to that portion of the Property affected by such termination. If City elects not to terminate this Agreement, Seller shall notify City of Seller's intention to repair such damage or destruction, in which case this Agreement shall remain in full force and effect, or notify City of Seller's intention to give City a credit against the Purchase Price at the Closing in the amount reasonably determined by City and Seller (after consultation with unaffiliated experts) to be the cost of repairing such damage or destruction and, in the event of a result of

such condemnation proceeding, the value of any Property taken as a result of such proceeding, in which case this Agreement shall otherwise remain in full force and effect, and Seller shall be entitled to any proceeds of insurance or condemnation awards. Any repairs elected to be made by Seller pursuant to this Subsection shall be made within one hundred eighty (180) days following such damage or destruction and the Closing shall be extended until the repairs are substantially completed. As used in this Section, the cost to repair or restore shall include the cost of lost rental revenue, including additional rent and base rent.

9.2 Insurance

Through the Closing Date, Seller shall maintain or cause to be maintained, at Seller's sole cost and expense, a policy or policies of property insurance in amounts equal to the full replacement value of the Improvements and the Personal Property, insuring against all insurable risks, including, without limitation, fire, vandalism, malicious mischief, lightning, windstorm, water, and other perils customarily covered by casualty insurance and the costs of demolition and debris removal. Seller shall furnish City with evidence of such insurance upon request by City.

9.3 Possession

Possession of the Property shall be delivered to City on the Closing Date vacant and free of tenants or other occupants.

10. MAINTENANCE; CONSENT TO NEW CONTRACTS

10.1 Maintenance of the Property by Seller

Between the date of Seller's execution of this Agreement and the Closing, Seller shall maintain the Property in good order, condition and repair, reasonable wear and tear excepted, and shall make all repairs, maintenance and replacements of the Improvements and otherwise operate the Property in the same manner as before the making of this Agreement, as if Seller were retaining the Property.

10.2 City's Consent to New Contracts Affecting the Property; Termination of Existing Contracts

After the Effective Date, Seller shall not enter into any lease or contract, or any amendment thereof, or permit any tenant of the Property to enter into any sublease, assignment or agreement pertaining to the Property, without in each instance obtaining City's prior written consent thereto. City agrees that it shall not unreasonably withhold or delay any such consent. Except for any agreements related to the development of the Project (which will not be assumed by the City but will encumber the Seller's leasehold interest in the Property), Seller shall terminate prior to the Closing, at no cost or expense to City, any and all management agreements affecting the Property that City does not agree in writing prior to the Closing to assume.

11. GENERAL PROVISIONS

11.1 Notices

Any notice, consent or approval required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been given upon (i) hand delivery, against receipt, (ii) one (1) day after being deposited with a reliable overnight courier service, or (iii) two (2) days after being deposited in the United States mail, registered or certified mail, postage prepaid, return receipt required, and addressed as follows:

City:

Real Estate Division
City and County of San Francisco
25 Van Ness Avenue, Suite 400
San Francisco, California 94102
Attn: Director of Property
Re: 758 Pacific Avenue

with copy to:

Office of the City Attorney
City Hall, Room 234
1 Dr. Carlton B. Goodlett Place
San Francisco, CA 94102-4682
Attn: Real Estate Finance Team
Re: 758 Pacific Avenue

Seller:

New Asia Housing, L.P.
c/o CCDC
615 Grant Avenue
San Francisco, CA 94108

with a copy to:

Erica Williams Orcharton
Gubb & Barshay LLP
235 Montgomery Street, Suite 1110
San Francisco, CA 94104

or to such other address as either party may from time to time specify in writing to the other upon five (5) days prior written notice in the manner provided above. For convenience of the parties, copies of notices may also be given by telefacsimile, to the telephone number listed above, or such other numbers as may be provided from time to time. However, neither party may give official or binding notice by facsimile. The effective time of a notice shall not be affected by the receipt, prior to receipt of the original, of a telefacsimile copy of the notice.

11.2 Brokers and Finders

Neither party has had any contact or dealings regarding the Property, or any communication in connection with the subject matter of this transaction, through any licensed real estate broker or other person who could claim a right to a commission or finder's fee in connection with the purchase and sale contemplated herein. In the event that any broker or finder perfects a claim for a commission or finder's fee based upon any such contact, dealings or

communication, the party through whom the broker or finder makes his or her claim shall be responsible for such commission or fee and shall indemnify and hold harmless the other party from all claims, costs, and expenses (including, without limitation, reasonable attorneys' fees and disbursements) incurred by the indemnified party in defending against the same. The provisions of this Section shall survive the Closing.

11.3 Successors and Assigns

This Agreement shall be binding upon, and inure to the benefit of, the parties hereto and their respective successors, heirs, administrators and assigns.

11.4 Amendments

Except as otherwise provided herein, this Agreement may be amended or modified only by a written instrument executed by City and Seller.

11.5 Continuation and Survival of Representations and Warranties

All representations and warranties by the respective parties contained herein or made in writing pursuant to this Agreement are intended to be, and shall remain, true and correct as of the Closing, shall be deemed to be material, and, together with all conditions, covenants and indemnities made by the respective parties contained herein or made in writing pursuant to this Agreement (except as otherwise expressly limited or expanded by the terms of this Agreement), shall survive the execution and delivery of this Agreement and the Closing, or, to the extent the context requires, beyond any termination of this Agreement. All statements contained in any certificate or other instrument delivered at any time by or on behalf of Seller in conjunction with the transaction contemplated hereby shall constitute representations and warranties hereunder.

11.6 Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the State of California.

11.7 Merger of Prior Agreements

The parties intend that this Agreement (including all of the attached exhibits and schedules, which are incorporated into this Agreement by reference) shall be the final expression of their agreement with respect to the subject matter hereof and may not be contradicted by evidence of any prior or contemporaneous oral or written agreements or understandings. The parties further intend that this Agreement shall constitute the complete and exclusive statement of its terms and that no extrinsic evidence whatsoever (including, without limitation, prior drafts or changes therefrom) may be introduced in any judicial, administrative or other legal proceeding involving this Agreement.

11.8 Parties and Their Agents; Approvals

The term "Seller" as used herein shall include the plural as well as the singular. If there is more than one (1) Seller, then the obligations under this Agreement imposed on Seller shall be

joint and several. As used herein, the term "Agents" when used with respect to either party shall include the agents, employees, officers, contractors and representatives of such party. All approvals, consents or other determinations permitted or required by City hereunder shall be made by or through City's Director of Property unless otherwise provided herein, subject to applicable law.

11.9 Interpretation of Agreement

The article, section and other headings of this Agreement and the table of contents are for convenience of reference only and shall not affect the meaning or interpretation of any provision contained herein. Whenever the context so requires, the use of the singular shall be deemed to include the plural and vice versa, and each gender reference shall be deemed to include the other and the neuter. This Agreement has been negotiated at arm's length and between persons sophisticated and knowledgeable in the matters dealt with herein. In addition, each party has been represented by experienced and knowledgeable legal counsel. Accordingly, any rule of law (including California Civil Code Section 1654) or legal decision that would require interpretation of any ambiguities in this Agreement against the party that has drafted it is not applicable and is waived. The provisions of this Agreement shall be interpreted in a reasonable manner to effect the purposes of the parties and this Agreement.

11.10 Attorneys' Fees

In the event that either party hereto fails to perform any of its obligations under this Agreement or in the event a dispute arises concerning the meaning or interpretation of any provision of this Agreement, the defaulting party or the non-prevailing party in such dispute, as the case may be, shall pay the prevailing party reasonable attorneys' and experts' fees and costs, and all court costs and other costs of action incurred by the prevailing party in connection with the prosecution or defense of such action and enforcing or establishing its rights hereunder (whether or not such action is prosecuted to a judgment). For purposes of this Agreement, reasonable attorneys' fees of the City's Office of the City Attorney shall be based on the fees regularly charged by private attorneys with the equivalent number of years of experience in the subject matter area of the law for which the City Attorney's services were rendered who practice in the City of San Francisco in law firms with approximately the same number of attorneys as employed by the Office of the City Attorney. The term "attorneys' fees" shall also include, without limitation, all such fees incurred with respect to appeals, mediations, arbitrations, and bankruptcy proceedings, and whether or not any action is brought with respect to the matter for which such fees were incurred. The term "costs" shall mean the costs and expenses of counsel to the parties, which may include printing, duplicating and other expenses, air freight charges, hiring of experts, and fees billed for law clerks, paralegals, and others not admitted to the bar but performing services under the supervision of an attorney.

11.11 Sunshine Ordinance

Seller understands and agrees that under the City's Sunshine Ordinance (San Francisco Administrative Code, Chapter 67) and the State Public Records Law (Gov. Code Section 6250 et seq.), this Agreement and any and all records, information, and materials submitted to the City hereunder public records subject to public disclosure. Seller hereby acknowledges that the City

may disclose any records, information and materials submitted to the City in connection with this Agreement.

11.12 Conflicts of Interest

Through its execution of this Agreement, Seller acknowledges that it is familiar with the provisions of Article III, Chapter 2 of City's Campaign and Governmental Conduct Code, and Section 87100 et seq. and Section 1090 et seq. of the Government Code of the State of California, and certifies that it does not know of any facts which would constitute a violation of said provision, and agrees that if Seller becomes aware of any such fact during the term of this Agreement, Seller shall immediately notify the City.

11.13 Notification of Limitations on Contributions

Through its execution of this Agreement, Seller acknowledges that it is familiar with Section 1.126 of the San Francisco Campaign and Governmental Conduct Code, which prohibits any person who contracts with the City for the selling or leasing of any land or building to or from the City whenever such transaction would require the approval by a City elective officer, the board on which that City elective officer serves, or a board on which an appointee of that individual serves, from making any campaign contribution to (1) the City elective officer, (2) a candidate for the office held by such individual, or (3) a committee controlled by such individual or candidate, at any time from the commencement of negotiations for the contract until the later of either the termination of negotiations for such contract or six months after the date the contract is approved. Seller acknowledges that the foregoing restriction applies only if the contract or a combination or series of contracts approved by the same individual or board in a fiscal year have a total anticipated or actual value of \$50,000 or more. Seller further acknowledges that the prohibition on contributions applies to each Seller; each member of Seller's board of directors, and Seller's chief executive officer, chief financial officer and chief operating officer; any person with an ownership interest of more than twenty percent (20%) in Seller; any subcontractor listed in the contract; and any committee that is sponsored or controlled by Seller. Additionally, Seller acknowledges that Seller must inform each of the persons described in the preceding sentence of the prohibitions contained in Section 1.126. Seller further agrees to provide to City the names of each person, entity or committee described above.

11.14 Non-Liability of City Officials, Employees and Agents

Notwithstanding anything to the contrary in this Agreement, no elective or appointive board, commission, member, officer, employee or agent of City shall be personally liable to Seller, its successors and assigns, in the event of any default or breach by City or for any amount which may become due to Seller, its successors and assigns, or for any obligation of City under this Agreement.

11.15 Counterparts

This Agreement may be executed in two (2) or more counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same instrument.

11.16 Effective Date

As used herein, the term "Effective Date" shall mean the date on which the City's Board of Supervisors and Mayor enact a resolution approving and authorizing this Agreement and the transactions contemplated hereby, following execution of this Agreement by both parties.

11.17 Severability

If any provision of this Agreement or the application thereof to any person, entity or circumstance shall be invalid or unenforceable, the remainder of this Agreement, or the application of such provision to persons, entities or circumstances other than those as to which it is invalid or unenforceable, shall not be affected thereby, and each other provision of this Agreement shall be valid and be enforceable to the fullest extent permitted by law, except to the extent that enforcement of this Agreement without the invalidated provision would be unreasonable or inequitable under all the circumstances or would frustrate a fundamental purpose of this Agreement.

11.18 Cooperative Drafting.

This Agreement has been drafted through a cooperative effort of both parties, and both parties have had an opportunity to have the Agreement reviewed and revised by legal counsel. No party shall be considered the drafter of this Agreement, and no presumption or rule that an ambiguity shall be construed against the party drafting the clause shall apply to the interpretation or enforcement of this Agreement.

NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THIS AGREEMENT, SELLER ACKNOWLEDGES AND AGREES THAT NO OFFICER OR EMPLOYEE OF CITY HAS AUTHORITY TO COMMIT CITY TO THIS AGREEMENT UNLESS AND UNTIL APPROPRIATE LEGISLATION OF CITY'S BOARD OF SUPERVISORS SHALL HAVE BEEN DULY ENACTED APPROVING THIS AGREEMENT AND AUTHORIZING THE TRANSACTIONS CONTEMPLATED HEREBY. THEREFORE, ANY OBLIGATIONS OR LIABILITIES OF CITY HEREUNDER ARE CONTINGENT UPON THE DUE ENACTMENT OF SUCH LEGISLATION, AND THIS AGREEMENT SHALL BE NULL AND VOID IF CITY'S BOARD OF SUPERVISORS AND MAYOR DO NOT APPROVE THIS AGREEMENT, IN THEIR RESPECTIVE SOLE DISCRETION. APPROVAL OF ANY OF THE TRANSACTIONS CONTEMPLATED HEREBY BY ANY DEPARTMENT, COMMISSION OR AGENCY OF CITY SHALL NOT BE DEEMED TO IMPLY THAT SUCH LEGISLATION WILL BE ENACTED NOR WILL ANY SUCH APPROVAL CREATE ANY BINDING OBLIGATIONS ON CITY.

[SIGNATURES ON FOLLOWING PAGES]

The parties have duly executed this Agreement as of the respective dates written below.

SELLER:

NEW ASIA HOUSING, L.P., a California limited partnership

By: New Asia Housing LLC, a California limited liability company,
its general partner

By: Chinatown Community Development Center, a California
nonprofit public benefit corporation, its manager

By: _____
Malcolm Leung
Chief Executive Officer

BUYER:

CITY AND COUNTY OF SAN FRANCISCO, a municipal
corporation

By: _____
Sarah R. Oerth
Director of Property

Date: _____

APPROVED AS TO FORM:

DAVID CHIU, City Attorney

By: _____
Jessica Alfaro-Cassella
Deputy City Attorney

EXHIBIT A

REAL PROPERTY DESCRIPTION

THE FOLLOWING LAND SITUATED IN THE CITY OF SAN FRANCISCO,
COUNTY OF SAN FRANCISCO, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

Beginning at a point on the Northerly line of Pacific Avenue, distant thereon 137 feet and 6 inches Easterly from the Easterly line of Stockton Street; running thence Easterly along said line of Pacific Avenue 20 feet to a point distant thereon 42 feet Westerly from the Westerly line of Pelton Place; thence at a right angle Northerly 97 feet and 6 inches; thence at a right angle Westerly 20 feet; thence at a right angle Southerly 97 feet and 6 inches to the point of beginning.

Being a portion of 50 Vara Block No. 110.

Assessor's Lot: 014; Block: 0161

EXHIBIT B

GRANT DEED

RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:

Director of Property
Real Estate Division
City and County of San Francisco
25 Van Ness Avenue, Suite 400
San Francisco, California 94102

The undersigned hereby declares this instrument to be
exempt from Recording Fees (CA Govt. Code § 27383)
and Documentary Transfer Tax (S.F. Bus. & Tax Reg.
Code § 1105)

(Space above this line reserved for Recorder's use only)

GRANT DEED

(Block/Lot - 0161/014)

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, NEW ASIA HOUSING, L.P., a California limited partnership, hereby grants to the CITY AND COUNTY OF SAN FRANCISCO, a municipal corporation, the real property located in the City and County of San Francisco, State of California, described on Exhibit A attached hereto and made a part hereof (the "Property").

TOGETHER WITH any and all rights, privileges and easements incidental or appurtenant to the Property, including, without limitation, any and all minerals, oil, gas and other hydrocarbon substances on and under the Property, as well as any and all development rights, air rights, water, water rights, riparian rights and water stock relating to the Property, and any and all easements, rights-of-way or other appurtenances used in connection with the beneficial use and enjoyment of the Land and all of Grantor's right, title and interest in and to any and all roads and alleys adjoining or servicing the Property.

[SIGNATURES ON FOLLOWING PAGE]

Executed as of this [_____] day of [_____] , 2026.

NEW ASIA HOUSING, L.P.,
a California limited partnership

By: New Asia Housing LLC, a California limited liability company,
its general partner

By: Chinatown Community Development Center, a California nonprofit public benefit
corporation, its manager

By: _____
Malcolm Yeung
Chief Executive Officer

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
) ss
County of San Francisco)

On _____, before me, _____, a notary public in and for said State, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)

CERTIFICATE OF ACCEPTANCE

This is to certify that the interest in real property conveyed by the foregoing Grant Deed to the City and County of San Francisco, a municipal corporation, is hereby accepted pursuant to Board of Supervisors' Resolution No. 18110 Series of 1939, approved August 7, 1957, and Resolution No. [____], approved [____], and the grantee consents to recordation thereof by its duly authorized officer.

Dated: _____

By: _____

Sarah R. Oerth
Director of Property

EXHIBIT C

**CERTIFICATE OF TRANSFEROR
OTHER THAN AN INDIVIDUAL
(FIRPTA Affidavit)**

Section 1445 of the Internal Revenue Code provides that a transferee of a United States real property interest must withhold tax if the transferor is a foreign person. To inform the CITY AND COUNTY OF SAN FRANCISCO, a municipal corporation, the transferee of certain real property located in the City and County of San Francisco, California, that withholding of tax is not required upon the disposition of such U.S. real property interest by _____

_____, a _____
("Transferor"), the undersigned hereby certifies the following on behalf of Transferor:

1. Transferor is not a foreign corporation, foreign partnership, foreign trust, or foreign estate (as those terms are defined in the Internal Revenue Code and Income Tax Regulations);

2. Transferor's U.S. employer identification number is _____; and

3. Transferor's office address is _____

Transferor understands that this certification may be disclosed to the Internal Revenue Service by the transferee and that any false statement contained herein could be punished by fine, imprisonment, or both.

Under penalty of perjury, I declare that I have examined this certificate and to the best of my knowledge and belief it is true, correct and complete, and I further declare that I have authority to sign this document on behalf of Transferor.

Dated: _____, 2026_.

NEW ASIA HOUSING, L.P.,
a California limited partnership

By: New Asia Housing LLC, a California limited liability company,
its general partner

By: Chinatown Community Development Center, a California nonprofit public benefit
corporation, its manager

By: _____
Malcolm Yeung
Chief Executive Officer

SCHEDULE 1

Environmental Site Assessments

Phase I Environmental Site Assessment dated June 2, 2023

Phase II Environmental Site Assessment dated March 29, 2024

Revised Phase III Clean Up Plan dated April 9, 2025

PHASE I ENVIRONMENTAL SITE ASSESSMENT

772 and 758 Pacific Avenue

San Francisco, California

Prepared for:

Chinatown Community Development Center
1515 Vallejo Street, 4th Floor
San Francisco, California 94109

Prepared by:

Langan Engineering and Environmental Services, Inc.
135 Main Street, Suite 1500
San Francisco, California 94105



Sarah Middleton
Senior Staff Geologist



Peter J. Cusack
Associate Principal/Vice President

Report Date: 2 June 2023
180-Day Viability Date: 28 October 2023
731764202

LANGAN

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731764202.03 Phase I ESA_772 and 758 Pacific Ave_San Francisco

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EXECUTIVE SUMMARY

Langan Engineering and Environmental Services, Inc. (Langan) completed a Phase I Environmental Site Assessment (ESA) of the properties located at 772 and 758 Pacific Avenue in San Francisco, California (the "subject property") under the written authorization of Chinatown Community Development Center ("Client" and the "user"). A Subject Property Location Map is provided in Appendix A (Figure 1).

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA as part of their environmental due diligence related to a potential transaction involving the subject property.

Subject Property Layout

The subject property is approximately 11,450 square feet (0.26 acres) in size and is bound by Pacific Avenue to the south, commercial buildings to the east and west and mixed commercial and residential buildings to the north. The subject property is identified by the City and County of San Francisco Assessor Parcel Numbers (APNs): 0161-014 and 0161-015. The subject property is currently developed with a two-story commercial building (772 Pacific Avenue) and a two-story mixed use commercial building with a residential unit on the second floor (758 Pacific Avenue).

Subject Property Current Use

The subject property is currently developed with a single-story commercial building and a two-story mixed-use building. The two-story commercial building located at 772 Pacific Avenue is occupied by New Asia Supermarket. The lower level of the two-story mixed-use building is occupied by a Chinese restaurant and the upper level is occupied by a residential space.

Subject Property History

The subject property was developed with mixed-use properties by 1887. Various retail and commercial businesses as well as residential units have been occupants of the buildings including a coin operated laundry facility, bathhouse, various lodgings, funeral home, sheet metal contractors, food markets, restaurants, and auto repair shops. The current subject property buildings were constructed in the 1970s. After review of all available data and reports concerning the subject property, Langan does not consider the historical use of the subject property to be a recognized environmental condition (REC) due to the lack of evidence regarding a historical

release. However, a 1953 San Francisco Fire Department permit indicates a 1,000-gallon gasoline underground storage tank (UST) was installed within the sidewalk area at the 772 Pacific Street address in association with the former sheet metal business. There is no documentation available regarding the removal of the UST. Golden Gate Tank Removal, Inc. conducted a “Visual Property Inspection for Underground Fuel Tanks” on 26 September 2016 and provided a one-page document confirming the lack of visual evidence of the UST at the subject property. During site reconnaissance activities, Langan did not identify any visual evidence of a UST. Because there are no records of the UST removal at the subject property, Langan considers the potential presence of the historical gasoline UST and associated unknown subsurface conditions as a REC.

Conclusions

Langan completed a Phase I ESA of the subject property using the scope guidelines and inherent limitations of ASTM E1527-21. Table ES-1 presents the conclusions of the Phase I ESA.

TABLE ES-1
Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
<i>Potential Presence of Historical UST:</i> A 1953 San Francisco Fire Department permit indicates a 1,000-gallon gasoline underground storage tank (UST) was installed within the sidewalk area at the 772 Pacific Street address in association with the former sheet metal business. There is no documentation available regarding the removal of the UST. Golden Gate Tank Removal, Inc. conducted a “Visual Property Inspection for Underground Fuel Tanks” on 26 September 2016 and provided a one-page document confirming the lack of visual evidence of the UST at the subject property. During site reconnaissance activities, Langan did not identify any visual evidence of a UST. Because there are no records of the UST removal at the subject property, Langan considers the potential presence of the historical gasoline UST and associated unknown subsurface conditions as a REC.
<i>Presence of Contaminated Fill Material:</i> Based on the results of Langan’s subsurface investigation at the subject property dated 23 March 2023, concentrations of heavy metals including lead are present in shallow soils exceeding State of California Class I non-Resource Conservation and Recovery Act (RCRA) hazardous waste levels. The presence of metals in soil is likely attributable to historic fill material. The subject property is adjacent to properties included within the expanded San Francisco Public Health Code (SFPHC) Article 22A Maher Ordinance Zone boundary. According to Langan’s 2023 subsurface investigation, the subject property is underlain by up to approximately 13 feet of undocumented fill material. Langan considers the presence of the contaminated fill material to be a REC for the subject property.
<i>Regional Petroleum Hydrocarbon Contamination:</i> Based on the results of Langan’s subsurface investigation at the subject property dated 23 March 2023, concentrations of benzene, chloroform, and naphthalene exceeding Regional Water Quality Control Board (RWQCB) sub slab-soil gas human health risk environmental screening levels (ESLs) for residential and commercial/industrial exposure are present in soil vapor beneath the subject property. According to historical records, gasoline service stations and automotive repair shops with USTs have been in the vicinity of the subject property since the 1920s. Based on the location of the subject property relative to multiple closed leaking underground storage

ASTM E1527-21 Scope Items
tank (LUST) cases and EDR HIST AUTO facilities, Langan concludes the petroleum hydrocarbon contamination below the subject property is a result of an off-subject property release or releases. The presence of petroleum hydrocarbon contamination below the subject property, emanating from an off-subject property source or sources, is evidence of a release affecting the environmental integrity of the subject property and therefore constitutes a REC.
<i>Regional Chlorinated Solvents Contamination:</i> Based on the results of Langan's subsurface investigation dated 23 March 2023, concentrations of tetrachloroethene (PCE) exceeding RWQCB residential ESLs are present in soil vapor below the subject property. According to the EDR database report, there are approximately 23 properties listed on the EDR HIST CLEANER database located upgradient and within ¼-mile of the subject property with operations beginning as early as the 1930s. It is possible for dry cleaners to have discharged hazardous substances to the subsurface environment during this time. Langan considers the known soil vapor contamination and potential for associated vapor intrusion in subject property buildings to be a REC for the subject property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs.
De Minimis Conditions
Langan did not identify de minimis conditions.
Significant Data Gaps
Langan did not identify significant data gaps.

1.0 INTRODUCTION

Langan Engineering and Environmental Services, Inc. (Langan) completed a Phase I Environmental Site Assessment (ESA) of the properties located at 772 and 758 Pacific Avenue in San Francisco, California, (the "subject property") under the written authorization of Chinatown Community Development Center ("Client" and the "user"). A Subject Property Location Map is provided in Appendix A (Figure 1).

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (U.S. EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA as part of their environmental due diligence associated with a potential transaction involving the subject property.

1.1 Purpose

The purpose of this Phase I ESA is to identify recognized environmental conditions (REC) associated with the subject property. This purpose also includes identifying controlled recognized environmental conditions (CREC), historical recognized environmental conditions (HREC), de minimis conditions, and significant data gaps. The definitions of REC, CREC, HREC, de minimis condition and other select ASTM terms used in this report are in Section 8.

1.2 Scope of Services

Langan's scope of services consisted of the completion of a Phase I ESA following the guidelines of ASTM E1527-21. Langan's scope of services as it pertains to the elements of a Phase I ESA as specified in ASTM E1527-21 is described below.

1.2.1 Records Review and Local Government Interviews

Langan contracted a third-party provider to search environmental regulatory databases and provide historical records. The database search included select federal, state, local and tribal standard source environmental databases within the approximate search radii specified by ASTM E1527-21.

Langan submitted Freedom of Information Act (FOIA) requests to supplement environmental database listing information. The FOIA requests were submitted to the City of San Francisco, San Francisco Department of Public Health (SFDPH), and the San Francisco Fire Department (SFFD). Online EnviroStor and GeoTracker databases, operated by the California Department of Toxic Substances Control (DTSC) and the State of California Water Resources Control Board (RWQCB), respectively, were searched as well as United States Geological Survey (USGS) mapping and US EPA databases. Agency FOIA-requested information, where received, is discussed in relevant sections of this report, and referenced in Section 7.

1.2.2 Site Reconnaissance and Owner/Operator/Occupant Interviews

Langan completed the site reconnaissance on 25 May 2023. Facility managers of New Asia supermarket and Yummy Yummy restaurant, collectively the "key site managers," accompanied Daniel Parsons of Langan during the site reconnaissance. The site reconnaissance focused on the spatial extent of the subject property and associated structures and progressed to the adjoining and surrounding properties. The adjoining properties were observed from the subject property or from public rights-of-way. The weather at the time of the site reconnaissance was

approximately 60°F and cloudy. Limiting conditions encountered during the site reconnaissance, if any, are discussed in Section 8.3.

Langan interviewed Ms. Bo Han of Chinatown Community Development Center by Phone on 22 May 2023.

1.2.3 Evaluation, Report and Parts Used in Concert

Langan evaluated the pieces of information obtained from the records reviews, site reconnaissance and interviews described above, and from the user as described in Section 1.3 in concert with each other. Langan's findings, opinions, and conclusions are discussed throughout this report. Significant assumptions, or deletions, deviations or exceptions to ASTM E1527-21 are noted in Section 5.0 and Section 8.3, respectively.

1.2.4 Non-ASTM Scope Services

The scope of services for the Phase I ESA did not include non-scope ASTM considerations, including PFAS/PFOS, radon, asbestos containing materials (ACM), lead based paint (LBP), lead in drinking water, PCB-containing material, wetlands, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, mold, indoor air quality, and biological agents.

1.3 User Responsibilities

Langan requested that the user provide the results of tasks the user is responsible for completing in order to satisfy the requirements of AAI. The tasks include: searching for known environmental liens and activity and use limitations (AULs) filed or recorded against the subject property, and provision of information related to specialized knowledge or experience of the user or the degree of obviousness relative to conditions indicative of releases or threatened releases; actual knowledge of the user regarding environmental liens or AULs related to the subject property; specialized knowledge or experience of the user; reasons for significantly lower purchase prices, and commonly known or reasonably ascertainable information within the local community about the subject property. Langan also requested that the user state the reason the Phase I ESA was requested. A summary of the user's responses is provided in Appendix B and relevant information provided by the user is discussed in applicable sections of this report.

Unless specifically included in the scope of services, Langan did not complete a title search or a search for environmental liens or AULs, as that is the responsibility of the user. If the user requested that Langan complete such searches on the user's behalf, the information was

supplied to Langan by a vendor, and to the vendor by government sources; therefore, neither Langan nor the vendor can verify the completeness or accuracy of the title search, or AUL searches.

2.0 SUBJECT PROPERTY DESCRIPTION AND CURRENT USE

2.1 Location, Legal Description, and Ownership

The subject property is approximately 11,450 square feet (0.26 acres) in size and is bound by Pacific Avenue to the south, commercial buildings to the east and west and mixed commercial and residential buildings to the north. The subject property is identified by the City and County of San Francisco Assessor Parcel Numbers (APNs): 0161-014 and 0161-015. The subject property is currently developed with a two-story commercial building (772 Pacific Avenue) and a two-story mixed use commercial building with a residential unit on the second floor (758 Pacific Avenue). The subject property is zoned as CRNC – Residential/Neighborhood Commercial. The 772 Pacific Avenue property is owned by The City and County of San Francisco, a Municipal Corporation and the 758 Pacific Avenue property is owned by Arey K. Mew, Trustee under the Arey K. Mew 1990 Revocable Trust dated April 30, 1990. A legal description of the subject property is presented in Appendix B.

2.2 Physical Setting

The physical setting that includes the geologic, hydrogeologic, hydrologic, and topographic characteristics of the subject property and surrounding area are discussed below.

2.2.1 Topography

The 2018 United States Geological Survey (USGS) 7.5-minute quadrangle topographic map for Northern San Francisco depicts the subject property at an elevation of approximately 85.37 feet above mean sea level (msl). The regional topography slopes toward the northeast and the San Francisco Bay.

2.2.2 Geology

The subject property is located within the Pacific Border physiographic province. According to the U.S. Department of Agriculture's (USDA) Natural Cooperative Soil Survey (NCSS), soils at the subject property are comprised primarily of clayey soils with very slow infiltration rates. Based on the subsurface investigation conducted at the subject property by Langan in December 2022, the subject property is generally underlain by up to approximately 13 feet of undocumented fill

material consisting of very soft to stiff clay with interbedded medium dense sand. The fill material is underlain by dense to very dense sand which was encountered between depths of five and the maximum explored depth of 13 feet bgs.

2.2.3 Hydrogeology

Surface water bodies are not present within the boundary of the subject property. The nearest surface water body is the San Francisco Bay, which is located approximately 0.6 miles northeast of the subject property. Groundwater was not encountered during the subsurface investigation conducted by Langan in December 2022. However, based on previous investigations conducted by others in the surrounding area, depth to groundwater is anticipated to range from approximately 10 to 18 feet bgs. Groundwater flow can be influenced by several factors such as surface water bodies, wetlands, hydrogeologic and anthropogenic variables. However, based on previous groundwater monitoring performed by others in the surrounding area, groundwater is expected to generally flow to the northeast.

A review of the Geospatial section of the EDR Regulatory Database Report (Appendix C), the State Water Resource Control Board's (SWRCB) Groundwater Ambient Monitoring and Assessment Program (GAMA) database did not identify any groundwater monitoring wells present within the subject property boundary. Additionally, the SWRCB GAMA database identified multiple wells within a ¼ mile radius of the subject property. These monitoring wells appear to be associated with various closed LUST cases in the area and have been decommissioned. During the site reconnaissance, Langan did not observe any groundwater monitoring wells at the subject property.

2.3 Subject Property Description

The subject property is currently developed with a two-story commercial building (772 Pacific Avenue) and a two-story mixed-use building with residential units on the second floor (758 Pacific Avenue). The two-story commercial building (772 Pacific Avenue) is occupied by New Asia Supermarket with the upper level being used for office space and storage associated with the Supermarket. The lower level of the two-story commercial building (758 Pacific Avenue) is occupied by a Chinese restaurant and the upper level is occupied by a residential space. The subject property can be accessed from Pacific Street.

A Subject Property Layout Map is provided in Figure 2 of Appendix A. Photographs of the subject property and a checklist documenting Langan's observations relative to the features, activities, uses, and conditions outlined in Section 9.4 of ASTM E1527-21 are in Appendix D.

2.4 Current Subject Property Use

The subject property is developed with two commercial buildings. The following table summarizes the current uses of the parcels within the subject property boundary.

TABLE 2-1
Parcel Information

Subject Property Address	APN	Parcel Use
772 Pacific Avenue	0161/015	New Asian Supermarket
758 Pacific Avenue	0161/014	First floor: Yummy Yummy Chinese Restaurant Second Floor: Private Residence

The following table summarizes subject property utility providers.

TABLE 2-2
Utility Providers

Utility	Providers
Electricity (used for cooling)	Pacific Gas & Electric (PG&E)
Natural gas (used for heating)	PG&E
Water	San Francisco Public Utilities Commission (SFPUC)
Sewer	SFPUC

2.5 Hazardous Substances and Petroleum Products

Langan did not observe hazardous substances and/or petroleum products in connection with identified uses at the subject property. Langan did not observe evidence of leaks, spills, pools of liquid or releases such as staining, or sheens. Additionally, key site managers were unaware of historical uses or releases of hazardous substances or petroleum products at the subject property, other than as described below.

2.5.1 Underground Storage Tanks (USTs)

Langan did not observe any USTs at the subject property during the site reconnaissance.

2.5.2 Aboveground Storage Tanks (ASTs)

Langan did not observe any ASTs at the subject property during the site reconnaissance.

2.5.3 Drums, Totes, and Intermediate Bulk Containers

Langan did not observe any drums, totes, and intermediate bulk containers at the subject property during the site reconnaissance.

2.5.4 Other Chemical Storage, Containers, or Equipment

Langan observed shelves and storage cabinets containing retail-size containers of janitorial products in the storage areas of the buildings.

2.6 Air Emissions

Air emission sources at the subject property include HVAC equipment. Langan did not identify obvious impacts, such as visible emissions or odors, from air emission sources at the subject property. Langan does not consider the air emissions an environmental concern for the subject property.

2.7 Waste Management

2.7.1 Hazardous Waste

Langan did not observe any hazardous waste containers at the subject property.

2.7.2 Non-Hazardous Waste

Langan did not observe any non-hazardous waste containers at the subject property.

2.7.3 Fill Areas or Solid Waste

Langan did not observe areas that were apparently filled or graded by non-natural causes (or filled with material of unknown origin) that suggest the presence of garbage, construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting solid waste disposal.

2.8 Wastewater

Langan did not observe wastewater discharges at the subject property during the reconnaissance. Langan observed floor drains in both commercial properties within kitchen areas and bathrooms.

2.9 Storm Water

Storm water at the subject property sheet flows to the adjoining roadways into the municipal storm sewer system. Langan did not observe obvious evidence of impacts to storm water pathways such as sheens, residue, or stressed vegetation at the subject property.

3.0 SUBJECT PROPERTY HISTORY AND RECORDS REVIEW

3.1 Historical Summary

Langan compiled the following summary of the subject property history based on a review of readily available and reasonably ascertainable sources and interviews. Historical resources are provided in Appendix F.

TABLE 3-1
Subject Property History

Time Period	Historical Discussion
1880 – 1930s	The subject property appears to be developed with multiple commercial buildings in the 1887 and 1889 Sanborn Maps, including a laundry facility, bathhouse, lodgings, a drying platform, and a funeral home. By 1913, the subject property appears to be vacant.
1940 – 1970s	By 1948 through 1950, the 772 Pacific Avenue (historically 770 Pacific Avenue) property and is labeled as a garage. According to city directories, the subject property was occupied by the New Pacific Garage from 1935 to approximately 1953. The 758 Pacific Avenue property appears to be occupied by a funeral home. According to city directories, the Quong Fook Sang funeral home occupied the property from approximately 1930 through at least 1966. By 1974, the current 772 Pacific Avenue property building has been constructed and is identified as a carpentry and tin shop. According to Sanborn Maps and city directories, the property was occupied by Yick Frank & Co. General Contractors from 1953 through at least 1966 and operated as a sheet metal business. The 758 Pacific Avenue property remains the same.
1980s – Present	By the 1986 through 1990 Sanborn Maps, the 772 Pacific Avenue building is labeled as a commercial building and the 758 Pacific Avenue building remains labeled as a funeral home. According to city directories, the 772 Pacific Avenue building was occupied by the New Asia Marketplace by 1977. By 1999, the 758 Pacific Avenue building is labeled as a commercial building and is occupied by a restaurant. The current Chinese restaurant has occupied the property since at least 2014. The subject property appears unchanged through present day.

Environmental concerns related to historical operations are discussed further below.

3.2 Regulatory Database Review

The subject property is identified on multiple databases searched by EDR and are discussed in detail below. The environmental database report is attached as Appendix C.

Subject Property –770 Pacific Avenue

The historical address associated with the subject property (770 Pacific Avenue) is listed on the EDR HIST AUTO database. According to city directories, the subject property was occupied by the New Pacific Garage from 1935 to approximately 1953. A permit issued by the SFFD in 1953 indicates a 1,000-gallon gasoline UST was installed in the Pacific Avenue sidewalk adjacent to the subject property (included in Appendix E). There is no documentation available regarding the removal of the UST. During site reconnaissance activities, Langan did not identify any visual evidence of a UST. Because there are no records of the UST removal at the subject property, Langan considers the potential presence of the UST and associated unknown subsurface conditions as a REC (See Langan REC 1).

3.3 Prior Environmental Report Review

Langan was provided with prior environmental reports related to the subject property. The reports are referenced in Section 7 and summarized below. The reports are included in Appendix E.

EBI Consulting – Phase I ESA – November 2016

EBI Consulting (EBI) conducted a Phase I ESA at the subject property address 772 Pacific Avenue in 2016. The SFFD sent EBI documentation, dated 7 July 1953, regarding the presence of a 1,000-gallon gasoline UST located in the Pacific Avenue sidewalk adjacent to the subject property (included in Appendix E). No further documentation was identified regarding any inspections or the removal of this UST. Golden Gate Tank Removal, Inc. conducted a “Visual Property Inspection for Underground Fuel Tanks” on 26 September 2016 and provided EBI with a one-page document confirming the lack of visual evidence of the UST at the subject property (included in Appendix E). Based on this information, EBI identified the following recognized environmental conditions (RECs) for the subject property:

- SFFD permit indicates a 1,000-gallon gasoline UST was installed at the subject property in 1953 associated with the sheet metal business that previously occupied the property. There is no documentation available regarding the removal of the UST. During site reconnaissance activities, EBI did not identify any visual evidence of a UST. Because there are no records of the UST removal at the subject property, EBI considered the potential presence of the UST and associated unknown subsurface conditions as a REC (See Langan REC 1).

EBI recommended conducting a geophysical survey at the subject property to determine whether the UST remains on the southern portion of the subject property. Additionally, EBI recommended a subsurface investigation be conducted to characterize conditions at the subject property.

Langan Engineering and Environmental Services, Inc. – Phase II ESA & SMP – March 2023

Langan performed a Phase II ESA and Site Mitigation Plan (SMP) based on the analytical results for the subject property. On 13 December 2022, six shallow soil borings (LB-2 through LB-7) were advanced for the collection of soil samples. Sample locations are presented in Appendix A, Figure 4. Soil samples were collected from the six soil borings at depths of approximately 1.5, 3.0, and 5.0 feet bgs. The soil samples were submitted for analysis of some or all of the following:

- Total Petroleum Hydrocarbons (TPH) gas(g), TPH diesel(d), and TPH motor oil(mo) by Environmental Protection Agency (EPA) Method 8015M;
- Volatile organic compounds (VOCs) by EPA Method 8260;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270;
- Organochlorine pesticides (OCPs) by EPA Method 8081;
- Polychlorinated biphenyls (PCBs) by EPA Method 8082;
- California Assessment Manual (CAM) 17 metals by EPA Method 6010/7000;
- Cyanide by EPA Method 4500;
- Acid Soluble Sulfides by EPA Method 4500;
- pH by EPA Method 9045C; and,
- Asbestos by California Air Resource Board (CARB) 435.

Four sub-slab soil vapor pins (LV-3-SV, LV-4-SV, LV-5-SV, and LV-7-SV) were installed near select soil boring locations following soil sampling, backfill, and grouting. The temporary soil vapor pins were installed in the slab and sampled on 13 and 14 December 2022 for analysis of VOCs via USEPA Method TO-15 SIM, helium, oxygen, methane, and carbon dioxide by ASTM D-1946.

Soil analytical data was compared to RWQCB Direct Exposure Human Health Risk Levels for Residential and Commercial/Industrial Shallow Soil Exposure¹. None of the samples contained concentrations of TPHg, TPHd, TPHmo, VOCs, SVOCs, OCPs or PCBs exceeding the residential or commercial/industrial ESLs. Cyanides, acid soluble sulfides, and asbestos were not detected exceeding the laboratory reporting limits in the samples analyzed.

Total lead was detected above laboratory reporting limits in all 16 of the samples analyzed, at concentrations ranging between 2.45 mg/kg and 846 mg/kg. Four of the samples had detected concentrations of total lead above 50 mg/kg (10 times the STLC) and were subsequently analyzed for STLC lead to determine soluble lead levels. STLC lead was detected above the laboratory reporting limit in each of the four samples analyzed at concentrations ranging from 0.987 milligram per liter (mg/L) to 72.7 mg/L. STLC lead was detected at a concentration exceeding the STLC State of California hazardous waste criteria of 5 mg/L in two of the four samples analyzed. Three samples were analyzed for TCLP lead to determine soluble lead levels. TCLP lead was detected above the laboratory reporting limit in one of the three samples analyzed at a concentration of 0.873 mg/L, which does not exceed the Federal hazardous waste criteria of 5 mg/L. Four soil samples exceeded the residential ESL for lead of 82 mg/kg.

Total chromium was detected above the laboratory reporting limit in each of the 16 samples analyzed at concentrations ranging from 44.3 mg/kg to 103 mg/kg. None of the total chromium concentrations detected exceed the TTLC State of California hazardous waste criteria of 2,500 mg/kg. Total chromium in 14 soil samples were subsequently analyzed for STLC chromium to determine soluble chromium levels. STLC chromium was detected above the laboratory reporting limit in eight of the 16 samples analyzed at concentrations ranging from 0.234 mg/L to 1.71 mg/L, none of which exceeded the STLC State of California hazardous waste criterion of 5 mg/L.

Total mercury was detected above the laboratory reporting limit in six of the 16 samples analyzed at concentrations ranging from 0.14 mg/kg to 13 mg/kg. Total mercury in three sample (LB-2-1.5, LB-2-3.0, and LB-5-1.5) was detected at concentrations above 2.0 mg/kg (10 times the STLC) and was subsequently analyzed for STLC mercury to determine soluble mercury levels.

¹ RWQCB ESLs: Direct Exposure Human Health Risk Levels (Table S-1). Residential and Commercial/Industrial: Shallow Soil Exposure. 2019 Final Rev. 2

STLC mercury was not detected above the laboratory reporting limits in any of the samples analyzed.

The remaining metal concentrations were below ESLs or within normal background ranges found in the San Francisco Bay Area².

Soil vapor analytical data was compared to Sub Slab-Soil Gas Human Health Risk Screening Levels for Residential and Commercial/Industrial Exposure³. Soil vapor analytical results exceeding ESLs are summarized below:

- Benzene was detected in three of the four samples analyzed above the residential ESL (3.2 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) at concentrations ranging from 3.2 $\mu\text{g}/\text{m}^3$ (LB-3-SV) and 4.5 $\mu\text{g}/\text{m}^3$ (LB-7-SV).
- Chloroform was detected in two of the four samples analyzed above the residential ESL (4.1 $\mu\text{g}/\text{m}^3$) at concentrations of 13 $\mu\text{g}/\text{m}^3$ (LB-5-SV) and 24 $\mu\text{g}/\text{m}^3$ (LB-4-SV).
- Naphthalene was detected above the residential (2.8 $\mu\text{g}/\text{m}^3$) and commercial/industrial ESL (12 $\mu\text{g}/\text{m}^3$) at a concentration of 39 $\mu\text{g}/\text{m}^3$ in one sample (LB-7-SV).
- Tetrachloroethene (PCE) was detected above the residential ESL (15 $\mu\text{g}/\text{m}^3$) at a concentration of 27 $\mu\text{g}/\text{m}^3$ in one sample (LB-4-SV).

The remaining VOCs in soil vapor were below their respective ESL.

The results of Langan's subsurface investigation indicate that the subject property is underlain by one to three feet of fill material in some locations with elevated concentrations of heavy metals. Based on the analytical results, two soil samples (LB-5-1.5 and LB-7-1.5) exceed the State of California hazardous waste criteria and if disturbed will require disposal as State of California Class I non-RCRA hazardous waste. The areas containing material exceeding State of California Class I non-RCRA hazardous criteria are presented in Appendix A, Figure 4. Because hazardous concentrations of heavy metals within the fill material exists beneath the subject property, Langan prepared an SMP providing recommended measures to mitigate the long-term environmental or health and safety (H&S) risks caused by the presence of heavy metals in the

² Environmental Resources Management. Feasibility Study, Hookston Station, Pleasant Hill, California. Appendix A, Table A-1, "Comparison of Background Concentrations of Metals in Bay Area Soils," July 2006.

³ RWQCB ESLs: Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1). Residential and Commercial/Industrial. 2019 Final Rev. 2

soil. Langan considers the presence of fill material exceeding State of California Class I non-RCRA hazardous criteria to be a REC for the subject property (See Langan REC 2).

As a result of the concentrations of benzene, chloroform, and naphthalene as well as PCE exceeding the RWQCB ESL in soil vapor, Langan recommended the installation of a vapor intrusion mitigation system (VIMS) be included in future building design as a conservative vapor mitigation measure. Langan considers the presence of PCE exceeding RWQCB ESLs in soil vapor to be a REC for the subject property (See Langan RECs 3 and 4).

4.0 ADJOINING PROPERTIES AND SURROUNDING AREA

4.1 Current Use of Adjoining Properties and Surrounding Area

The use of adjoining and surrounding properties is summarized as follows:

TABLE 4-1
Current Use of Adjoining Properties and Surrounding Area

Direction	Adjoining Properties	Surrounding Area
North	Asian grocery store (Chung Chou City Inc.) and residential building	Stark Street followed by residential and commercial properties
East	Seabird Preschool and an antique retail store/pharmacy (Kam Kuen Wong, BS)	Commercial properties including a salon, medical services office, and public parking
South	Pacific Avenue followed by Ping Yuen Residential Housing	Commercial properties
West	Gum Sing Market	Wah Hing Market followed by Stockton Street

Langan did not observe obvious conditions likely to represent environmental concerns for the subject property from current uses of adjoining or surrounding properties.

4.2 Adjoining Properties and Surrounding Area History

Langan compiled the following summaries of the adjoining properties and surrounding area history based on a review of historical resources and interviews. Historical resources are provided in Appendix F.

TABLE 4-2
Historical Use of Adjoining Properties

Direction	Adjoining Properties
North	The northern adjoining property appears to be developed with multiple commercial properties in the 1887 through 1899 Sanborn Maps. By 1913, most of the property appears to be vacant with what appears to be a small carpentry shop located in the eastern corner. In the 1948 Sanborn Map, the property appears to be developed with a vacant dwelling and a furniture shop. A warehouse is present in place of the vacant dwelling by 1950. By 1974, the furniture shop remains, and the warehouse has been replaced with an apartment building. According to aerial photographs, the property appears to remain unchanged through present day. Langan does not consider the historical use of the northern adjoining property an environmental concern for the subject property.
East	The eastern adjoining property is depicted as a storefront from 1887 through 1950. In the 1974 Sanborn Map, the property appears to be labeled as a clothes manufacturer. The property appears generally unchanged through present day with various commercial businesses having occupied the building from 1974 through 2020 including a pet shop, a cocktail lounge, and a general store. According to city directories, this property was occupied by the Hogan & Vest Real Estate Company from at least 2014 through 2019. Database listings associated with the eastern adjoining property are discussed in Section 4.3.
South	The southern adjoining property appears to be developed with a Chinese wood yard in the 1887 through 1899 Sanborn Maps. By 1913, most of the southern adjoining property appears to be vacant with a small commercial building on the western portion labeled Chinese laundry. According to city directories and Sanborn Maps, a laundry facility operated at the former 767 Pacific Avenue property as early as 1913 through approximately 1940. By the 1948, the property appears to be developed with two auto garages. Senator's Garage is located on the eastern portion and a separate garage appears on the western portion of the southern adjoining property. According to city directories, the Senator's Garage operated at the former 725 and 755 Pacific Avenue properties (currently 711 through 799 Pacific Avenue) as early as the 1920s through 1948. Additionally, the Barsotti Aladino garage operated at the former 765 Pacific Avenue property as early as the 1930s through 1948. By 1950 the property is vacant in preparation for the development of the Ping Yuen housing complex. According to city directories, this property has been occupied by the Ping Yuen public housing complex since at least 1962. The property appears unchanged through present day. Database listings associated with the southern adjoining property are discussed in Section 4.3.
West	The western adjoining property appears to be developed with approximately seven commercial stores in the 1887 through 1913 Sanborn Maps. By the 1948 Sanborn Map, three of the stores are labeled as furniture stores. According to city directories, a clothes cleaning facility operated at the 1204 and 1216 Stockton Street properties in the 1930s. The properties appear generally unchanged through present day. Currently, the properties are occupied by Chinese markets. Database listings associated with the western adjoining properties are discussed in Section 4.3.

The surrounding area shows mixed residential and commercial development on aerial photographs in the early 1900s. Surrounding roadways were apparent as early as 1887. The surrounding area appears in similar configuration from the late 1950s to present.

Langan does not consider the historical uses of the surrounding area properties an environmental concern for the subject property.

4.3 Regulatory Database Review

Langan reviewed the environmental database report to evaluate if adjoining or surrounding area properties identified in the database report are suspected to represent an environmental concern for the subject property (see Section 8.2). Langan did not consider review of regulatory agency files for the adjoining or surrounding properties necessary to evaluate potential RECs for the subject property unless discussed in Section 4.3.1 or 4.3.2 below.

4.3.1 Adjoining Properties

Database listings for adjoining properties are summarized as follows.

Former Hogan & Vest – 750 Pacific Avenue (eastern adjoining, inferred cross-gradient)

The 750 Pacific Avenue property, located approximately 24 feet to the east-northeast of the subject property, was identified on the RCRA NonGen/NLR database. According to city directories, this property was occupied by the Hogan & Vest Real Estate Company from at least 2014 through 2019. The database listing indicates that this property was verified as a non-generator of hazardous waste in 2019. No violations indicative of a release has been recorded for this parcel and therefore this property is not considered a REC.

Ping Yuen Center – 711 through 799 Pacific Avenue (southern adjoining, inferred up-gradient)

The 711 through 799 Pacific Avenue property, located approximately 90 feet to the south-southeast of the subject property, was identified on the RCRA-LQG, FINDS, and ECHO databases. According to city directories, this property has been occupied by the Ping Yuen public housing complex since at least 1962. The database listing indicates that lead and cadmium impacted hazardous waste was removed from the property in 2016 during building improvement activities. No violations indicative of a release has been recorded for this parcel and therefore this property is not considered a REC.

Chinatown Community Development Center – 795 Pacific Avenue (southern adjoining, inferred up-gradient)

The 795 Pacific Avenue property, located approximately 76 feet to the south-southwest of the subject property, was identified on the CERS and CUPA Listings databases. The database review indicated a history of violations at the property, which were documented by SFDPH inspectors. In 2022, SFDPH inspectors observed the following violations: failure to complete and submit hazardous material inventory information, failure to provide initial and annual training to all employees, and failure to report program data electronically. No violations indicative of a release has been recorded for this parcel and therefore this property is not considered a REC.

Former Senator S Garage – 725 & 755 Pacific Avenue (southern adjoining, inferred up-gradient)

The 725 and 755 Pacific Avenue properties, located approximately 73 feet to the south of the subject property, was identified on the EDR Hist Auto database. According to city directories, the Senator S Garage operated at the former 725 and 755 Pacific Avenue properties (currently 711 through 799 Pacific Avenue) as early as the 1920s through 1948. No violations indicative of a release has been recorded for this parcel; however, it is possible that the historical use of this property as an auto repair shop has contributed to the regional petroleum hydrocarbon contamination (See Langan REC 3).

Former Sang Chong – 767 Pacific Avenue (southern adjoining, inferred up-gradient)

The 767 Pacific Avenue property, located approximately 73 feet to the south of the subject property, was identified on the EDR Hist Cleaner database. According to city directories and Sanborn Maps, a laundry facility operated at the former 767 Pacific Avenue property as early as 1913 through approximately 1940. No violations indicative of a release has been recorded for this parcel; however, it is possible that the historical use of this property as a dry-cleaning facility has contributed to the regional chlorinated solvent contamination (See Langan REC 4).

Former Barsotti Aladino – 765 Pacific Avenue (southern adjoining, inferred up-gradient)

The 725 and 755 Pacific Avenue properties, located approximately 73 feet to the south of the subject property, was identified on the EDR Hist Auto database. According to city directories, the Barsotti Aladino garage operated at the former 765 Pacific Avenue property as early as the 1930s through 1948. No violations indicative of a release has been recorded for this parcel; however, it is possible that the historical use of this property as an auto repair shop has contributed to the regional petroleum hydrocarbon contamination (See Langan REC 3).

Former Ohio Renovatory – 1204 Stockton Street (western adjoining, inferred cross-gradient)

The 1204 Stockton Street property, located approximately 46 feet to the west of the subject property, was identified on the EDR Hist Cleaner database. According to city directories, a clothes cleaning facility operated at the property in the 1930s. No violations indicative of a release has been recorded for this parcel; however, it is possible that the historical use of this property as a dry-cleaning facility has contributed to the regional chlorinated solvent contamination (See Langan REC 4).

Former Diamond Cleaners – 1216 Stockton Street (western adjoining, inferred cross-gradient)

The 1216 Stockton Street property, located approximately 31 feet to the west of the subject property, was identified on the EDR Hist Cleaner database. According to city directories, a clothes cleaning facility operated at the property in the 1930s. No violations indicative of a release has been recorded for this parcel; however, it is possible that the historical use of this property as a dry-cleaning facility has contributed to the regional chlorinated solvent contamination (See Langan REC 4).

4.3.2 Surrounding Area

Langan evaluated each of the database listings for surrounding area properties (see Section 8.2). Those warranting further discussion in the context of potential to represent an environmental concern for the subject property are discussed below.

Former Shell Garage – 1636 Powell Street (approximately 0.23 miles northwest, inferred down-gradient)

The 1636 Powell Street property, located approximately 1,220 feet to the north-northwest and down-gradient of the subject property, was identified on the LUST, CORTESE, CERS, UST, and HIST CORTESE databases. According to the database listings and open GeoTracker case file, two gasoline USTs were removed from the property in 1995. Confirmation soil samples indicated that a leak had occurred, and a LUST case was opened with the RWQCB. Various subsurface investigations and remedial actions have occurred at the site since 1999 including excavation of contaminated soils, installation of groundwater monitoring wells, groundwater extraction, slow-release oxygen injections, and installation of soil vapor probes. Chemicals of concern (COCs) for this property include TPHg, benzene, and PCE in groundwater and soil vapor. The source of the PCE contamination was determined to be from the adjacent property (1656 Powell Street, discussed below). Environmental investigations and remediation are still ongoing for this property. Due to the unknown extent of the petroleum hydrocarbon plume, it is

possible that the historical use of this property as a gas station has contributed to the regional petroleum hydrocarbon contamination (See Langan REC 3).

Hanford Freund & Co. – 1656 Powell Street (approximately 0.23 miles northwest, inferred down-gradient)

The 1656 Powell Street property, located approximately 1,244 feet to the northwest and down-gradient of the subject property, was identified on the CPS-SLIC, HAZNET, HWTS, and UST databases. According to the database listings and open GeoTracker case file, during petroleum-related investigations for the 1636 Powell Street property (discussed above), chlorinated hydrocarbon impacts were encountered beneath the location of the former dry-cleaning business that was historically located at this property from 1940 through 1982 by various businesses. Investigations are currently being conducted to delineate the groundwater and soil vapor plumes and determine additional remedial actions. Due to the unknown extent of the chlorinated solvent plume, it is possible that the historical use of this property as a dry-cleaning facility has contributed to the regional chlorinated solvent contamination (See Langan REC 4).

Based on information in the environmental database report, Langan did not consider submitting FOIA requests to supplement the database listings for adjoining or surrounding area properties necessary, except as discussed above.

5.0 CONCLUSIONS, FINDINGS, AND OPINIONS

Langan completed a Phase I ESA consistent with the scope and limitations of ASTM E1527-21 for the subject property at 772 and 758 Pacific Avenue in San Francisco, California. Exceptions to, or deletions from, ASTM E1527-21 are described in Section 8 of this report. This assessment has revealed the RECs, CRECs, HRECs, de minimis conditions, significant data gaps, and BERs presented in Table 5-1.

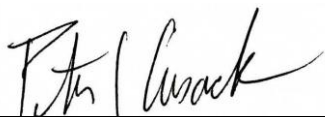
TABLE 5-1
Conclusions, Findings, and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
<i>Potential Presence of Historical UST:</i> A 1953 San Francisco Fire Department permit indicates a 1,000-gallon gasoline underground storage tank (UST) was installed within the sidewalk area at the 772 Pacific Street address in association with the former sheet metal business. There is no documentation available regarding the removal of the UST. Golden Gate Tank Removal, Inc. conducted a “Visual Property Inspection for Underground Fuel Tanks” on 26 September 2016 and provided a one-page document confirming the lack of visual evidence of the UST at the subject property. During site reconnaissance activities, Langan did not identify any visual evidence of a UST. Because there are no records of the UST removal at the subject property, Langan considers the potential presence of the historical gasoline UST and associated unknown subsurface conditions as a REC.
<i>Presence of Contaminated Fill Material:</i> Based on the results of Langan’s subsurface investigation at the subject property dated 23 March 2023, concentrations of heavy metals including lead are present in shallow soils exceeding State of California Class I non-Resource Conservation and Recovery Act (RCRA) hazardous waste levels. The presence of metals in soil is likely attributable to historic fill material. The subject property is adjacent to properties included within the expanded San Francisco Public Health Code (SFPHC) Article 22A Maher Ordinance Zone boundary. According to Langan’s 2023 subsurface investigation, the subject property is underlain by up to approximately 13 feet of undocumented fill material. Langan considers the presence of the contaminated fill material to be a REC for the subject property.
<i>Regional Petroleum Hydrocarbon Contamination:</i> Based on the results of Langan’s subsurface investigation at the subject property dated 23 March 2023, concentrations of benzene, chloroform, and naphthalene exceeding Regional Water Quality Control Board (RWQCB) sub slab-soil gas human health risk environmental screening levels (ESLs) for residential and commercial/industrial exposure are present in soil vapor beneath the subject property. According to historical records, gasoline service stations and automotive repair shops with USTs have been in the vicinity of the subject property since the 1920s. Based on the location of the subject property relative to multiple closed leaking underground storage tank (LUST) cases and EDR HIST AUTO facilities, Langan concludes the petroleum hydrocarbon contamination below the subject property is a result of an off-subject property release or releases. The presence of petroleum hydrocarbon contamination below the subject property, emanating from an off-subject property source or sources, is evidence of a release affecting the environmental integrity of the subject property and therefore constitutes a REC.
<i>Regional Chlorinated Solvents Contamination:</i> Based on the results of Langan’s subsurface investigation dated 23 March 2023, concentrations of tetrachloroethene (PCE) exceeding RWQCB residential ESLs are present in soil vapor below the subject property. According to the EDR database report, there are approximately 23 properties listed on the EDR HIST CLEANER database located upgradient and within ¼ mile of the subject property with operations beginning as early as the 1930s. It is possible for dry cleaners to have discharged hazardous substances to the subsurface environment during this time. Langan considers the known soil vapor contamination and potential for associated vapor intrusion in subject property buildings to be a REC for the subject property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs.

ASTM E1527-21 Scope Items
De Minimis Conditions
Langan did not identify de minimis conditions.
Significant Data Gaps
Langan did not identify significant data gaps.

6.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and I have the specific qualifications based on my education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Peter J. Cusack
Associate Principal/Vice President

6/2/2023
Date

7.0 REFERENCES

Langan used the following sources to complete this Phase I ESA.

ASTM E1527-21, Standard Practice for Environmental Property Assessments: Phase I Environmental Property Assessment Process, published 16 November 2021

EDR, Inc., Radius Map Report with GeoCheck, 28 April 2023

EDR, Inc., City Directory Image Report, 1 May 2023

EDR, Inc., Aerial Photographs, 28 April 2023

EDR, Inc., Historical Topographic Map Report, 28 April 2023

EDR, Inc., Sanborn Map Report, 28 April 2023

EBI Consulting, Phase I Environmental Site Assessment, 772 Pacific Avenue, San Francisco, California, dated 21 November 2016

Langan Engineering and Environmental Services, Inc., Phase II Environmental Site Assessment and Site Mitigation Plan, 772 Pacific Avenue, San Francisco, California, dated 23 March 2023

U.S. EPA ECHO database: <http://echo.epa.gov/facilities> searched 28 April 2023

U.S. EPA ENVIROFACTS database: <https://www3.epa.gov/enviro/> searched 28 April 2023

U.S. EPA MyProperty database: <https://www3.epa.gov/enviro/facts/myproperty/> searched 28 April 2023

TABLE 7-1
Dates of Assessment Components

Component	Date
Interviews	22 May 2023
Review of government records	28 April 2023
Site reconnaissance	25 May 2023
Declaration by Environmental Professional	2 June 2023

8.0 LIMITATIONS AND DEFINITIONS

This Phase I ESA report was prepared for Client and is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. The Client

is the sole intended beneficiary of the report. The user requested no special terms or conditions regarding this Phase I ESA.

Langan's scope of services, which is described in Section 1.2 and in the contract executed between Langan and the Client, was limited to that agreed to with the Client/user and no other services beyond those explicitly stated are implied. To the extent possible, the services performed and agreed upon for this Phase I ESA are consistent with the guidelines of ASTM E1527-21.

This report is not intended to be an exhaustive assessment of the subject property. The purpose of the Phase I ESA is to reduce uncertainty about unknown conditions at the subject property. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a subject property. Therefore, Langan cannot "verify," "insure," "certify," or "guarantee" that the subject property is free of environmental concerns.

No expressed or implied representation or warranty is included or intended in this report, except that our services were completed using the care and skill ordinarily followed by professionals providing similar services under similar circumstances in similar locations at the same point in time.

The conclusions provided in this report are based solely on information obtained through completing the standard activities required by ASTM E1527-21 and are intended exclusively for the purpose stated herein, at the specified subject property, as it existed at the point in time the assessment was completed. The conclusions provided in this report do not apply to conditions and features of which Langan was not made aware of through good faith efforts to complete the activities required by ASTM E1527-21 and did not have the opportunity to evaluate.

8.1 ASTM Definitions

The following definitions are provided in ASTM E1527-21 and presented below for reference. This section is not a comprehensive list of definitions provided in ASTM E1527-21 and is intended to summarize those pertinent to this Phase I ESA report.

Activity and use limitations (AULs): legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effective-ness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the

environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, soil vapor, groundwater, and/or surface water on a property.

Adjoining properties: any real property or properties the border of which is contiguous partially contiguous with that of the subject property, or that would be contiguous or partially contiguous with that of the subject property but for a street, road, or other public thoroughfare separating them.

All Appropriate Inquiries: that inquiry constituting all appropriate inquiries into the previous ownership and uses of the subject property consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C. § 9601(35)(B) and 40 C.F.R. Part 312, that will qualify a party to a commercial real estate transaction for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42 U.S.C. §§ 9601(35)(A) & (B), § 9607(b)(3), § 9607(q), and § 9607(r)), assuming compliance with other elements of the defense.

Approximate minimum search distance: the area for which records must be obtained and reviewed pursuant to ASTM E1527-21 Section 8 subject to the limitations provided in that section. This may include areas outside the subject property and shall be measured from the nearest subject property boundary. This term is used in lieu of radius to include irregularly shaped properties.

Business environmental risk (BER): a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.

Controlled recognized environmental condition (CREC): recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

Data gap: a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.).

De minimis condition: a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

Engineering controls: physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on a property. Engineering controls are a type of activity and use limitation (AUL).

Environment: environment shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. § 9601(8).

Historical recognized environmental condition (HREC): previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

Institutional controls (IC): a legal or administrative mechanism (for example, "deed restrictions," restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. An institutional control is a type of activity and use limitation (AUL).

Key site manager: the person identified by the owner or operator of a subject property as having good knowledge of the uses and physical characteristics of the subject property.

Material threat: obvious threat which is likely to lead to a release and that, in the opinion of the environmental professional, would likely result in impact to public health or the environment.

Obvious: that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer.

Property use limitation: limitation or restriction on current or future use of a property in connection with a response to a release, in accordance with the applicable regulatory authority or authorities that allows hazardous substances or petroleum products to remain in place at concentrations exceeding unrestricted use criteria.

Reasonably ascertainable: information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

Recognized environmental conditions: (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. For the purposes of this definition, "likely" is that which is neither certain nor proved but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given therein.

Release: a release of any hazardous substance or petroleum product shall have the same meaning as the definition of "release" in CERCLA 42 U.S.C. § 9601(22). There are a number of statutory exclusions from the definition of release that may impact the environmental professional's opinions and conclusions, such as the normal application of fertilizer.

Significant data gap: a data gap that affects the ability of the environmental professional to identify a recognized environmental condition.

Site reconnaissance: that part that is contained in Section 9 of ASTM E1527-21 and addresses what should be done in connection with the site visit. The site reconnaissance includes, but is

not limited to, the site visit done in connection with such a Phase I Environmental Site Assessment.

Site visit: the visit of the subject property during which observations are made constituting the site reconnaissance section of this practice.

Subject property: the property that is the subject of the environmental site assessment described in this practice.

User: the party seeking to use ASTM E1527-21 to complete an environmental site assessment of the subject property.

8.2 Standard Environmental Record Sources

Langan reviewed an environmental database search report prepared by an environmental database search provider for the subject property and surrounding area. The database search report includes a listing of properties identified on select federal, state, local and tribal standard source environmental databases within the approximate minimum search radii outlined in ASTM E1527-21. This information was supplied to Langan by the environmental database search provider, and to the environmental database search provider by government sources; therefore, neither Langan nor the environmental database search provider can verify the completeness and accuracy of the database information. Appendix C contains a copy of the report, with specific source and property descriptions, and the dates of the last update for each database searched. Langan reviewed the database search report on a record-by-record basis to evaluate if certain properties identified in the database report are likely to represent an environmental concern for the subject property. The evaluation criteria included factors such as distance, groundwater gradient, nature of the listing, and regulatory status. Unless specifically discussed in the body of this report, the facilities listed on the database do not appear to represent an environmental concern to the subject property.

8.3 Limiting Conditions/Deviations

Langan did not encounter any limiting conditions during the preparation of this Phase I ESA. Langan did not delete or deviate from the ASTM E1527-21 guidelines during this Phase I ESA.

8.4 Data Gaps

Langan did not identify any significant data gaps during the preparation of this Phase I ESA. Data gaps that are not considered significant data gap are discussed below.

- Historical information was not readily available to characterize the subject property to its initial developed use. An 1887 Sanborn Map indicates the subject property was already developed for commercial and residential uses. Based on knowledge of the area, it is unlikely that the subject property was used for developed purposes other than commercial and residential prior to 1887.

PHASE II ENVIRONMENTAL SITE ASSESSMENT

772 and 758 Pacific Avenue

San Francisco, California

Prepared For:

Chinatown Community Development Center
1525 Grant Avenue
San Francisco, California 94133

Prepared By:

Langan CA, Inc.
135 Main Street, Suite 1500
San Francisco, California 94105



Sarah Middleton
Senior Staff Geologist



Peter J. Cusack
Associate Principal/Vice President

29 March 2024
731764201

LANGAN

29 March 2024

Ms. Bo Han
Chinatown Community Development Center
1525 Grant Avenue
San Francisco, California 94133

**Subject: Phase II Environmental Site Assessment
772 and 758 Pacific Avenue
San Francisco, California
Langan Project No. 731764202**

Dear Members of the Development Team:

Langan CA, Inc. (Langan) is pleased to submit this Phase II Environmental Site Assessment (ESA) for the property located at 772 and 758 Pacific Avenue in San Francisco, California.

We appreciate the opportunity to assist you with this project. If you have any questions or need any information clarified, please call us at (408) 283-3600.

Sincerely yours,
Langan CA, Inc.



Sarah Middleton
Senior Staff Geologist



Peter J. Cusack
Associate Principal/VP

731764201.02_Phase II ESA Report_772 & 758 Pacific

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PHASE II ENVIRONMENTAL SITE ASSESSMENT
772 and 758 Pacific Avenue
San Francisco, California

1.0 INTRODUCTION

Langan CA, Inc. (Langan) has prepared this Phase II Environmental Site Assessment (ESA) on behalf of Chinatown Community Development Center (CCDC) ("Client") for the proposed development project located at 772 and 758 Pacific Avenue in San Francisco, California (the "site", Figure 1). The site is approximately 11,450 square feet (0.26 acres) in size and is bound by Pacific Avenue to the south, commercial buildings to the east and west and mixed commercial and residential buildings to the north. The site is currently developed with a two-story commercial building (772 Pacific Avenue) occupied by New Asia Supermarket and a two-story mixed-use building occupied by a Chinese restaurant with a residential unit on the second floor (758 Pacific Avenue). The site is identified by the City and County of San Francisco Assessor Parcel Number (APN) 0161-014 and 0161-015. The Phase II ESA was completed following the guidelines of ASTM International Standard Practice E1903-19 (ASTM E1903-19).

2.0 PROJECT DESCRIPTION

We understand the existing buildings at the site will be demolished and the proposed project will consist of a 15-story building above one basement level with around 200 units of affordable housing.

3.0 LANGAN SUBSURFACE INVESTIGATION – DECEMBER 2022

Langan performed a Phase II ESA in December 2022 to evaluate the environmental quality of the soil and soil vapor that may be encountered during proposed development. In addition, soil samples were analyzed for constituents to satisfy waste profiling scenarios generally accepted by landfills.

On 13 December, six exploratory borings, LB-2 through LB-7, were advanced to depths of approximately five feet below the ground surface (bgs) by hand-auger methods at the locations shown on Figure 2. Discrete soil samples were collected from each location at approximate depths of 1.5, 3.0, and 5.0 feet bgs. Exploratory boring logs are available in Appendix A as Figures A-1 to A-6. The soil encountered was classified in accordance with the soil classification chart on Figure A-7. After completion, the boreholes were backfilled with neat cement grout and the core holes were patched with rapid-set concrete.

The objective of the soil sampling was to assess the presence of hazardous materials and petroleum hydrocarbons in the soil beneath the site that would be disturbed during the proposed construction activities. The soil samples were submitted to Torrent Laboratory Inc., a State certified laboratory in Milpitas, California for some or all of the analyses as listed below:

- Total Petroleum Hydrocarbons (TPH) gas(g), TPH diesel(d), and TPH motor oil(mo) by Environmental Protection Agency (EPA) Method 8015M;
- Volatile organic compounds (VOCs) by EPA Method 8260;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270;
- Organochlorine pesticides (OCPs) by EPA Method 8081;
- Polychlorinated biphenyls (PCBs) by EPA Method 8082;
- California Assessment Manual (CAM) 17 metals by EPA Method 6010/7000;
- Cyanide by EPA Method 4500;
- Acid Soluble Sulfides by EPA Method 4500;
- pH by EPA Method 9045C; and,
- Asbestos by California Air Resource Board (CARB) 435.

Analytical results for metal concentrations in soil were compared to the Total Threshold Limit Concentration (TTLC). Samples with concentrations of any metal in milligrams per kilograms (mg/kg) greater than 10 times the Soluble Threshold Limit Concentration value (mg/L) were also analyzed for soluble metals using the California Waste Extraction Test (WET) method and for analysis by the Federal Toxic Characteristic Leaching Procedure (TCLP). These analyses were performed to assess if metal concentrations in soil were at State and/or Federal hazardous waste levels.

Four sub-slab soil vapor pins (LV-3-SV, LV-4-SV, LV-5-SV, and LV-7-SV) were installed near select soil boring locations as shown on Figure 2 following soil sampling, backfill, and grouting. The temporary soil vapor pins were installed in the slab and sampled on 13 and 14 December 2022. After waiting at least two hours, the four sub-slab samples were collected. Helium within a vapor shroud was used as a tracer gas around the sampling assembly and above the vapor pin boring to check for leaks in the sample train and as a quality assurance/quality control measure to confirm the sample integrity. The sub-slab soil vapor sample was collected in one-liter laboratory supplied summa canister and sealed before delivery under COC protocol to McCampbell

Analytical Laboratory, a State certified analytical laboratory in Pittsburg, California for analysis of VOCs via USEPA Method TO-15 SIM, helium, oxygen, methane, and carbon dioxide by ASTM D-1946.

The soil vapor sampling was conducted in general accordance with procedures established by the California Department of Toxic Substances Control (DTSC), which is outlined in the documents titled “Advisory – Active Soil Gas Investigation” dated July 2015 and “Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air” dated October 2011.

3.1 Soil Analytical Results

Soil analytical results for parameters other than metals are summarized in Table 1. The results of the investigation were compared to 2019 Regional Water Quality Control Board (RWQCB) Environmental Screening Limits (ESLs) for residential and commercial land use. TPHd was detected above laboratory reporting limits in eight of the 16 samples analyzed, at concentrations between 2.17 milligram per kilogram (mg/kg) and 9.63 mg/kg, none of which exceeded the residential or commercial ESLs. TPHmo was detected above laboratory reporting limits in 12 of the 16 samples analyzed, at concentrations ranging between 5.74 mg/kg and 43.2 mg/kg, none of which exceeded the residential or commercial ESLs. TPHg was not detected in any of the 16 samples analyzed. A total of 19 SVOC compounds (see Table 1 for full list) were detected above the laboratory reporting limits in nine of the 16 samples analyzed at concentrations ranging from 0.0104 mg/kg to 0.313 mg/kg. No SVOC compounds were detected above the residential or commercial ESLs.

One OCP compound, 4,4-DDE, was detected above the laboratory reporting limits in one of the 16 samples analyzed. No OCP compounds were detected above residential or commercial ESLs in any soil samples. No VOCs, PCBs, cyanides, acid soluble sulfides, or asbestos were detected above laboratory reporting limits in the samples analyzed.

The metals analytical results are summarized in Table 2. Total lead was detected above laboratory reporting limits in all 16 of the samples analyzed, at concentrations ranging between 2.45 mg/kg and 846 mg/kg. Four of the samples had detected concentrations of total lead above 50 mg/kg (10 times the STLC) and were subsequently analyzed for STLC lead to determine soluble lead levels. STLC lead was detected above the laboratory reporting limit in each of the four samples analyzed at concentrations ranging from 0.987 milligram per liter (mg/L) to 72.7 mg/L. STLC lead was detected at a concentration exceeding the STLC State of California hazardous waste criteria

of 5 mg/L in two of the four samples analyzed. Three samples were analyzed for TCLP lead to determine soluble lead levels. TCLP lead was detected above the laboratory reporting limit in one of the three samples analyzed at a concentration of 0.873 mg/L, which does not exceed the Federal hazardous waste criteria of 5 mg/L. Four soil samples exceeded the residential ESL for lead of 82 mg/kg.

Total chromium was detected above the laboratory reporting limit in each of the 16 samples analyzed at concentrations ranging from 44.3 mg/kg to 103 mg/kg. None of the total chromium concentrations detected exceed the TTLC State of California hazardous waste criteria of 2,500 mg/kg. Total chromium in 14 soil samples was detected at a concentration above 50 mg/kg (10 times the STLC) and were subsequently analyzed for STLC chromium to determine soluble chromium levels. STLC chromium was detected above the laboratory reporting limit in eight of the 16 samples analyzed at concentrations ranging from 0.234 mg/L to 1.71 mg/L, none of which exceeded the STLC State of California hazardous waste criterion of 5 mg/L.

Total mercury was detected above the laboratory reporting limit in six of the 16 samples analyzed at concentrations ranging from 0.14 mg/kg to 13 mg/kg. Total mercury in three sample (LB-2-1.5, LB-2-3.0, and LB-5-1.5) was detected at concentrations above 2.0 mg/kg (10 times the STLC) and was subsequently analyzed for STLC mercury to determine soluble mercury levels. STLC mercury was not detected above the laboratory reporting limits in any of the samples analyzed.

The remaining metal concentrations were below ESLs or within normal background ranges found in the San Francisco Bay Area. Analytical laboratory reports are provided as Appendix B.

3.2 Soil Vapor Analytical Results

Soil vapor analytical results are presented in Table 3. Sixteen VOCs (see Table 3 for full list) were detected above their respective laboratory reporting limits in the four samples analyzed. Benzene was detected in three of four samples analyzed above the residential ESL of 3.2 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) at concentrations between $3.2 \mu\text{g}/\text{m}^3$ and $4.5 \mu\text{g}/\text{m}^3$. Chloroform was detected in two of the four samples analyzed above the residential ESL of $4.1 \mu\text{g}/\text{m}^3$ at concentrations of $13 \mu\text{g}/\text{m}^3$ and $24 \mu\text{g}/\text{m}^3$. Naphthalene was detected above the commercial ESL of $12 \mu\text{g}/\text{m}^3$ at a concentration of $39 \mu\text{g}/\text{m}^3$ in one sample (LB-7-SV). PCE was detected above the residential ESL of $15 \mu\text{g}/\text{m}^3$ at a concentration of $27 \mu\text{g}/\text{m}^3$ in one sample (LB-4-SV). The remaining VOCs in soil vapor were below their respective ESLs.

Helium was used as a tracer gas around the sampling assembly and borehole during sample collection as a quality assurance/quality control (QA/QC) measure to confirm the sample integrity. No helium was detected above the laboratory reporting limit in the soil vapor samples analyzed. Oxygen and carbon dioxide were analyzed to assess the potential for petroleum vapor bio-attenuation in the shallow soil zone beneath the site. Oxygen was detected above the laboratory reporting limit in each of the soil vapor samples analyzed at levels ranging from 16 to 25 percent by volume (%V). Carbon dioxide was detected above the laboratory reporting limit in each of the soil vapor samples analyzed at concentrations ranging from 0.0044 to 1.1 %V. Analytical laboratory reports are provided as Appendix B.

4.0 SITE AND SUBSURFACE CONDITIONS

4.1 Site Conditions

The site is currently developed with a two-story at grade commercial building (772 Pacific Avenue) occupied by New Asia Supermarket and a two-story at grade mixed use building occupied by a Chinese restaurant with a residential unit on the second floor (758 Pacific Avenue). The general site topography slopes down to the southeast, with adjacent ground surface elevations ranging from about Elevation 88 feet¹ at the northwestern corner of the site to about Elevation 83 feet at the southeastern corner of the site. The existing buildings are bordered by Pacific Avenue on the south and by low-rise commercial and residential buildings on the west, north, and east. Neighboring buildings are constructed at grade and are likely supported on shallow foundations.

4.2 Subsurface Conditions

The site is generally underlain by up to about 13½ feet of undocumented fill over dense to very dense sand which is in-turn likely underlain by bedrock. The undocumented fill consists of very soft to stiff clay with interbedded medium dense sand. The undocumented fill is underlain by dense to very dense sand, which was encountered between depths of five and 13½ feet bgs.

Groundwater was not encountered in any of the borings or CPTs. The mapped historical high groundwater level at the site is shown to be about 10 to 15 feet beneath street grades (California Division of Mines and Geology, 2000). The groundwater level may fluctuate several feet seasonally, depending on rainfall conditions.

¹ Approximate ground surface elevations taken from the National Oceanographic and Atmospheric Administration (NOAA) database. Elevations in this report reference the North American Vertical Datum of 1988 (NAVD88).

5.0 DISCUSSION

The results of Langan's subsurface investigation indicate that the site is underlain by one to three feet of fill material in some locations with elevated concentrations of heavy metals. Based on the analytical results from our subsurface investigation and previous environmental testing, two soil samples exceed the State of California hazardous waste criteria and will require disposal as State of California Class I non-RCRA hazardous waste. The areas containing material exceeding State of California Class I non-RCRA hazardous criteria are presented in Figure 3. Soil samples collected from boring LB-5 at a depth of 1.5 feet bgs, and boring LB-7 at a depth of 1.5 feet bgs exceeded the State of California hazardous waste criteria. The material in these areas will most likely be disposed of as a State of California Class I non-RCRA hazardous waste and/or will require additional testing during construction.

The remaining fill material on-site (outside of the areas with concentrations exceeding hazardous waste thresholds) will most likely be disposed of as Class II non-hazardous material due to heavy metals concentrations. Final soil acceptance is dependent on the receiving landfill or facility's acceptance criteria.

Because fill material exists beneath the site, a health and safety plan (HASP) (prepared by others) and a Site Mitigation Plan (SMP) should be prepared and implemented prior to construction. The SMP will provide recommended measures to mitigate the long-term environmental or health and safety (H&S) risks caused by the presence of heavy metals in the soil. The HASP will outline proper soil handling procedures and health and safety requirements to minimize worker and public exposure to heavy metals during construction activities.

As a result of the concentrations of PCE exceeding its RWQCB ESL in soil vapor, Langan recommends the installation of a vapor intrusion mitigation system (VIMS) be included in future building design as a conservative vapor mitigation measure. The recommended passive vapor barrier would consist of a continuous, spray-applied vapor barrier membrane located immediately beneath the structural building slab. Below-grade utility conduits entering the building will be sealed to prevent VOC migration along the conduits from outside the building into the sub-slab space beneath the building. The proposed design of the vapor barrier will be performed by a professional engineer (PE) registered in the State of California. In addition, the design engineer will perform construction observation during the installation of the various components of the VIMS.

6.0 LIMITATIONS

Descriptions of specific field activities and historical events are based on our observations and on information provided by others. The opinions and information presented in this report apply to site conditions and the information that was available at the time the work was performed and do not apply to changes of which we are not aware or have not had the opportunity to evaluate. Langan makes no guarantees or warranties with respect to the accuracy or completeness of this information.

TABLES

Table 1
Soil Analytical Results for Non-metals
772 Pacific Avenue
San Francisco, California

731764201
March 2024

Sample ID	Sample Depth (feet bgs)	Date Sampled	TPHg	TPHd	TPHmo	VOCs	N-nitroso -di-n-propylamine	Acenaph-thene	Dibenozo-furan	Fluorene	Phenan-threne	Anthracene	Carbazole	Fluoroan-thene	Pyrene	Benzo(a)-anthracene	Chrysene	Bis (2-ehthylhexyl) phthalate	Benzo(b) fluoroan-thene	Benzo(k) fluoroan-thene	Benzo(a) pyrene
			mg/kg																		
LB-2-1.5	1.5	12/13/2022	< 0.043	6.95 x	43.2	ND	< 0.0132	0.0109 J	0.013 J	0.011J	0.078 J	0.0168 J	0.0119 J	0.0654 J	0.0763 J	0.0311 J	0.0419 J	0.0755 J	0.0632 J	0.0104 J	0.0183 J
LB-2-3.0	3.0	12/13/2022	< 0.043	3.77 x	16.6	ND	0.0141 J	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0177 J	< 0.0098	< 0.0152	0.0302 J	< 0.012	< 0.00816	< 0.0098
LB-2-5.0	5.0	12/13/2022	< 0.043	2.17 x	9.64	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-3-1.5	1.5	12/13/2022	< 0.043	9.63 x	8.00	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0186 J	< 0.0098	< 0.0152	0.0224 J	< 0.012	< 0.00816	< 0.0098
LB-3-3.0	3.0	12/13/2022	< 0.043	4.73 x	6.14	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0137 J	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-3-5.0	5.0	12/13/2022	< 0.043	2.91 x	10.4	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	0.0186 J	< 0.012	< 0.00816	< 0.0098
LB-4-1.5	1.5	12/13/2022	< 0.043	< 0.66	< 0.76	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0149 J	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-4-3.0	3.0	12/13/2022	< 0.043	< 0.66	< 0.76	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-4-5.0	5.0	12/13/2022	<0.043	< 0.66	< 0.76	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	0.0223 J	< 0.012	< 0.00816	< 0.0098
LB-5-1.5	1.5	12/13/2022	< 0.043	3.79 x	17.5	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	0.0673 J	0.0118 J	< 0.0107	0.0724 J	0.0811 J	0.0565 J	0.0677 J	< 0.0153	0.0797 J	0.0266 J	0.0790 J
LB-6-2.0	2.0	12/13/2022	< 0.043	< 0.66	5.82	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-6-3.5	3.5	12/13/2022	< 0.043	< 0.66	< 0.76	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-6-5.0	5.0	12/13/2022	< 0.043	< 0.66	6.38	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-7-1.5	1.5	12/13/2022	< 0.043	2.51 x	22.4	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0168 J	< 0.0098	< 0.0152	0.313 J	< 0.012	< 0.00816	< 0.0098
LB-7-3.0	3.0	12/13/2022	< 0.043	< 0.66	6.32	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-7-5.0	5.0	12/13/2022	< 0.043	< 0.66	5.74	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
Screening Criteria (mg/kg)																					
RWQCB Tier 1 ESLs ¹			100	260	100	Various	--	12,000	--	6	7.8	1.9	--	0.69	7.8	0.63	2.2	0.8	1.1	2.8	0.11
RWQCB Residential ESLs - Cancer Risk ¹			--	--	--	Various	--	--	--	--	--	--	--	--	--	1.1	110	39	1.1	11	0.11
RWQCB Residential ESLs - Non-Cancer Hazard ²			430	260	12,000	Various	--	3600	--	2400	--	18000	--	2400	1800	--	--	1300	--	--	18
RWQCB Commercial / Industrial ESLs - Cancer Risk ³			--	--	--	Various	--	--	--	--	--	--	--	--	--	20	2100	160	2.1	210	2.1
RWQCB Commercial / Industrial ESLs - Non-Cancer Hazard ⁴			2,000	1,200	180,000	Various	--	45,000	--	30,000	--	2300000	--	30000	23,000	--	--	16000	--	--	220
Asbestos Toxic Control Measure ⁵			--	--	--	--															

Table 1
Soil Analytical Results for Non-metals
772 Pacific Avenue
San Francisco, California

Sample ID	Sample Depth (feet bgs)	Date Sampled	Indeno (1,2,3-c,d) pyrene	Benzo (g,h,i) perylene	Naphthalene	2-Methylnaphthalene	All Other SVOCs	4,4 - DDE	All Other OCPs	PCBs	Total Cyanides	pH	Asbestos
			mg/kg										%
LB-2-1.5	1.5	12/13/2022	0.0153 J	< 0.0167	0.0299 J	0.013 J	ND	0.000679 J	ND	ND	ND	5.79	ND
LB-2-3.0	3.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	6.72	ND
LB-2-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	6.63	ND
LB-3-1.5	1.5	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.73	ND
LB-3-3.0	3.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.65	ND
LB-3-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.78	ND
LB-4-1.5	1.5	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.40	ND
LB-4-3.0	3.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.72	ND
LB-4-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.50	ND
LB-5-1.5	1.5	12/13/2022	0.063 J	0.063 J	0.0262 J	< 0.0104	ND	< 0.00061	ND	ND	ND	8.17	ND
LB-6-2.0	2.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.07	ND
LB-6-3.5	3.5	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.50	ND
LB-6-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.25	ND
LB-7-1.5	1.5	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.19	ND
LB-7-3.0	3.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.40	ND
LB-7-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.12	ND
Screening Criteria (mg/kg)													
RWQCB Tier 1 ESLs ¹			0.48	2.5	0.042	0.88	Various	0.33	Various	Various	0.0034	--	--
RWQCB Residential ESLs - Cancer Risk ¹			1.1	--	3.8	--	Various	1.8	Various	Various	--	--	--
RWQCB Residential ESLs - Non-Cancer Hazard ²			--	--	130	240	Various	--	Various	Various	5.5	--	--
RWQCB Commercial / Industrial ESLs - Cancer Risk ³			21	--	17	--	Various	8.3	Various	Various	--	--	--
RWQCB Commercial / Industrial ESLs - Non-Cancer Hazard ⁴			--	--	580	3000	Various	--	Various	Various	250	--	--
Asbestos Toxic Control Measure ⁵							--			--	--	--	0.25

Table 1
Soil Analytical Results for Non-metals
772 Pacific Avenue
San Francisco, California

731764201
March 2024

Abbreviations:

TPHg = Total Petroleum Hydrocarbons as Gasoline

TPHd = Total Petroleum Hydrocarbons as Diesel

TPHmo = Total Petroleum Hydrocarbons as Motor Oil

VOCs = Volatile Organic Carbons

SVOCs = Semi-volatile Organic Carbons

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram

ug/kg = Micrograms per kilograms

ND = Not detected at or above the laboratory reporting limit

" - " = Not analyzed or screening criteria not established

< 0.5 = Analyte was not detected above the laboratory reporting limit (0.5 mg/kg).

J = Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather than quantitative

x = Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards

ESLs = Environmental Screening Levels

RWQCB = San Francisco Bay Regional Water Quality Control Board

ATCM - Asbestos Toxic Control Measure

Notes:

Underline indicates concentration is at or above Tier 1 ESLs

Bold indicates concentration is above Residential ESLs

Bold indicates concentration is above Commercial ESLs

¹ - San Francisco Bay Regional Water Quality Control Board (RWQCB), Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Tier 1 Environmental Screening Levels, dated January 2019

² - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Residential Cancer Risk Environmental Screening Levels, dated January 2019

³ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Residential Non-Cancer Risk Environmental Screening Levels, dated January 2019

⁴ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Commercial / Industrial, Cancer Risk Environmental Screening Levels, dated January 2019

⁵ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Commercial / Industrial, Non-Cancer Risk Environmental Screening Levels, dated January 2019

⁶ - Asbestos Toxic Control Measure (ATCM), California Air Resources Board regulatory threshold screening level

Table 2
Soil Analytical Results for Metals
772 Pacific Avenue
San Francisco, California

731764201
March 2024

Sample ID	Sample Depth (feet bgs)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	STLC Chromium	Cobalt	Copper	Lead	STLC Lead	TCLP Lead	Molybdenum	Mercury	STLC Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units				mg/kg					mg/L	mg/kg			mg/L		mg/kg		mg/L	mg/kg					
LB-2-1.5	1.5	12/13/2022	2.40	7.98	195	0.224 J	0.312 J	64.1	0.702	3.31	104	598	0.987	< 0.050	0.644 J	7.6	< 0.020	23.3	1.56	0.696	< 0.34	35.7	178
LB-2-3.0	3.0	12/13/2022	0.806 J	8.44	124	0.352 J	0.772 J	57.3	1.71	17.0	44.2	113	1.86	--	0.493 J	3.9	< 0.020	34.6	2.23	0.587	< 0.34	41.9	516
LB-2-5.0	5.0	12/13/2022	< 0.12	3.18	76.7	0.275 J	< 0.084	97.0	0.878	8.66	10.9	4.16	--	--	0.196 J	0.14 J	--	45.6	1.91	0.182 J	< 0.34	63.8	143
LB-3-1.5	1.5	12/13/2022	0.149 J	3.31	73.1	0.349 J	0.114 J	69.4	1.51	11.6	13.7	40.2	--	--	0.255 J	0.34 J	--	40.7	2.20	<0.098	< 0.34	54.7	85.5
LB-3-3.0	3.0	12/13/2022	< 0.12	2.92	62.6	0.305 J	< 0.084	72.6	0.387	8.95	10.6	20.9	--	--	0.180 J	< 0.083	--	40.1	1.73	< 0.098	< 0.34	49.3	52.3
LB-3-5.0	5.0	12/13/2022	< 0.12	3.01	75.2	0.329 J	0.0940 J	82.2	0.234	13.1	9.63	4.87	--	--	0.152 J	< 0.083	--	61.2	2.06	< 0.098	< 0.34	58.5	40.0
LB-4-1.5	1.5	12/13/2022	< 0.12	2.61	65.2	0.298 J	< 0.084	72.5	0.462	6.29	7.28	3.25	--	--	< 0.13	< 0.083	--	36.3	2.04	< 0.098	< 0.34	50.2	26.7
LB-4-3.0	3.0	12/13/2022	< 0.12	3.47	90.1	0.340 J	< 0.084	86.8	< 0.010	10.5	9.32	3.71	--	--	0.157 J	< 0.083	--	53.5	2.39	< 0.098	< 0.34	60.4	29.4
LB-4-5.0	5.0	12/13/2022	< 0.12	2.93	57.8	0.289 J	< 0.084	71.5	< 0.010	12.8	7.95	4.85	--	--	0.135 J	< 0.083	--	50.7	1.90	< 0.098	< 0.34	51.3	27.6
LB-5-1.5	1.5	12/13/2022	2.43	4.14	107	0.281 J	0.224 J	44.3	--	9.18	15.8	473	18.5	< 0.20	0.331 J	13.0	< 0.020	23.3	1.57	0.104 J	< 0.34	38.1	182
LB-6-2.0	2.0	12/13/2022	< 0.12	4.14	121	0.395 J	< 0.084	89.7	< 0.010	11.5	10.5	5.81	--	--	0.197 J	< 0.083	--	51.7	2.55	< 0.098	< 0.34	61.4	28.5
LB-6-3.5	3.5	12/13/2022	< 0.12	3.71	50.7	0.246 J	< 0.084	103	< 0.010	6.20	6.80	2.45	--	--	< 0.13	< 0.083	--	56.1	1.91	< 0.098	< 0.34	59.5	23.9
LB-6-5.0	5.0	12/13/2022	< 0.12	3.61	35.4	0.235 J	< 0.084	96.2	0.438	6.61	7.22	3.11	--	--	< 0.13	< 0.083	--	54.0	1.73	< 0.098	< 0.34	56.6	24.0
LB-7-1.5	1.5	12/13/2022	0.534 J	3.64	576	0.294 J	0.0960 J	49.2	--	8.85	141	846	72.7	0.873	0.320 J	0.99	--	20.9	1.72	1.70	< 0.34	32.9	204
LB-7-3.0	3.0	12/13/2022	< 0.12	3.25	70.6	0.399 J	< 0.084	75.5	< 0.010	4.35	10.1	6.21	--	--	0.262 J	< 0.083	--	22.1	2.24	< 0.098	< 0.34	50.8	20.5
LB-7-5.0	5.0	12/13/2022	< 0.12	3.13	98.6	0.345 J	< 0.084	84.5	< 0.010	8.05	7.97	10.9	--	--	< 0.13	< 0.083	--	42.5	1.90	< 0.098	< 0.34	56.3	26.0
Screening Criteria																							
RWQCB Tier 1 ESLs ¹			11	0.067	390	5	1.9	160	--	23	180	32	--	--	6.9	13	--	86	2	250	0.78	18	340
RWQCB Residential ESLs - Cancer Risk ²			--	0.067	--	1600	910	--	--	420	--	82	--	--	--	--	--	15,000	--	--	--	--	--
RWQCB Residential ESLs - Non-Cancer Hazard ³			11	0.26	15,000	16	78	--	--	23	3,100	80	--	--	390	13	--	820	390	390	0.78	390	23000
RWQCB Commercial / Industrial ESLs - Cancer Risk ⁴			--	0.31	--	6900	4000	--	--	1900	--	380	--	--	--	--	--	64000	--	--	--	--	--
RWQCB Commercial / Industrial ESLs - Non-Cancer Hazard ⁵			160	3.6	220,000	230	1,100	--	--	350	47,000	320	--	--	5,800	190	--	11000	5800	5800	12	5,800	350000
CAEPA Total Threshold Limit Concentration (TTLC)			500	500	10,000	75	100	2,500	--	8000	2500	1000	--	--	3500	20	--	2000	100	500	700	2400	5000
California Soluble Limit Concentration (STLC)			15	--	--	1	1	--	5	--	--	--	5	5	350	0.2	0.2	--	1	--	7	--	--
Federal Toxicity Characteristic Leaching Procedure (TCLP)			--	--	--	--	1	--	5	--	--	--	5	5	--	0.2	--	--	1	--	--	--	--
Background Metal Concentrations ⁶			1.5-7.1	1.2-31	41-411	0.29-1.1	0.27-3.3	10-142	--	6.2-25.5	5.4-100	4.8-65	--	--	0.33-11.4	0.07-0.6	--	16-144	< 0.25-7	0.2-2.2	< 0.25-42.5	22-90	33-282

Abbreviations:
mg/kg = miligrams per kilogram
mg/L = miligrams per liter
ND = Not detected at or above the laboratory reporting limit
" -- " = Not analyzed or screening criteria not established
64.1 - Concentration is greater than 10 times the STLC
18.5 - Concentration exceeds hazardous waste threshold
< 0.5 = Analyte was not detected above the laboratory reporting limit (0.5 mg/kg).
J = Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather than quantitative
ESLs = Environmental Screening Levels
RWQCB = San Francisco Bay Regional Water Quality Control Board
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
TCLP - Toxicity Characteristic Leaching Procedure

Notes:
Underline indicates concentration is at or above Tier 1 ESLs
Bold indicates concentration is above Residential ESLs
Bold indicates concentration is above Commercial ESLs or Hazardous Waste Criteria
Highlight indicates concentration is above Background Metal Concentrations

¹ - San Francisco Bay Regional Water Quality Control Board (RWQCB), Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Tier 1 Environmental Screening Levels, dated January 2019
² - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Residential Cancer Risk Environmental Screening Levels, dated January 2019
³ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Residential Non-Cancer Risk Environmental Screening Levels, dated January 2019
⁴ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Commercial / Industrial, Cancer Risk Environmental Screening Levels, dated January 2019
⁵ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Commercial / Industrial, Non-Cancer Risk Environmental Screening Levels, dated January 2019
⁶ - Environmental Resources Management. Feasibility Study, Hookston Station, Pleasant Hill, California. Appensix A, Table A-1, "Comparison of Background Concentrations of Metals in Bay Area Soils," July 2006.



Table 3
Soil Vapor Analytical Results
772 Pacific Avenue
San Francisco, California

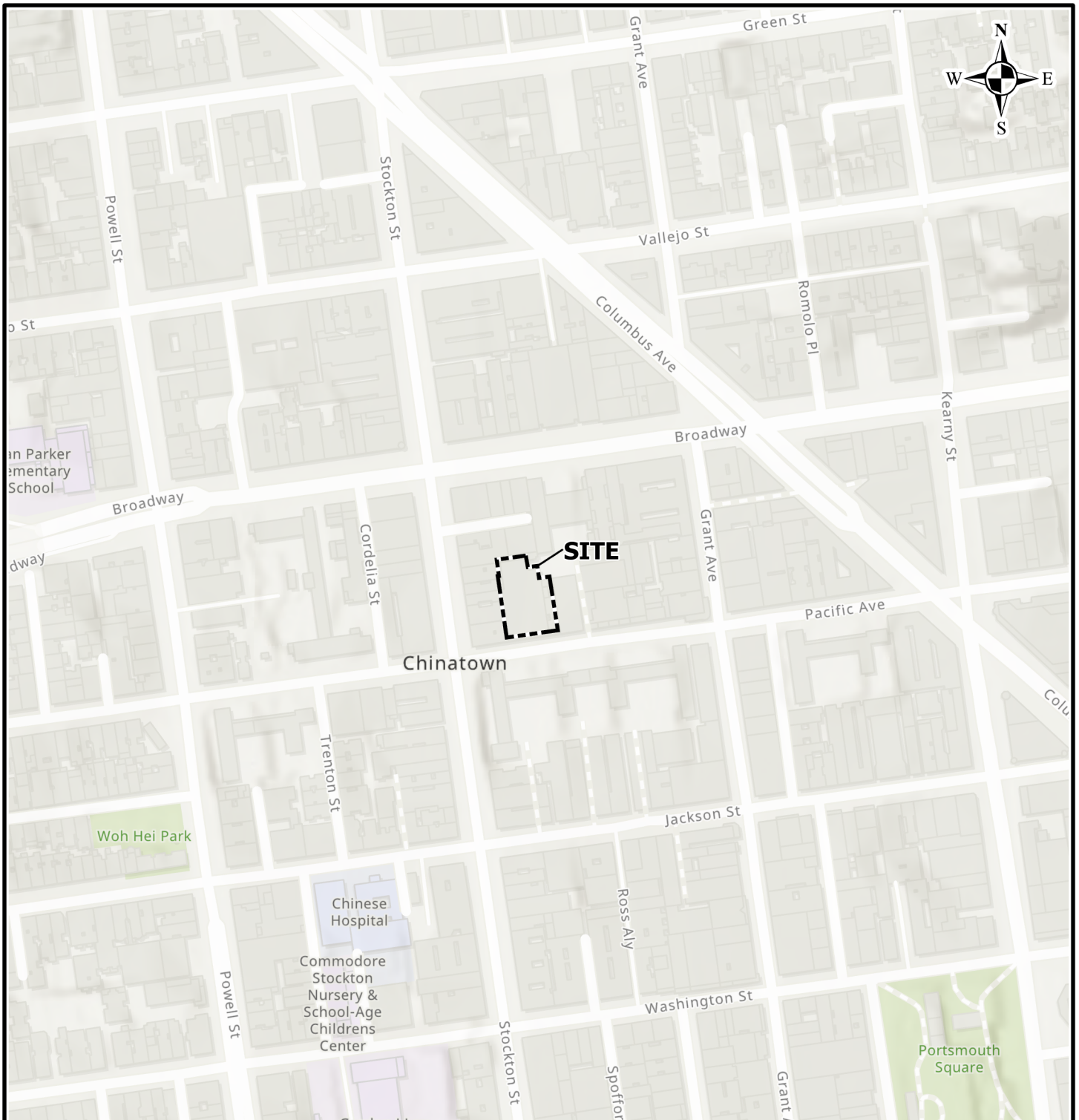
Sample ID	Sample Depth (feet bgs)	Date Sampled	Acetone	Benzene	2-Butanone (MEK)	Chloroform	Chloro- methane	Dichlorodi- fluoro- methane	2- Hexanone	MIBK	Naphthale ne	Styrene	PCE	Toluene	Trichloro- fluoro- methane	1,2,4- Trimethyl- benzene	Xylene (m+p)	Xylene (o)	All Other VOCs	Oxygen	Carbon Dioxide	Helium
Units			µg/m ³																		%v	
LB-3-SV	NA	12/13/2022	< 60	3.2	< 15	< 2.5	2.2	< 2.5	< 2.1	< 2.1	< 2.7	< 2.2	< 3.5	< 1.9	< 2.9	< 2.5	< 4.4	< 2.2	ND	25	0.033	ND
LB-4-SV	NA	12/13/2022	110	4.0	23	24	< 1.0	17	6.0	2.3	< 2.7	< 2.2	27	3.6	31	< 2.5	< 4.4	< 2.2	ND	16	0.90	ND
LB-5-SV	NA	12/13/2022	110	2.1	34	13	< 1.0	< 2.5	6.4	6.3	< 2.7	< 2.2	5.0	2.6	3.4	3.7	< 4.4	< 2.2	ND	16	1.1	ND
LB-7-SV	NA	12/14/2022	< 60	4.5	< 15	< 2.5	< 1.0	< 2.5	7.5	3.1	39	2.8	10	10	< 2.9	5.5	7.0	3.1	10	18	0.0044	ND
Screening Criteria (ug/m ³)																						
RWQCB Residential ESLs - Cancer Risk ¹			--	3.2	--	4.1	--	--	--	--	2.8	--	15	--	--	--	--	--	Various	--	--	--
RWQCB Residential ESLs - Non-Cancer Hazard ²			1,100,000	100	170,000	3,400	3,100	--	--	100,000	100	31,000	1,400	10,000	--	--	3,500	3,500	Various	--	--	--
RWQCB Commercial / Industrial ESLs - Cancer Risk ³			--	14	--	18	--	--	--	--	12	--	67	--	--	--	--	--	Various	--	--	--
RWQCB Commercial / Industrial ESLs - Non-Cancer Hazard ⁴			4,500,000	440	730,000	14,000	13,000	--	--	440,000	440	130,000	5,800	44,000	--	--	15,000	15,000	Various	--	--	--

Notes:
bgs - below grade surface
MIBK = Methyl isobutyl ketone
MEK = 2-Butanone
PCE - Tetrachloroethene
TCE- Trichloroethene
TPHg = Total Petroleum Hydrocarbons as Gasoline
VOCs = Volatile organic compounds
µg/m³- Micrograms per cubic meter
%v - Percent by volume
< 5.3 - Analyte was not detected above the laboratory reporting limit (5.3 µg/m³)
-- Not analyzed , or screening criteria not established
ND - Analyte Not Detected
RWQCB = San Francisco Bay Regional Water Quality Control Board

Notes:
Bold indicates concentration is at or above Residential ESLs
Bold indicates concentration is at or above Commercial ESLs
¹ - RWQCB, Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1) Residential Cancer Risk Environmental Screening Levels, dated January 2019
² - RWQCB, Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1) Residential Non-Cancer Risk Environmental Screening Levels, dated January 2019
³ - RWQCB, Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1) Commercial / Industrial, Cancer Risk Environmental Screening Levels, dated January 2019
⁴ - RWQCB, Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1) Commercial / Industrial, Non-Cancer Risk Environmental Screening Levels, dated January 2019



FIGURES



Legend

 Approximate Site Boundary

Notes:

1. Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online Copyright: © 2019 National Geographic Society, i-cubed.
2. Site located in the San Francisco North USGS Quadrangle.
3. All features shown are approximate.



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Langan Engineering and
Environmental Services, Inc.

135 Main Street, Suite 1500
San Francisco, CA 94105

T: 415.955.5200 F: 415.955.5201
www.langan.com

Project

**772 & 758 PACIFIC
AVENUE**

SAN FRANCISCO

SAN FRANCISCO COUNTY

CALIFORNIA

Figure Title

**SITE
LOCATION MAP**

Project No.

731764201

Date

3/25/2024

Scale

1" = 250'

Drawn By

AC

Figure

1



Legend

- Approximate Location of Geotechnical CPT Boring
- Approximate Location of Geotechnical DPT Boring and Environmental Soil Sample
- Approximate Location of Environmental Soil and Soil Vapor Sample
- Approximate Site Boundary

Notes:

1. Aerial imagery provided by Nearmap, 9/16/2022.
2. All features shown are approximate.

SCALE IN FEET

25 0 25

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Project

772 & 758 PACIFIC AVENUE

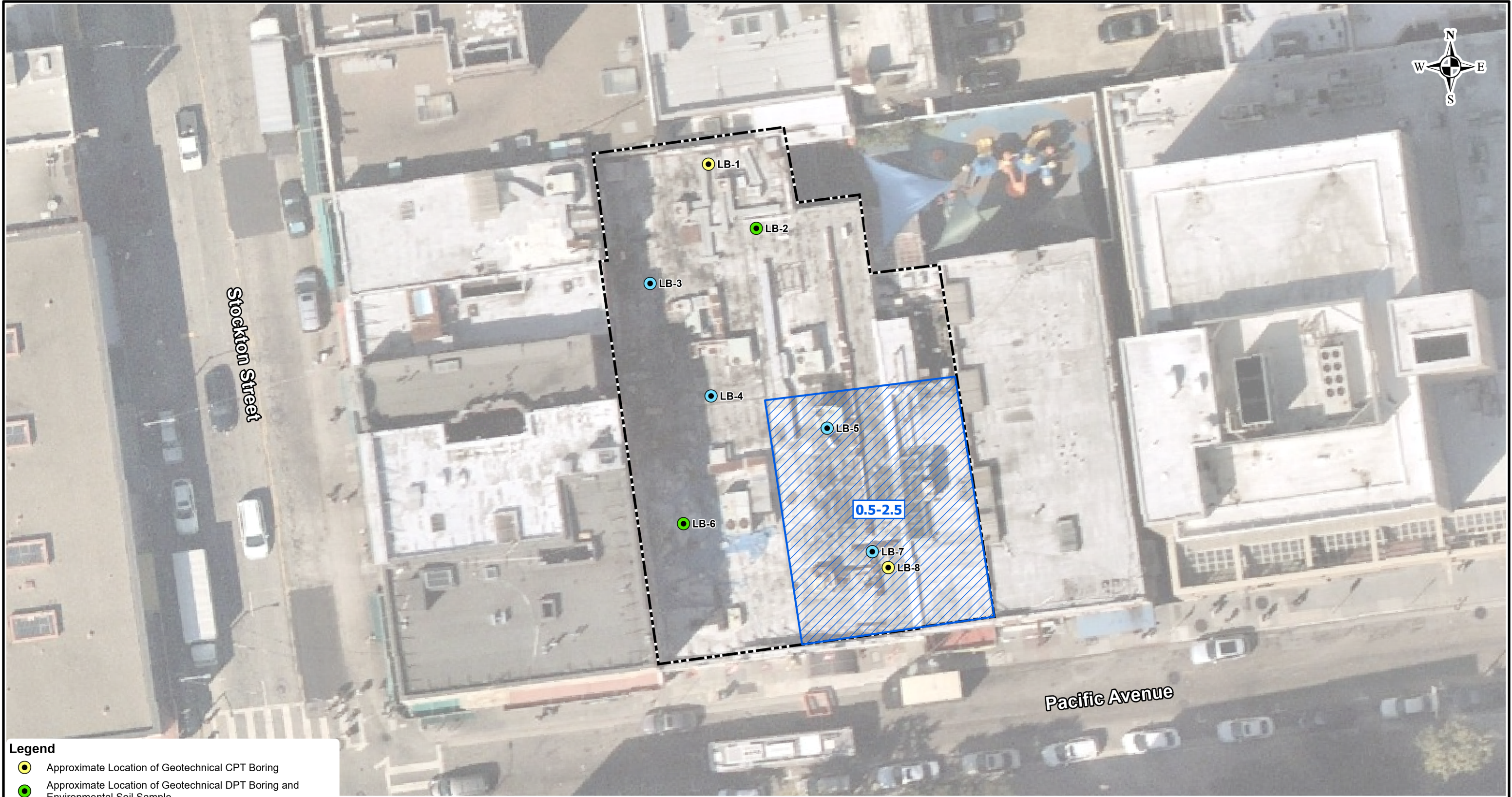
SAN FRANCISCO

SAN FRANCISCO COUNTY CALIFORNIA

Figure Title

SITE PLAN

Project No.	731764201	2
Date	3/25/2024	
Scale	1" = 25'	
Drawn By	AC	



Legend

- Approximate Location of Geotechnical CPT Boring
- Approximate Location of Geotechnical DPT Boring and Environmental Soil Sample
- Approximate Location of Environmental Soil and Soil Vapor Sample
- Approximate location of Don Hillebrandt Associates boring, November 1980
- Approximate Site Boundary
- Approximate Area with Soil Concentrations Exceeding State of California Class I Non-RCRA Hazardous Waste Thresholds
- Approximate Depth (feet bgs) of Material Exceeding State of California Class I non-RCRA Hazardous Waste Thresholds

Notes:
1. Aerial imagery provided by Nearmap, 9/16/2022.
2. All features shown are approximate.
3. feet bgs = feet below ground surface



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135 Main Street, Suite 1500
San Francisco, CA 94105
T: 415.955.5200 F: 415.955.5201 www.langan.com

Project

772 & 758 PACIFIC AVENUE

SAN FRANCISCO

SAN FRANCISCO COUNTY CALIFORNIA

Figure Title

**SITE PLAN WITH
HAZARDOUS
WASTE DELINEATION**

Project No. 731764201	3
Date 3/25/2024	
Scale 1" = 25'	
Drawn By AC	

APPENDIX A
EXPLORATORY BORING LOGS

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-2

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: D. Cohen-Kaplan
Drilled By: Langan Engineering

Date started: 12/13/22

Date finished: 12/13/22

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-2-1.5	●			0.0	CL	CLAY with SILT and SAND (CL) brown-tan, very soft, saturated, very plastic [FILL] weak organic odor, glass and brick noted
2					0.2		
3	LB-2-3.0	●			0.1		
4					0.0	CL	SANDY CLAY (CL) reddish-brown, stiff, moist to wet, plastic, no odor
5	LB-2-5.0	●			0.0		
6							
7							
8							
9							
10							

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGANProject No.:
731764201Figure:
A-1

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-3

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: D. Cohen-Kaplan
Drilled By: Langan Engineering

Date started: 12/13/22

Date finished: 12/13/22

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES					OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)				
1	LB-3-1.5	●				0.1	CL	CLAY with SILT and SAND (CL) gray, brown, very soft, saturated, plastic, weak organic odor [FILL]
2						0.1		
3	LB-3-3.0	●				0.1	CL	SANDY CLAY (CL) reddish-brown, soft to medium stiff, wet, plastic, weak organic odor [COLMA]
4						0.1		
5	LB-3-5.0	●				0.1		
6								
7								
8								
9								
10								

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGANProject No.:
731764201Figure:
A-2

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE CA-MODIFIED - COPY GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-4

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 12/13/22

Date finished: 12/13/22

Logged by:
Drilled By:D. Cohen-Kaplan
Langan Engineering

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-4-1.5	●			0.0	CL	SANDY CLAY (CL) reddish-brown, stiff, moist, plastic, no odor [COLMA]
2					0.0		
3	LB-4-3.0	●			0.0		
4					0.0		
5	LB-4-5.0	●			0.0		
6							
7							
8							
9							
10							

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGAN

Project No.:

731764201

Figure:

A-3

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-5

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 12/13/22

Date finished: 12/13/22

Logged by:
Drilled By:D. Cohen-Kaplan
Langan Engineering

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-5-1.5				0.2	CL	SANDY CLAY with GRAVEL (CL) brown, reddish-brown, very stiff, moist, plastic
2					0.2		Refusal encountered at 2 feet
3							
4							
5							
6							
7							
8							
9							
10							

End of boring at 2 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.**LANGAN**

Project No.:

731764201

Figure:

A-4

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-6

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 12/13/22

Date finished: 12/13/22

Logged by:
Drilled By:D. Cohen-Kaplan
Langan Engineering

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-6-1.5	●			0.0	CL	SANDY CLAY (CL) reddish-brown, stiff, moist, plastic, no odor [COLMA]
2					0.0		
3	LB-6-3.0	●			0.0		
4					0.0		
5	LB-6-5.0	●			0.0		
6							
7							
8							
9							
10							

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGAN

Project No.:

731764201

Figure:

A-5

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-7

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: D. Cohen-Kaplan
Drilled By: Langan Engineering

Date started: 12/13/22

Date finished: 12/13/22

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-7-1.5	●			0.1	CL	SANDY CLAY (CL) black, dark brown, soft, moist, slightly plastic, no odor [FILL] pieces of glass, brick, porcelain noted
2					0.2		
3	LB-7-3.0	●			0.1		SANDY CLAY (CL) reddish brown, orange and gray mottling, stiff, moist, plastic, no odor [COLMA]
4					0.0	CL	lighter in color at 4 feet
5	LB-7-5.0	●			0.0		
6							
7							
8							
9							
10							

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGAN

Project No.: 731764201

Figure:

A-6

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE CA-MODIFIED - COPY GDT 1/3/23

UNIFIED SOIL CLASSIFICATION SYSTEM			
Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART		
Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4	76.2 to 4.76
	3" to 3/4" 3/4" to No. 4	76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200	4.76 to 0.075
	No. 4 to No. 10	4.76 to 2.00
	No. 10 to No. 40 No. 40 to No. 200	2.00 to 0.420 0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

-  Unstabilized groundwater level
 Stabilized groundwater level
 PP = Pocket Penetrometer
 TV = Torvane

SAMPLER TYPE

- C** Core barrel
CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

SAMPLE DESIGNATIONS/SYMBOLS

-  Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered
 Classification sample taken with Standard Penetration Test sampler
 Undisturbed sample taken with thin-walled tube
 Disturbed sample
 Sampling attempted with no recovery
 Core sample
 Analytical laboratory sample
 Sample taken with Direct Push or Drive sampler
 Sonic

- PT** Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube
S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.38- or 1.5-inch inside diameter - see report text
ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

LANGAN
 Langan Engineering and
 Environmental Services, Inc.
 135 Main Street, Suite 1500
 San Francisco, CA 94105

T: 415.955.5200 F: 415.955.5201 www.langan.com

Project
772 PACIFIC AVENUE
SAN FRANCISCO
SAN FRANCISCO COUNTY CALIFORNIA

Figure Title
SOIL CLASSIFICATION CHART

Project No.
 731764201
 Date
 12/27/2022
 Drawn By
 AG
 Checked By
 DCK

Figure
A-7

APPENDIX B
LABORATORY ANALYTICAL REPORTS



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2212C27

Report Created for: Langan

135 Main St, Suite 1500
San Francisco, CA 94105

Project Contact: Peter Cusack

Project P.O.:

Project: 731764201; 772 Pacific St.

Project Received: 12/15/2022

Analytical Report reviewed & approved for release on 12/23/2022 by:

Christine Askari
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.





Glossary of Terms & Qualifier Definitions

Client: Langan

WorkOrder: 2212C27

Project: 731764201; 772 Pacific St.

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016.
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting limit is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: Langan

WorkOrder: 2212C27

Project: 731764201; 772 Pacific St.

Analytical Qualifiers

S	Surrogate recovery outside accepted recovery limits.
c2	Surrogate recovery outside of the control limits due to suspected matrix interference.
c9	Internal standard is out of acceptance criteria due to matrix interference therefore values are estimated

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.



Summary of Sample Pressure Report

Lab ID	Canister ID	Lab Prep Vacuum (psia)	Field Initial Vacuum (inHg)	Field Final Vacuum (inHg)	Lab Received Vacuum (psia)	Lab Received Vacuum (inHg)	Lab Final Vacuum / Pressure (psia)
2212C27-001A	6630	N/A	-25	-4	12.09	-5.31	24.26
2212C27-002A	A11725	N/A	-26	-5	13.22	-3.01	26.47
2212C27-003A	A11715	N/A	-28	-5	13.3	-2.85	26.32
2212C27-004A	8410	N/A	-27	-4	13.16	-3.14	26.32



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/20/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Atmospheric Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-3-SV	2212C27-001A	Soil Gas	12/13/2022 00:55	GC51 2022-12-20 15-1	260790

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.09	24.26	JEM

Analytes	Result	RL	DE	Date Analyzed
Oxygen	25	0.40	1	12/20/2022 15:18

LB-4-SV	2212C27-002A	Soil Gas	12/13/2022 00:28	GC51 2022-12-20 16-0	260790

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.22	26.47	JEM

Analytes	Result	RL	DE	Date Analyzed
Oxygen	16	0.40	1	12/20/2022 16:03

LB-5-SV	2212C27-003A	Soil Gas	12/13/2022	GC51 2022-12-20 16-2	260790

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.30	26.65	JEM

Analytes	Result	RL	DE	Date Analyzed
Oxygen	16	0.40	1	12/20/2022 16:25



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/20/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Atmospheric Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-7-SV	2212C27-004A	Soil Gas	12/14/2022 01:40	GC51 2022-12-20 16-4	260790

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.16	26.32	JEM

Analytes	Result	RL	DE	Date Analyzed
Oxygen	18	0.40	1	12/20/2022 16:47



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/20/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-3-SV	2212C27-001A	Soil Gas	12/13/2022 00:55	GC51 2022-12-20 15-1	260797

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.09	24.26	JEM

Analytes	Result	RL	DE	Date Analyzed
Helium	ND	0.050	1	12/20/2022 15:18

LB-4-SV	2212C27-002A	Soil Gas	12/13/2022 00:28	GC51 2022-12-20 16-0	260797

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.22	26.47	JEM

Analytes	Result	RL	DE	Date Analyzed
Helium	ND	0.050	1	12/20/2022 16:03

LB-5-SV	2212C27-003A	Soil Gas	12/13/2022	GC51 2022-12-20 16-2	260797

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.30	26.65	JEM

Analytes	Result	RL	DE	Date Analyzed
Helium	ND	0.050	1	12/20/2022 16:25



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/20/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Helium

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-7-SV	2212C27-004A	Soil Gas	12/14/2022 01:40	GC51 2022-12-20 16-4	260797

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.16	26.32	JEM

Analytes	Result	RL	DE	Date Analyzed
Helium	ND	0.050	1	12/20/2022 16:47



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/20/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-3-SV	2212C27-001A	Soil Gas	12/13/2022 00:55	GC51 2022-12-20 15-1	260784

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.09	24.26	JEM

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	0.033	0.0040	1	12/20/2022 15:18
Methane	ND	0.00020	1	12/20/2022 15:18

LB-4-SV	2212C27-002A	Soil Gas	12/13/2022 00:28	GC51 2022-12-20 16-0	260784

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.22	26.47	JEM

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	0.90	0.0040	1	12/20/2022 16:03
Methane	ND	0.00020	1	12/20/2022 16:03

LB-5-SV	2212C27-003A	Soil Gas	12/13/2022	GC51 2022-12-20 16-2	260784

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.30	26.65	JEM

Analytes	Result	RL	DF	Date Analyzed
Carbon Dioxide	1.1	0.0040	1	12/20/2022 16:25
Methane	ND	0.00020	1	12/20/2022 16:25



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/20/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-7-SV	2212C27-004A	Soil Gas	12/14/2022 01:40	GC51 2022-12-20 16-4	260784

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.16	26.32	JEM

Analytes	Result	RL	DE	Date Analyzed
Carbon Dioxide	0.0044	0.0040	1	12/20/2022 16:47
Methane	ND	0.00020	1	12/20/2022 16:47



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-3-SV	2212C27-001A	Soil Gas	12/13/2022 00:55	GC29 12152216.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.09	24.26	JEM

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2022 04:55
Acrolein	ND	5.8	1	12/22/2022 04:55
Acrylonitrile	ND	1.1	1	12/22/2022 04:55
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2022 04:55
Benzene	3.2	1.6	1	12/22/2022 04:55
Benzyl chloride	ND	2.7	1	12/22/2022 04:55
Bromodichloromethane	ND	1.4	1	12/22/2022 04:55
Bromoform	ND	5.3	1	12/22/2022 04:55
Bromomethane	ND	1.9	1	12/22/2022 04:55
1,3-Butadiene	ND	1.1	1	12/22/2022 04:55
2-Butanone (MEK)	ND	15	1	12/22/2022 04:55
t-Butyl alcohol (TBA)	ND	16	1	12/22/2022 04:55
Carbon Disulfide	ND	1.6	1	12/22/2022 04:55
Carbon Tetrachloride	ND	1.3	1	12/22/2022 04:55
Chlorobenzene	ND	2.4	1	12/22/2022 04:55
Chloroethane	ND	1.3	1	12/22/2022 04:55
Chloroform	ND	2.5	1	12/22/2022 04:55
Chloromethane	2.2	1.0	1	12/22/2022 04:55
Cyclohexane	ND	18	1	12/22/2022 04:55
Dibromochloromethane	ND	4.4	1	12/22/2022 04:55
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2022 04:55
1,2-Dibromoethane (EDB)	ND	0.078	1	12/22/2022 04:55
1,2-Dichlorobenzene	ND	3.0	1	12/22/2022 04:55
1,3-Dichlorobenzene	ND	3.0	1	12/22/2022 04:55
1,4-Dichlorobenzene	ND	3.0	1	12/22/2022 04:55
Dichlorodifluoromethane	ND	2.5	1	12/22/2022 04:55
1,1-Dichloroethane	ND	2.0	1	12/22/2022 04:55
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2022 04:55
1,1-Dichloroethene	ND	2.0	1	12/22/2022 04:55
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2022 04:55
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2022 04:55
1,2-Dichloropropane	ND	2.4	1	12/22/2022 04:55
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2022 04:55

(Cont.)



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-3-SV	2212C27-001A	Soil Gas	12/13/2022 00:55	GC29 12152216.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.09	24.26	JEM

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2022 04:55
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2022 04:55
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2022 04:55
1,4-Dioxane	ND	1.9	1	12/22/2022 04:55
Ethanol	ND	95	1	12/22/2022 04:55
Ethyl acetate	ND	1.9	1	12/22/2022 04:55
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2022 04:55
Ethylbenzene	ND	2.2	1	12/22/2022 04:55
4-Ethyltoluene	ND	2.5	1	12/22/2022 04:55
Freon 113	ND	3.9	1	12/22/2022 04:55
Heptane	ND	21	1	12/22/2022 04:55
Hexachlorobutadiene	ND	2.2	1	12/22/2022 04:55
Hexachloroethane	ND	4.9	1	12/22/2022 04:55
Hexane	ND	18	1	12/22/2022 04:55
2-Hexanone	ND	2.1	1	12/22/2022 04:55
4-Methyl-2-pentanone (MIBK)	ND	2.1	1	12/22/2022 04:55
Methyl-t-butyl ether (MTBE)	ND	1.9	1	12/22/2022 04:55
Methylene chloride	ND	8.8	1	12/22/2022 04:55
Methyl methacrylate	ND	2.1	1	12/22/2022 04:55
Naphthalene	ND	2.7	1	12/22/2022 04:55
Styrene	ND	2.2	1	12/22/2022 04:55
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2022 04:55
1,1,2,2-Tetrachloroethane	ND	0.70	1	12/22/2022 04:55
Tetrachloroethene	ND	3.5	1	12/22/2022 04:55
Tetrahydrofuran	ND	3.0	1	12/22/2022 04:55
Toluene	ND	1.9	1	12/22/2022 04:55
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2022 04:55
1,1,1-Trichloroethane	ND	2.8	1	12/22/2022 04:55
1,1,2-Trichloroethane	ND	2.8	1	12/22/2022 04:55
Trichloroethene	ND	2.8	1	12/22/2022 04:55
1,2,3-Trichloropropane	ND	3.1	1	12/22/2022 04:55
Trichlorofluoromethane	ND	2.9	1	12/22/2022 04:55
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2022 04:55

(Cont.)



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-3-SV	2212C27-001A	Soil Gas	12/13/2022 00:55	GC29 12152216.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.09	24.26	JEM

Analytes	Result	RL	DE	Date Analyzed
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2022 04:55
Vinyl Acetate	ND	18	1	12/22/2022 04:55
Vinyl Chloride	ND	0.26	1	12/22/2022 04:55
m,p-Xylene	ND	4.4	1	12/22/2022 04:55
o-Xylene	ND	2.2	1	12/22/2022 04:55
Xylenes, Total	ND	2.2	1	12/22/2022 04:55
Surrogates	REC (%)	Limits		
1,2-DCA-d4	97	70-130		12/22/2022 04:55
Toluene-d8	99	70-130		12/22/2022 04:55
4-BFB	95	70-130		12/22/2022 04:55



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-4-SV	2212C27-002A	Soil Gas	12/13/2022 00:28	GC29 12152219.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.22	26.47	JEM

Analytes	Result	RL	DF	Date Analyzed
Acetone	110	60	1	12/22/2022 07:04
Acrolein	ND	5.8	1	12/22/2022 07:04
Acrylonitrile	ND	1.1	1	12/22/2022 07:04
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2022 07:04
Benzene	4.0	1.6	1	12/22/2022 07:04
Benzyl chloride	ND	2.7	1	12/22/2022 07:04
Bromodichloromethane	ND	1.4	1	12/22/2022 07:04
Bromoform	ND	5.3	1	12/22/2022 07:04
Bromomethane	ND	1.9	1	12/22/2022 07:04
1,3-Butadiene	ND	1.1	1	12/22/2022 07:04
2-Butanone (MEK)	23	15	1	12/22/2022 07:04
t-Butyl alcohol (TBA)	ND	16	1	12/22/2022 07:04
Carbon Disulfide	ND	1.6	1	12/22/2022 07:04
Carbon Tetrachloride	ND	1.3	1	12/22/2022 07:04
Chlorobenzene	ND	2.4	1	12/22/2022 07:04
Chloroethane	ND	1.3	1	12/22/2022 07:04
Chloroform	24	2.5	1	12/22/2022 07:04
Chloromethane	ND	1.0	1	12/22/2022 07:04
Cyclohexane	ND	18	1	12/22/2022 07:04
Dibromochloromethane	ND	4.4	1	12/22/2022 07:04
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2022 07:04
1,2-Dibromoethane (EDB)	ND	0.078	1	12/22/2022 07:04
1,2-Dichlorobenzene	ND	3.0	1	12/22/2022 07:04
1,3-Dichlorobenzene	ND	3.0	1	12/22/2022 07:04
1,4-Dichlorobenzene	ND	3.0	1	12/22/2022 07:04
Dichlorodifluoromethane	17	2.5	1	12/22/2022 07:04
1,1-Dichloroethane	ND	2.0	1	12/22/2022 07:04
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2022 07:04
1,1-Dichloroethene	ND	2.0	1	12/22/2022 07:04
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2022 07:04
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2022 07:04
1,2-Dichloropropane	ND	2.4	1	12/22/2022 07:04
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2022 07:04

(Cont.)



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-4-SV	2212C27-002A	Soil Gas	12/13/2022 00:28	GC29 12152219.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.22	26.47	JEM

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2022 07:04
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2022 07:04
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2022 07:04
1,4-Dioxane	ND	1.9	1	12/22/2022 07:04
Ethanol	ND	95	1	12/22/2022 07:04
Ethyl acetate	ND	1.9	1	12/22/2022 07:04
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2022 07:04
Ethylbenzene	ND	2.2	1	12/22/2022 07:04
4-Ethyltoluene	ND	2.5	1	12/22/2022 07:04
Freon 113	ND	3.9	1	12/22/2022 07:04
Heptane	ND	21	1	12/22/2022 07:04
Hexachlorobutadiene	ND	2.2	1	12/22/2022 07:04
Hexachloroethane	ND	4.9	1	12/22/2022 07:04
Hexane	ND	18	1	12/22/2022 07:04
2-Hexanone	6.0	2.1	1	12/22/2022 07:04
4-Methyl-2-pentanone (MIBK)	2.3	2.1	1	12/22/2022 07:04
Methyl-t-butyl ether (MTBE)	ND	1.9	1	12/22/2022 07:04
Methylene chloride	ND	8.8	1	12/22/2022 07:04
Methyl methacrylate	ND	2.1	1	12/22/2022 07:04
Naphthalene	ND	2.7	1	12/22/2022 07:04
Styrene	ND	2.2	1	12/22/2022 07:04
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2022 07:04
1,1,2,2-Tetrachloroethane	ND	0.70	1	12/22/2022 07:04
Tetrachloroethene	27	3.5	1	12/22/2022 07:04
Tetrahydrofuran	ND	3.0	1	12/22/2022 07:04
Toluene	3.6	1.9	1	12/22/2022 07:04
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2022 07:04
1,1,1-Trichloroethane	ND	2.8	1	12/22/2022 07:04
1,1,2-Trichloroethane	ND	2.8	1	12/22/2022 07:04
Trichloroethene	ND	2.8	1	12/22/2022 07:04
1,2,3-Trichloropropane	ND	3.1	1	12/22/2022 07:04
Trichlorofluoromethane	31	2.9	1	12/22/2022 07:04
1,2,4-Trimethylbenzene	ND	2.5	1	12/22/2022 07:04

(Cont.)



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-4-SV	2212C27-002A	Soil Gas	12/13/2022 00:28	GC29 12152219.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.22	26.47	JEM

Analytes	Result	RL	DF	Date Analyzed
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2022 07:04
Vinyl Acetate	ND	18	1	12/22/2022 07:04
Vinyl Chloride	ND	0.26	1	12/22/2022 07:04
m,p-Xylene	ND	4.4	1	12/22/2022 07:04
o-Xylene	ND	2.2	1	12/22/2022 07:04
Xylenes, Total	ND	2.2	1	12/22/2022 07:04
Surrogates	REC (%)	Limits		
1,2-DCA-d4	88	70-130		12/22/2022 07:04
Toluene-d8	94	70-130		12/22/2022 07:04
4-BFB	92	70-130		12/22/2022 07:04



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-5-SV	2212C27-003A	Soil Gas	12/13/2022	GC29 12152221.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.30	26.65	JEM

Analytes	Result	RL	DF	Date Analyzed
Acetone	110	60	1	12/22/2022 08:30
Acrolein	ND	5.8	1	12/22/2022 08:30
Acrylonitrile	ND	1.1	1	12/22/2022 08:30
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2022 08:30
Benzene	2.1	1.6	1	12/22/2022 08:30
Benzyl chloride	ND	2.7	1	12/22/2022 08:30
Bromodichloromethane	ND	1.4	1	12/22/2022 08:30
Bromoform	ND	5.3	1	12/22/2022 08:30
Bromomethane	ND	1.9	1	12/22/2022 08:30
1,3-Butadiene	ND	1.1	1	12/22/2022 08:30
2-Butanone (MEK)	34	15	1	12/22/2022 08:30
t-Butyl alcohol (TBA)	ND	16	1	12/22/2022 08:30
Carbon Disulfide	ND	1.6	1	12/22/2022 08:30
Carbon Tetrachloride	ND	1.3	1	12/22/2022 08:30
Chlorobenzene	ND	2.4	1	12/22/2022 08:30
Chloroethane	ND	1.3	1	12/22/2022 08:30
Chloroform	13	2.5	1	12/22/2022 08:30
Chloromethane	ND	1.0	1	12/22/2022 08:30
Cyclohexane	ND	18	1	12/22/2022 08:30
Dibromochloromethane	ND	4.4	1	12/22/2022 08:30
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2022 08:30
1,2-Dibromoethane (EDB)	ND	0.078	1	12/22/2022 08:30
1,2-Dichlorobenzene	ND	3.0	1	12/22/2022 08:30
1,3-Dichlorobenzene	ND	3.0	1	12/22/2022 08:30
1,4-Dichlorobenzene	ND	3.0	1	12/22/2022 08:30
Dichlorodifluoromethane	ND	2.5	1	12/22/2022 08:30
1,1-Dichloroethane	ND	2.0	1	12/22/2022 08:30
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2022 08:30
1,1-Dichloroethene	ND	2.0	1	12/22/2022 08:30
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2022 08:30
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2022 08:30
1,2-Dichloropropane	ND	2.4	1	12/22/2022 08:30
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2022 08:30

(Cont.)



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-5-SV	2212C27-003A	Soil Gas	12/13/2022	GC29 12152221.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.30	26.65	JEM

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2022 08:30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2022 08:30
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2022 08:30
1,4-Dioxane	ND	1.9	1	12/22/2022 08:30
Ethanol	ND	95	1	12/22/2022 08:30
Ethyl acetate	ND	1.9	1	12/22/2022 08:30
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2022 08:30
Ethylbenzene	ND	2.2	1	12/22/2022 08:30
4-Ethyltoluene	ND	2.5	1	12/22/2022 08:30
Freon 113	ND	3.9	1	12/22/2022 08:30
Heptane	ND	21	1	12/22/2022 08:30
Hexachlorobutadiene	ND	2.2	1	12/22/2022 08:30
Hexachloroethane	ND	4.9	1	12/22/2022 08:30
Hexane	ND	18	1	12/22/2022 08:30
2-Hexanone	6.4	2.1	1	12/22/2022 08:30
4-Methyl-2-pentanone (MIBK)	6.3	2.1	1	12/22/2022 08:30
Methyl-t-butyl ether (MTBE)	ND	1.9	1	12/22/2022 08:30
Methylene chloride	ND	8.8	1	12/22/2022 08:30
Methyl methacrylate	ND	2.1	1	12/22/2022 08:30
Naphthalene	ND	2.7	1	12/22/2022 08:30
Styrene	ND	2.2	1	12/22/2022 08:30
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2022 08:30
1,1,2,2-Tetrachloroethane	ND	0.70	1	12/22/2022 08:30
Tetrachloroethene	5.0	3.5	1	12/22/2022 08:30
Tetrahydrofuran	ND	3.0	1	12/22/2022 08:30
Toluene	2.6	1.9	1	12/22/2022 08:30
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2022 08:30
1,1,1-Trichloroethane	ND	2.8	1	12/22/2022 08:30
1,1,2-Trichloroethane	ND	2.8	1	12/22/2022 08:30
Trichloroethene	ND	2.8	1	12/22/2022 08:30
1,2,3-Trichloropropane	ND	3.1	1	12/22/2022 08:30
Trichlorofluoromethane	3.4	2.9	1	12/22/2022 08:30
1,2,4-Trimethylbenzene	3.7	2.5	1	12/22/2022 08:30

(Cont.)



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-5-SV	2212C27-003A	Soil Gas	12/13/2022	GC29 12152221.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.30	26.65	JEM

Analytes	Result	RL	DE	Date Analyzed
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2022 08:30
Vinyl Acetate	ND	18	1	12/22/2022 08:30
Vinyl Chloride	ND	0.26	1	12/22/2022 08:30
m,p-Xylene	ND	4.4	1	12/22/2022 08:30
o-Xylene	ND	2.2	1	12/22/2022 08:30
Xylenes, Total	ND	2.2	1	12/22/2022 08:30
Surrogates	REC (%)	Limits		
1,2-DCA-d4	81	70-130		12/22/2022 08:30
Toluene-d8	94	70-130		12/22/2022 08:30
4-BFB	90	70-130		12/22/2022 08:30



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-7-SV	2212C27-004A	Soil Gas	12/14/2022 01:40	GC29 12152217.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.16	26.32	JEM

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	60	1	12/22/2022 05:38
Acrolein	ND	5.8	1	12/22/2022 05:38
Acrylonitrile	ND	1.1	1	12/22/2022 05:38
tert-Amyl methyl ether (TAME)	ND	2.1	1	12/22/2022 05:38
Benzene	4.5	1.6	1	12/22/2022 05:38
Benzyl chloride	ND	2.7	1	12/22/2022 05:38
Bromodichloromethane	ND	1.4	1	12/22/2022 05:38
Bromoform	ND	5.3	1	12/22/2022 05:38
Bromomethane	ND	1.9	1	12/22/2022 05:38
1,3-Butadiene	ND	1.1	1	12/22/2022 05:38
2-Butanone (MEK)	ND	15	1	12/22/2022 05:38
t-Butyl alcohol (TBA)	ND	16	1	12/22/2022 05:38
Carbon Disulfide	ND	1.6	1	12/22/2022 05:38
Carbon Tetrachloride	ND	1.3	1	12/22/2022 05:38
Chlorobenzene	ND	2.4	1	12/22/2022 05:38
Chloroethane	ND	1.3	1	12/22/2022 05:38
Chloroform	ND	2.5	1	12/22/2022 05:38
Chloromethane	ND	1.0	1	12/22/2022 05:38
Cyclohexane	ND	18	1	12/22/2022 05:38
Dibromochloromethane	ND	4.4	1	12/22/2022 05:38
1,2-Dibromo-3-chloropropane	ND	0.12	1	12/22/2022 05:38
1,2-Dibromoethane (EDB)	ND	0.078	1	12/22/2022 05:38
1,2-Dichlorobenzene	ND	3.0	1	12/22/2022 05:38
1,3-Dichlorobenzene	ND	3.0	1	12/22/2022 05:38
1,4-Dichlorobenzene	ND	3.0	1	12/22/2022 05:38
Dichlorodifluoromethane	ND	2.5	1	12/22/2022 05:38
1,1-Dichloroethane	ND	2.0	1	12/22/2022 05:38
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	12/22/2022 05:38
1,1-Dichloroethene	ND	2.0	1	12/22/2022 05:38
cis-1,2-Dichloroethene	ND	2.0	1	12/22/2022 05:38
trans-1,2-Dichloroethene	ND	2.0	1	12/22/2022 05:38
1,2-Dichloropropane	ND	2.4	1	12/22/2022 05:38
cis-1,3-Dichloropropene	ND	2.3	1	12/22/2022 05:38

(Cont.)



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-7-SV	2212C27-004A	Soil Gas	12/14/2022 01:40	GC29 12152217.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.16	26.32	JEM

Analytes	Result	RL	DF	Date Analyzed
trans-1,3-Dichloropropene	ND	2.3	1	12/22/2022 05:38
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	12/22/2022 05:38
Diisopropyl ether (DIPE)	ND	2.1	1	12/22/2022 05:38
1,4-Dioxane	ND	1.9	1	12/22/2022 05:38
Ethanol	ND	95	1	12/22/2022 05:38
Ethyl acetate	ND	1.9	1	12/22/2022 05:38
Ethyl tert-butyl ether (ETBE)	ND	2.1	1	12/22/2022 05:38
Ethylbenzene	ND	2.2	1	12/22/2022 05:38
4-Ethyltoluene	ND	2.5	1	12/22/2022 05:38
Freon 113	ND	3.9	1	12/22/2022 05:38
Heptane	ND	21	1	12/22/2022 05:38
Hexachlorobutadiene	ND	2.2	1	12/22/2022 05:38
Hexachloroethane	ND	4.9	1	12/22/2022 05:38
Hexane	ND	18	1	12/22/2022 05:38
2-Hexanone	7.5	2.1	1	12/22/2022 05:38
4-Methyl-2-pentanone (MIBK)	3.1	2.1	1	12/22/2022 05:38
Methyl-t-butyl ether (MTBE)	ND	1.9	1	12/22/2022 05:38
Methylene chloride	ND	8.8	1	12/22/2022 05:38
Methyl methacrylate	ND	2.1	1	12/22/2022 05:38
Naphthalene	39	2.7	1	12/22/2022 05:38
Styrene	2.8	2.2	1	12/22/2022 05:38
1,1,1,2-Tetrachloroethane	ND	3.5	1	12/22/2022 05:38
1,1,2,2-Tetrachloroethane	ND	0.70	1	12/22/2022 05:38
Tetrachloroethene	10	3.5	1	12/22/2022 05:38
Tetrahydrofuran	ND	3.0	1	12/22/2022 05:38
Toluene	10	1.9	1	12/22/2022 05:38
1,2,4-Trichlorobenzene	ND	3.8	1	12/22/2022 05:38
1,1,1-Trichloroethane	ND	2.8	1	12/22/2022 05:38
1,1,2-Trichloroethane	ND	2.8	1	12/22/2022 05:38
Trichloroethene	ND	2.8	1	12/22/2022 05:38
1,2,3-Trichloropropane	ND	3.1	1	12/22/2022 05:38
Trichlorofluoromethane	ND	2.9	1	12/22/2022 05:38
1,2,4-Trimethylbenzene	5.5	2.5	1	12/22/2022 05:38

(Cont.)



Analytical Report

Client: Langan
Date Received: 12/15/2022 15:50
Date Prepared: 12/22/2022
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
LB-7-SV	2212C27-004A	Soil Gas	12/14/2022 01:40	GC29 12152217.D	260782

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.16	26.32	JEM

Analytes	Result	RL	DF	Date Analyzed
1,3,5-Trimethylbenzene	ND	2.5	1	12/22/2022 05:38
Vinyl Acetate	ND	18	1	12/22/2022 05:38
Vinyl Chloride	ND	0.26	1	12/22/2022 05:38
m,p-Xylene	7.0	4.4	1	12/22/2022 05:38
o-Xylene	3.1	2.2	1	12/22/2022 05:38
Xylenes, Total	10	2.2	1	12/22/2022 05:38

Surrogates	REC (%)	Qualifiers	Limits	Date Analyzed
1,2-DCA-d4	135	S	70-130	12/22/2022 05:38
Toluene-d8	129		70-130	12/22/2022 05:38
4-BFB	73		70-130	12/22/2022 05:38

Analytical Comments: c2,c9



Quality Control Report

Client: Langan
Date Prepared: 12/20/2022
Date Analyzed: 12/20/2022
Instrument: GC51
Matrix: SoilGas
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
BatchID: 260790
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS/LCSD-260790

QC Summary Report for ASTM D1946-90

Analyte	MB Result	MDL	RL			
Oxygen	ND	0.027	0.40	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Oxygen	4.5	4.5	4.2	107	108	70-130	0.633	20



Quality Control Report

Client: Langan
Date Prepared: 12/20/2022 - 12/21/2022
Date Analyzed: 12/20/2022 - 12/21/2022
Instrument: GC51
Matrix: Soilgas
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
BatchID: 260797
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: %
Sample ID: MB/LCS/LCSD-260797

QC Summary Report for ASTM D1946-90

Analyte	MB Result	MDL	RL			
Helium	ND	0.050	0.050	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Helium	0.21	0.24	0.20	104	122	60-140	16.1	20



Quality Control Report

Client:	Langan	WorkOrder:	2212C27
Date Prepared:	12/20/2022	BatchID:	260784
Date Analyzed:	12/20/2022	Extraction Method:	ASTM D 1946-90
Instrument:	GC51	Analytical Method:	ASTM D 1946-90
Matrix:	SoilGas	Unit:	%
Project:	731764201; 772 Pacific St.	Sample ID:	MB/LCS/LCSD-260784

QC Summary Report for ASTM D1946-90

Analyte	MB Result	MDL	RL			
Carbon Dioxide	ND	0.00097	0.0040	-	-	-
Methane	ND	0.000031	0.00020	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Carbon Dioxide	0.020	0.021	0.020	101	103	70-130	1.29	20
Methane	0.023	0.023	0.020	113	115	70-130	1.42	20



Quality Control Report

Client: Langan
Date Prepared: 12/21/2022 - 12/22/2022
Date Analyzed: 12/21/2022 - 12/22/2022
Instrument: GC29
Matrix: SoilGas
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
BatchID: 260782
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS/LCSD-260782

QC Summary Report for TO15

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	4.3	60	-	-	-
Acrolein	ND	1.1	5.8	-	-	-
Acrylonitrile	ND	0.66	1.1	-	-	-
tert-Amyl methyl ether (TAME)	ND	1.3	2.1	-	-	-
Benzene	ND	0.79	1.6	-	-	-
Benzyl chloride	ND	1.7	2.7	-	-	-
Bromodichloromethane	ND	0.13	1.4	-	-	-
Bromoform	ND	1.1	5.3	-	-	-
Bromomethane	ND	0.41	1.9	-	-	-
1,3-Butadiene	ND	0.98	1.1	-	-	-
2-Butanone (MEK)	ND	2.0	15	-	-	-
t-Butyl alcohol (TBA)	ND	1.9	16	-	-	-
Carbon Disulfide	ND	1.1	1.6	-	-	-
Carbon Tetrachloride	ND	0.19	1.3	-	-	-
Chlorobenzene	ND	0.59	2.4	-	-	-
Chloroethane	ND	0.35	1.3	-	-	-
Chloroform	ND	0.58	2.5	-	-	-
Chloromethane	ND	0.52	1.0	-	-	-
Cyclohexane	ND	1.6	18	-	-	-
Dibromochloromethane	ND	1.1	4.4	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.074	0.12	-	-	-
1,2-Dibromoethane (EDB)	ND	0.025	0.078	-	-	-
1,2-Dichlorobenzene	ND	0.95	3.0	-	-	-
1,3-Dichlorobenzene	ND	0.94	3.0	-	-	-
1,4-Dichlorobenzene	ND	0.97	3.0	-	-	-
Dichlorodifluoromethane	ND	0.56	2.5	-	-	-
1,1-Dichloroethane	ND	0.50	2.0	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.58	2.0	-	-	-
1,1-Dichloroethene	ND	0.40	2.0	-	-	-
cis-1,2-Dichloroethene	ND	0.43	2.0	-	-	-
trans-1,2-Dichloroethene	ND	0.45	2.0	-	-	-
1,2-Dichloropropane	ND	0.59	2.4	-	-	-
cis-1,3-Dichloropropene	ND	0.71	2.3	-	-	-
trans-1,3-Dichloropropene	ND	0.86	2.3	-	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.8	3.6	-	-	-
Diisopropyl ether (DIPE)	ND	0.55	2.1	-	-	-
1,4-Dioxane	ND	0.71	1.9	-	-	-
Ethanol	ND	3.8	95	-	-	-

(Cont.)



Quality Control Report

Client: Langan
Date Prepared: 12/21/2022 - 12/22/2022
Date Analyzed: 12/21/2022 - 12/22/2022
Instrument: GC29
Matrix: SoilGas
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
BatchID: 260782
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS/LCSD-260782

QC Summary Report for TO15

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Ethyl acetate	ND	0.63	1.9	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.68	2.1	-	-	-
Ethylbenzene	ND	0.51	2.2	-	-	-
4-Ethyltoluene	ND	0.61	2.5	-	-	-
Freon 113	ND	1.0	3.9	-	-	-
Heptane	ND	2.4	21	-	-	-
Hexachlorobutadiene	ND	0.38	2.2	-	-	-
Hexachloroethane	ND	2.7	4.9	-	-	-
Hexane	ND	2.2	18	-	-	-
2-Hexanone	ND	1.6	2.1	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.94	2.1	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.43	1.9	-	-	-
Methylene chloride	ND	0.82	8.8	-	-	-
Methyl methacrylate	ND	0.65	2.1	-	-	-
Naphthalene	ND	1.9	2.7	-	-	-
Styrene	ND	0.62	2.2	-	-	-
1,1,1,2-Tetrachloroethane	ND	1.2	3.5	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.10	0.70	-	-	-
Tetrachloroethene	ND	1.1	3.5	-	-	-
Tetrahydrofuran	ND	0.82	3.0	-	-	-
Toluene	ND	0.89	1.9	-	-	-
1,2,4-Trichlorobenzene	ND	2.7	3.8	-	-	-
1,1,1-Trichloroethane	ND	0.71	2.8	-	-	-
1,1,2-Trichloroethane	ND	0.85	2.8	-	-	-
Trichloroethene	ND	0.69	2.8	-	-	-
1,2,3-Trichloropropane	ND	0.89	3.1	-	-	-
Trichlorofluoromethane	ND	0.78	2.9	-	-	-
1,2,4-Trimethylbenzene	ND	1.2	2.5	-	-	-
1,3,5-Trimethylbenzene	ND	0.73	2.5	-	-	-
Vinyl Acetate	ND	1.1	18	-	-	-
Vinyl Chloride	ND	0.14	0.26	-	-	-
m,p-Xylene	ND	1.1	4.4	-	-	-
o-Xylene	ND	0.39	2.2	-	-	-

(Cont.)



Quality Control Report

Client: Langan
Date Prepared: 12/21/2022 - 12/22/2022
Date Analyzed: 12/21/2022 - 12/22/2022
Instrument: GC29
Matrix: SoilGas
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
BatchID: 260782
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS/LCSD-260782

QC Summary Report for TO15

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
1,2-DCA-d4	910			1000	91	70-130
Toluene-d8	980			1000	98	70-130
4-BFB	940			1000	94	70-130



Quality Control Report

Client: Langan
Date Prepared: 12/21/2022 - 12/22/2022
Date Analyzed: 12/21/2022 - 12/22/2022
Instrument: GC29
Matrix: SoilGas
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
BatchID: 260782
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS/LCSD-260782

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	13	12	12	112	104	60-140	7.45	25
Acrolein	11	11	11.6	98	95	60-140	2.58	25
Acrylonitrile	10	11	11	95	99	60-140	3.95	25
tert-Amyl methyl ether (TAME)	17	18	21	81	85	60-140	3.79	25
Benzene	15	14	16	95	89	60-140	5.75	25
Benzyl chloride	25	22	26.6	93	82	60-140	12.7	25
Bromodichloromethane	36	35	35	104	100	60-140	3.99	25
Bromoform	61	57	52.6	116	109	60-140	6.52	25
Bromomethane	22	23	19.6	114	119	60-140	4.47	25
1,3-Butadiene	6.9	9.3	11	63	85	60-140	29.5,F2	25
2-Butanone (MEK)	16	15	15	107	101	60-140	5.90	25
t-Butyl alcohol (TBA)	14	14	15.6	90	89	60-140	1.30	25
Carbon Disulfide	18	16	16	110	103	60-140	6.58	25
Carbon Tetrachloride	32	31	32	100	95	60-140	4.58	25
Chlorobenzene	25	24	23.6	107	100	60-140	6.36	25
Chloroethane	13	14	13.6	98	106	60-140	7.63	25
Chloroform	26	25	24.6	105	101	60-140	2.95	25
Chloromethane	11	12	10.6	108	111	60-140	3.21	25
Cyclohexane	17	16	17.6	94	89	60-140	5.79	25
Dibromochloromethane	47	46	43.6	108	105	60-140	3.47	25
1,2-Dibromo-3-chloropropane	61	58	49	125	118	60-140	5.62	25
1,2-Dibromoethane (EDB)	45	43	39	117	111	60-140	4.52	25
1,2-Dichlorobenzene	35	32	30.6	115	106	60-140	8.23	25
1,3-Dichlorobenzene	35	32	30.6	113	105	60-140	7.65	25
1,4-Dichlorobenzene	35	32	30.6	113	106	60-140	6.59	25
Dichlorodifluoromethane	27	25	25	107	100	60-140	6.81	25
1,1-Dichloroethane	20	19	20.6	99	94	60-140	4.88	25
1,2-Dichloroethane (1,2-DCA)	20	20	20.6	97	95	60-140	2.36	25
1,1-Dichloroethene	23	22	20	113	108	60-140	4.82	25
cis-1,2-Dichloroethene	20	19	20	102	97	60-140	4.97	25
trans-1,2-Dichloroethene	20	19	20	102	97	60-140	5.39	25
1,2-Dichloropropane	25	23	23.6	104	100	60-140	4.37	25
cis-1,3-Dichloropropene	24	23	23	104	98	60-140	6.20	25
trans-1,3-Dichloropropene	24	24	23	104	103	60-140	0.968	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	37	39	35.6	104	109	60-140	3.98	25
Diisopropyl ether (DIPE)	18	19	21	86	93	60-140	6.89	25
1,4-Dioxane	19	18	18.6	103	99	60-140	3.76	25
Ethanol	11	11	9.6	113	114	60-140	0.601	25

(Cont.)



Quality Control Report

Client: Langan
Date Prepared: 12/21/2022 - 12/22/2022
Date Analyzed: 12/21/2022 - 12/22/2022
Instrument: GC29
Matrix: SoilGas
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
BatchID: 260782
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS/LCSD-260782

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ethyl acetate	20	19	18.6	105	103	60-140	2.36	25
Ethyl tert-butyl ether (ETBE)	17	18	21	81	86	60-140	6.07	25
Ethylbenzene	24	22	22	110	98	60-140	11.0	25
4-Ethyltoluene	28	26	25	113	103	60-140	8.53	25
Freon 113	40	39	39	103	99	60-140	3.82	25
Heptane	20	19	21	96	89	60-140	7.91	25
Hexachlorobutadiene	75	62	54	138	114	60-140	18.7	25
Hexachloroethane	37	38	49.2	75	78	60-140	2.95	25
Hexane	18	17	18	99	94	60-140	4.66	25
2-Hexanone	22	22	21	103	103	60-140	0.346	25
4-Methyl-2-pentanone (MIBK)	20	20	21	97	97	60-140	0.545	25
Methyl-t-butyl ether (MTBE)	17	16	18.6	94	88	60-140	5.76	25
Methylene chloride	18	17	17.6	104	99	60-140	5.01	25
Methyl methacrylate	20	19	20.8	96	91	60-140	5.62	25
Naphthalene	35	28	26.5	131	107	60-140	20.1	25
Styrene	23	21	21.6	108	99	60-140	8.85	25
1,1,1,2-Tetrachloroethane	35	37	35	100	106	60-140	5.47	25
1,1,2,2-Tetrachloroethane	37	35	35	106	99	60-140	6.91	25
Tetrachloroethene	47	45	34.4	136	130	60-140	4.35	25
Tetrahydrofuran	14	13	15	95	87	60-140	8.81	25
Toluene	20	18	19	108	96	60-140	11.6	25
1,2,4-Trichlorobenzene	51	43	37.6	136	113	60-140	18.6	25
1,1,1-Trichloroethane	26	25	27.6	96	90	60-140	5.74	25
1,1,2-Trichloroethane	34	33	27.6	123	118	60-140	4.51	25
Trichloroethene	31	29	27.6	111	107	60-140	3.97	25
1,2,3-Trichloropropane	28	29	30.64	91	95	60-140	4.02	25
Trichlorofluoromethane	31	31	28.6	108	110	60-140	1.92	25
1,2,4-Trimethylbenzene	29	25	25	116	100	60-140	14.4	25
1,3,5-Trimethylbenzene	27	24	25	108	97	60-140	10.6	25
Vinyl Acetate	15	16	18	82	90	60-140	9.67	25
Vinyl Chloride	9.4	11	13	72	84	60-140	15.8	25
m,p-Xylene	54	46	44	122	104	60-140	15.7	25
o-Xylene	25	22	22	114	100	60-140	13.7	25

(Cont.)



Quality Control Report

Client: Langan
Date Prepared: 12/21/2022 - 12/22/2022
Date Analyzed: 12/21/2022 - 12/22/2022
Instrument: GC29
Matrix: SoilGas
Project: 731764201; 772 Pacific St.

WorkOrder: 2212C27
BatchID: 260782
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS/LCSD-260782

QC Summary Report for TO15

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
1,2-DCA-d4	900	900	1000	90	90	70-130	0.482	25
Toluene-d8	950	960	1000	95	96	70-130	1.64	25
4-BFB	940	930	1000	94	93	70-130	0.353	25

McCampbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

☐ WaterTrax ☐ CLIP ☐ EDF

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2212C27

ClientCode: TWRF

☒ EQuIS ☐ Dry-Weight ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

Report to:

Peter Cusack
Langan
135 Main St, Suite 1500
San Francisco, CA 94105
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party:
PO:
Project: 731764201; 772 Pacific St.

Bill to:

Accounts Payable
Langan
135 Main St, Suite 1500
San Francisco, CA 94105
Langan_InvoiceCapture@concursolutio

Requested TAT: 5 days;

Date Received: 12/15/2022

Date Logged: 12/16/2022

Lab ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2212C27-001	LB-3-SV	Soil Gas	12/13/2022 00:55	☐	A	A	A	A								
2212C27-002	LB-4-SV	Soil Gas	12/13/2022 00:28	☐	A	A	A	A								
2212C27-003	LB-5-SV	Soil Gas	12/13/2022 00:00	☐	A	A	A	A								
2212C27-004	LB-7-SV	Soil Gas	12/14/2022 01:40	☐	A	A	A	A								

Test Legend:

1	ATMOSPHERICGAS_SG(%)	2	HELIUM_LC_SOILGAS(%)	3	LG_SUMMA_SOILGAS(%)	4	TO15_Scan-SIM_SOIL(UG/M3)
5		6		7		8	
9		10		11		12	

Prepared by: Cassandra Gallegos

The following SampleIDs: 001A, 002A, 003A, 004A contain testgroup TO15He_O2_CO2_Ch4_SG.

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: LANGAN
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Project: 731764201; 772 Pacific St.

Comments:

Work Order: 2212C27

QC Level: LEVEL 2

Date Logged: 12/16/2022

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☒ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	LB-3-SV	Soil Gas	TO15 w/ Helium, O2, CO2 and Methane	1	1L Summa	☐	☐	☐	12/13/2022 0:55	5 days	12/22/2022		☐	☐
002A	LB-4-SV	Soil Gas	TO15 w/ Helium, O2, CO2 and Methane	1	1L Summa	☐	☐	☐	12/13/2022 0:28	5 days	12/22/2022		☐	☐
003A	LB-5-SV	Soil Gas	TO15 w/ Helium, O2, CO2 and Methane	1	1L Summa	☐	☐	☐	12/13/2022	5 days	12/22/2022		☐	☐
004A	LB-7-SV	Soil Gas	TO15 w/ Helium, O2, CO2 and Methane	1	1L Summa	☐	☐	☐	12/14/2022 1:40	5 days	12/22/2022		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

CHAIN OF CUSTODY RECORD

Page 1 of 1

☒	135 Main Street, Suite 1500, San Francisco, CA 94105
☐	501 14th Street, Third Floor, Oakland, CA 94612
☐	3320 Data Drive, Suite 350, Rancho Cordova, CA 95670-7982
☐	1 Almaden Boulevard, Suite 590, San Jose, CA 95113

772 Pacific St.

734764201

Peter Cusack

Dana Cohen-Kaplan

hera als m

Analysis Requested

Turnaround Time

Standard

*Got Initial/Final pressure off container tags. 12/16/22 cc

Pink Copy - Field

COC Number:



Sample Receipt Checklist

Client Name: Langan
Project: 731764201; 772 Pacific St.

Date and Time Received: 12/15/2022 15:50
Date Logged: 12/16/2022
Received by: Cassandra Gallegos
Logged by: Cassandra Gallegos

WorkOrder No: 2212C27 Matrix: Soil Gas
Carrier: Antonio Mason (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☒	

Sample/Temp Blank temperature	Temp:		NA ☒
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐	No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒	No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐	No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐	No ☐	NA ☒

Comments:



Langan
555 Montgomery Street, Suite 1300
San Francisco, California 94111
Tel: 415-955-9040
RE: 772 Pacific Street

Work Order No.: 2212180 Rev: 2

Dear Peter Cusack:

Torrent Laboratory, Inc. received 16 sample(s) on December 15, 2022 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti L. Sandrock", is written over a light blue horizontal line.

Patti L Sandrock
QA Officer

December 23, 2022

Date



Date: 12/23/2022

Client: Langan

Project: 772 Pacific Street

Work Order: 2212180

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

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Asbestos and acid soluble sulfide were subcontracted to EMSL and McCampbell Analytical respectively. Sub-contract Asbestos data follows as an attachment to the Torrent generated report. Sulfide data will follow under a separate cover.

Analytical Comments for method 6020A, 2212180-001A MS/MSD, QC Preparation Batch ID 1147472, Note: The % recoveries for Cadmium and Vanadium are outside of laboratory control limits but % RPDs are within limits. The associated LCS/LCSD is within both % Recovery and RPD limits. No corrective action required.

The spikes in the MS/MSD for Barium, Copper, Lead and Zinc are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.

REVISIONS

Report revised to include sub-contracted Acid Soluble Sulfide data which appears as an attachment to the Torrent generated report

Rev. 1 (1/5/23)

Report revised to include STLC and TCLP data.

STLC

Note: Extraction of 50 g sample / 500g 0.2M Sodium Citrate Solution was performed according to wet extraction procedure (WET) which was rotated in a rotary shaker for 48 hours (+/- 4 hours).

Date Prepared: 12/28/22 at 15:30 to 12/30/22 at 11:30 AM.

TCLP

Note: Extraction of 100 g sample/2000 g TCLP Fluid #1 was performed according to Toxicity Characteristic Leaching Procedure (SW-846 1311TCLP) which was rotated in a rotary shaker @ 32 RPM for 18 hours (+/- 2 hours).

Date Prepared: 12/28/22 at 15:30 to 12/29/22 at 09:00

Rev. 2 (1/9/2023)



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-2-1.5

2212180-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.702	mg/L
Lead (STLC)	SW6010B-STLC	1	0.050	0.20	0.987	mg/L
Antimony	SW6020A	1	0.12	1.0	2.40	mg/Kg
Arsenic	SW6020A	1	0.21	1.0	7.98	mg/Kg
Barium	SW6020A	1	0.84	1.0	195	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.224	mg/Kg
Cadmium	SW6020A	1	0.084	1.0	0.312	mg/Kg
Chromium	SW6020A	1	0.097	1.0	64.1	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	3.31	mg/Kg
Copper	SW6020A	1	0.17	2.5	104	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.644	mg/Kg
Nickel	SW6020A	1	1.2	5.0	23.3	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.56	mg/Kg
Silver	SW6020A	1	0.098	0.50	0.696	mg/Kg
Vanadium	SW6020A	1	0.28	25	35.7	mg/Kg
Zinc	SW6020A	1	0.70	2.5	178	mg/Kg
Lead	SW6020A	2	0.11	2.0	598	mg/Kg
Mercury	SW7471B	5	0.42	2.5	7.6	mg/Kg
TPH as Diesel	SW8015B	1	0.66	2.0	6.95	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	43.2	mg/Kg
4,4'-DDE	SW8081B	1	0.61	2.0	0.679	ug/Kg
Naphthalene	SW8270C	1	10.6	144	29.9	ug/Kg
2-Methylnaphthalene	SW8270C	1	10.4	144	13.0	ug/Kg
Acenaphthene	SW8270C	1	10.7	144	10.9	ug/Kg
Dibenzofuran	SW8270C	1	11.2	144	13.0	ug/Kg
Fluorene	SW8270C	1	10.3	144	11.0	ug/Kg
Phenanthrene	SW8270C	1	9.32	144	78.0	ug/Kg
Anthracene	SW8270C	1	8.91	144	16.8	ug/Kg
Carbazole	SW8270C	1	10.7	144	11.9	ug/Kg
Fluoranthene	SW8270C	1	10.0	144	65.4	ug/Kg
Pyrene	SW8270C	1	12.0	144	76.3	ug/Kg
Benzo(a)anthracene	SW8270C	1	9.80	144	31.1	ug/Kg
Chrysene	SW8270C	1	15.2	144	41.9	ug/Kg
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	75.5	ug/Kg
Benzo(b)fluorathene	SW8270C	1	12.0	144	36.2	ug/Kg
benzo(k)fluorathene	SW8270C	1	8.16	144	10.4	ug/Kg
Benzo(a)pyrene	SW8270C	1	9.80	144	18.3	ug/Kg
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	15.3	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	5.79	SU



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-2-3.0

2212180-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	1.71	mg/L
Lead (STLC)	SW6010B-STLC	1	0.050	0.20	1.86	mg/L
Antimony	SW6020A	1	0.12	1.0	0.806	mg/Kg
Arsenic	SW6020A	1	0.21	1.0	8.44	mg/Kg
Barium	SW6020A	1	0.84	1.0	124	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.352	mg/Kg
Cadmium	SW6020A	1	0.084	1.0	0.772	mg/Kg
Chromium	SW6020A	1	0.097	1.0	57.3	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	17.0	mg/Kg
Copper	SW6020A	1	0.17	2.5	44.2	mg/Kg
Lead	SW6020A	1	0.054	1.0	113	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.493	mg/Kg
Nickel	SW6020A	1	1.2	5.0	34.6	mg/Kg
Selenium	SW6020A	1	0.035	1.0	2.23	mg/Kg
Silver	SW6020A	1	0.098	0.50	0.587	mg/Kg
Vanadium	SW6020A	1	0.28	25	41.9	mg/Kg
Zinc	SW6020A	2	1.4	5.0	516	mg/Kg
Mercury	SW7471B	2	0.17	1.0	3.9	mg/Kg
TPH as Diesel	SW8015B	1	0.66	2.0	3.77	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	16.6	mg/Kg
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	14.1	ug/Kg
Pyrene	SW8270C	1	12.0	144	17.7	ug/Kg
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	30.2	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	6.72	SU

LB-2-5.0

2212180-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.878	mg/L
Arsenic	SW6020A	1	0.21	1.0	3.18	mg/Kg
Barium	SW6020A	1	0.84	1.0	76.7	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.275	mg/Kg
Chromium	SW6020A	1	0.097	1.0	97.0	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	8.66	mg/Kg
Copper	SW6020A	1	0.17	2.5	10.9	mg/Kg
Lead	SW6020A	1	0.054	1.0	4.16	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.196	mg/Kg
Nickel	SW6020A	1	1.2	5.0	45.6	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.91	mg/Kg
Silver	SW6020A	1	0.098	0.50	0.182	mg/Kg
Vanadium	SW6020A	1	0.28	25	63.8	mg/Kg
Zinc	SW6020A	1	0.70	2.5	143	mg/Kg
Mercury	SW7471B	1	0.083	0.50	0.14	mg/Kg
TPH as Diesel	SW8015B	1	0.66	2.0	2.17	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	9.64	mg/Kg
pH in Soil	SW9045D	1	0.10	2.00	6.63	SU



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-3-1.5

2212180-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	1.51	mg/L
Antimony	SW6020A	1	0.12	1.0	0.149	mg/Kg
Arsenic	SW6020A	1	0.21	1.0	3.31	mg/Kg
Barium	SW6020A	1	0.84	1.0	73.1	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.349	mg/Kg
Cadmium	SW6020A	1	0.084	1.0	0.114	mg/Kg
Chromium	SW6020A	1	0.097	1.0	69.4	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	11.6	mg/Kg
Copper	SW6020A	1	0.17	2.5	13.7	mg/Kg
Lead	SW6020A	1	0.054	1.0	40.2	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.255	mg/Kg
Nickel	SW6020A	1	1.2	5.0	40.7	mg/Kg
Selenium	SW6020A	1	0.035	1.0	2.20	mg/Kg
Vanadium	SW6020A	1	0.28	25	54.7	mg/Kg
Zinc	SW6020A	1	0.70	2.5	85.5	mg/Kg
Mercury	SW7471B	1	0.083	0.50	0.34	mg/Kg
TPH as Diesel	SW8015B	1	0.66	2.0	9.63	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	8.00	mg/Kg
Pyrene	SW8270C	1	12.0	144	18.6	ug/Kg
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	22.4	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	7.73	SU

LB-3-3.0

2212180-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.387	mg/L
Arsenic	SW6020A	1	0.21	1.0	2.92	mg/Kg
Barium	SW6020A	1	0.84	1.0	62.6	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.305	mg/Kg
Chromium	SW6020A	1	0.097	1.0	72.6	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	8.95	mg/Kg
Copper	SW6020A	1	0.17	2.5	10.6	mg/Kg
Lead	SW6020A	1	0.054	1.0	20.9	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.180	mg/Kg
Nickel	SW6020A	1	1.2	5.0	40.1	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.73	mg/Kg
Vanadium	SW6020A	1	0.28	25	49.3	mg/Kg
Zinc	SW6020A	1	0.70	2.5	52.3	mg/Kg
TPH as Diesel	SW8015B	1	0.66	2.0	4.73	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	6.14	mg/Kg
Pyrene	SW8270C	1	12.0	144	13.7	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	8.65	SU



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-3-5.0

2212180-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.234	mg/L
Arsenic	SW6020A	1	0.21	1.0	3.01	mg/Kg
Barium	SW6020A	1	0.84	1.0	75.2	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.329	mg/Kg
Cadmium	SW6020A	1	0.084	1.0	0.0940	mg/Kg
Chromium	SW6020A	1	0.097	1.0	82.2	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	13.1	mg/Kg
Copper	SW6020A	1	0.17	2.5	9.63	mg/Kg
Lead	SW6020A	1	0.054	1.0	4.87	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.152	mg/Kg
Nickel	SW6020A	1	1.2	5.0	61.2	mg/Kg
Selenium	SW6020A	1	0.035	1.0	2.06	mg/Kg
Vanadium	SW6020A	1	0.28	25	58.5	mg/Kg
Zinc	SW6020A	1	0.70	2.5	40.0	mg/Kg
TPH as Diesel	SW8015B	1	0.66	2.0	2.91	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	10.4	mg/Kg
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	18.6	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	8.78	SU

LB-4-1.5

2212180-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.462	mg/L
Arsenic	SW6020A	1	0.21	1.0	2.61	mg/Kg
Barium	SW6020A	1	0.84	1.0	65.2	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.298	mg/Kg
Chromium	SW6020A	1	0.097	1.0	72.5	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	6.29	mg/Kg
Copper	SW6020A	1	0.17	2.5	7.28	mg/Kg
Lead	SW6020A	1	0.054	1.0	3.25	mg/Kg
Nickel	SW6020A	1	1.2	5.0	36.3	mg/Kg
Selenium	SW6020A	1	0.035	1.0	2.04	mg/Kg
Vanadium	SW6020A	1	0.28	25	50.2	mg/Kg
Zinc	SW6020A	1	0.70	2.5	26.7	mg/Kg
Pyrene	SW8270C	1	12.0	144	14.9	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	8.40	SU



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-4-3.0

2212180-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6020A	1	0.21	1.0	3.47	mg/Kg
Barium	SW6020A	1	0.84	1.0	90.1	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.340	mg/Kg
Chromium	SW6020A	1	0.097	1.0	86.8	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	10.5	mg/Kg
Copper	SW6020A	1	0.17	2.5	9.32	mg/Kg
Lead	SW6020A	1	0.054	1.0	3.71	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.157	mg/Kg
Nickel	SW6020A	1	1.2	5.0	53.5	mg/Kg
Selenium	SW6020A	1	0.035	1.0	2.39	mg/Kg
Vanadium	SW6020A	1	0.28	25	60.4	mg/Kg
Zinc	SW6020A	1	0.70	2.5	29.4	mg/Kg
pH in Soil	SW9045D	1	0.10	2.00	7.72	SU

LB-4-5.0

2212180-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6020A	1	0.21	1.0	2.93	mg/Kg
Barium	SW6020A	1	0.84	1.0	57.8	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.289	mg/Kg
Chromium	SW6020A	1	0.097	1.0	71.5	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	12.8	mg/Kg
Copper	SW6020A	1	0.17	2.5	7.95	mg/Kg
Lead	SW6020A	1	0.054	1.0	4.85	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.135	mg/Kg
Nickel	SW6020A	1	1.2	5.0	50.7	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.90	mg/Kg
Vanadium	SW6020A	1	0.28	25	51.3	mg/Kg
Zinc	SW6020A	1	0.70	2.5	27.6	mg/Kg
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	22.3	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	7.50	SU



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-5-1.5

2212180-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Lead (STLC)	SW6010B-STLC	1	0.050	0.20	18.5	mg/L
Antimony	SW6020A	1	0.12	1.0	2.43	mg/Kg
Arsenic	SW6020A	1	0.21	1.0	4.14	mg/Kg
Barium	SW6020A	1	0.84	1.0	107	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.281	mg/Kg
Cadmium	SW6020A	1	0.084	1.0	0.224	mg/Kg
Chromium	SW6020A	1	0.097	1.0	44.3	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	9.18	mg/Kg
Copper	SW6020A	1	0.17	2.5	15.8	mg/Kg
Lead	SW6020A	1	0.054	1.0	473	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.331	mg/Kg
Nickel	SW6020A	1	1.2	5.0	23.3	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.57	mg/Kg
Silver	SW6020A	1	0.098	0.50	0.104	mg/Kg
Vanadium	SW6020A	1	0.28	25	38.1	mg/Kg
Zinc	SW6020A	1	0.70	2.5	182	mg/Kg
Mercury	SW7471B	10	0.83	5.0	13	mg/Kg
TPH as Diesel	SW8015B	1	0.66	2.0	3.79	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	17.5	mg/Kg
Naphthalene	SW8270C	1	10.6	144	26.2	ug/Kg
Phenanthrene	SW8270C	1	9.32	144	67.3	ug/Kg
Anthracene	SW8270C	1	8.91	144	11.8	ug/Kg
Fluoranthene	SW8270C	1	10.0	144	72.4	ug/Kg
Pyrene	SW8270C	1	12.0	144	81.1	ug/Kg
Benzo(a)anthracene	SW8270C	1	9.80	144	56.5	ug/Kg
Chrysene	SW8270C	1	15.2	144	67.7	ug/Kg
Benzo(b)fluorathene	SW8270C	1	12.0	144	79.7	ug/Kg
benzo(k)fluorathene	SW8270C	1	8.16	144	26.6	ug/Kg
Benzo(a)pyrene	SW8270C	1	9.80	144	79.0	ug/Kg
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	63.0	ug/Kg
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	63.0	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	8.17	SU



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-6-2.0

2212180-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6020A	1	0.21	1.0	4.14	mg/Kg
Barium	SW6020A	1	0.84	1.0	121	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.395	mg/Kg
Chromium	SW6020A	1	0.097	1.0	89.7	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	11.5	mg/Kg
Copper	SW6020A	1	0.17	2.5	10.5	mg/Kg
Lead	SW6020A	1	0.054	1.0	5.81	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.197	mg/Kg
Nickel	SW6020A	1	1.2	5.0	51.7	mg/Kg
Selenium	SW6020A	1	0.035	1.0	2.55	mg/Kg
Vanadium	SW6020A	1	0.28	25	61.4	mg/Kg
Zinc	SW6020A	1	0.70	2.5	28.5	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	5.82	mg/Kg
pH in Soil	SW9045D	1	0.10	2.00	8.07	SU

LB-6-3.5

2212180-012

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6020A	1	0.21	1.0	3.71	mg/Kg
Barium	SW6020A	1	0.84	1.0	50.7	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.246	mg/Kg
Chromium	SW6020A	1	0.097	1.0	103	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	6.20	mg/Kg
Copper	SW6020A	1	0.17	2.5	6.80	mg/Kg
Lead	SW6020A	1	0.054	1.0	2.45	mg/Kg
Nickel	SW6020A	1	1.2	5.0	56.1	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.91	mg/Kg
Vanadium	SW6020A	1	0.28	25	59.5	mg/Kg
Zinc	SW6020A	1	0.70	2.5	23.9	mg/Kg
pH in Soil	SW9045D	1	0.10	2.00	7.50	SU



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-6-5.0

2212180-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.438	mg/L
Arsenic	SW6020A	1	0.21	1.0	3.61	mg/Kg
Barium	SW6020A	1	0.84	1.0	35.4	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.235	mg/Kg
Chromium	SW6020A	1	0.097	1.0	96.2	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	6.61	mg/Kg
Copper	SW6020A	1	0.17	2.5	7.22	mg/Kg
Lead	SW6020A	1	0.054	1.0	3.11	mg/Kg
Nickel	SW6020A	1	1.2	5.0	54.0	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.73	mg/Kg
Vanadium	SW6020A	1	0.28	25	56.6	mg/Kg
Zinc	SW6020A	1	0.70	2.5	24.0	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	6.38	mg/Kg
pH in Soil	SW9045D	1	0.10	2.00	7.25	SU

LB-7-1.5

2212180-014

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Copper (STLC)	SW6010B-STLC	1	0.020	0.20	13.1	mg/L
Lead (STLC)	SW6010B-STLC	1	0.050	0.20	72.7	mg/L
Lead (TCPLP)	SW6010B-TCPLP	1	0.050	0.20	0.873	mg/L
Antimony	SW6020A	1	0.12	1.0	0.534	mg/Kg
Arsenic	SW6020A	1	0.21	1.0	3.64	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.294	mg/Kg
Cadmium	SW6020A	1	0.084	1.0	0.0960	mg/Kg
Chromium	SW6020A	1	0.097	1.0	49.2	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	8.85	mg/Kg
Copper	SW6020A	1	0.17	2.5	141	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.320	mg/Kg
Nickel	SW6020A	1	1.2	5.0	20.9	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.72	mg/Kg
Silver	SW6020A	1	0.098	0.50	1.70	mg/Kg
Vanadium	SW6020A	1	0.28	25	32.9	mg/Kg
Zinc	SW6020A	1	0.70	2.5	204	mg/Kg
Barium	SW6020A	2	1.7	2.0	576	mg/Kg
Lead	SW6020A	2	0.11	2.0	846	mg/Kg
Mercury	SW7471B	1	0.083	0.50	0.99	mg/Kg
TPH as Diesel	SW8015B	1	0.66	2.0	2.51	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	22.4	mg/Kg
Pyrene	SW8270C	1	12.0	144	16.8	ug/Kg
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	313	ug/Kg
pH in Soil	SW9045D	1	0.10	2.00	8.19	SU



Sample Result Summary

Report prepared for: Peter Cusack
Langan

Date Received: 12/15/22

Date Reported: 12/23/22

LB-7-3.0

2212180-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6020A	1	0.21	1.0	3.25	mg/Kg
Barium	SW6020A	1	0.84	1.0	70.6	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.399	mg/Kg
Chromium	SW6020A	1	0.097	1.0	75.5	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	4.35	mg/Kg
Copper	SW6020A	1	0.17	2.5	10.1	mg/Kg
Lead	SW6020A	1	0.054	1.0	6.21	mg/Kg
Molybdenum	SW6020A	1	0.13	1.0	0.262	mg/Kg
Nickel	SW6020A	1	1.2	5.0	22.1	mg/Kg
Selenium	SW6020A	1	0.035	1.0	2.24	mg/Kg
Vanadium	SW6020A	1	0.28	25	50.8	mg/Kg
Zinc	SW6020A	1	0.70	2.5	20.5	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	6.32	mg/Kg
pH in Soil	SW9045D	1	0.10	2.00	7.40	SU

LB-7-5.0

2212180-016

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6020A	1	0.21	1.0	3.13	mg/Kg
Barium	SW6020A	1	0.84	1.0	98.6	mg/Kg
Beryllium	SW6020A	1	0.16	1.0	0.345	mg/Kg
Chromium	SW6020A	1	0.097	1.0	84.5	mg/Kg
Cobalt	SW6020A	1	0.21	1.0	8.05	mg/Kg
Copper	SW6020A	1	0.17	2.5	7.97	mg/Kg
Lead	SW6020A	1	0.054	1.0	10.9	mg/Kg
Nickel	SW6020A	1	1.2	5.0	42.5	mg/Kg
Selenium	SW6020A	1	0.035	1.0	1.90	mg/Kg
Vanadium	SW6020A	1	0.28	25	56.3	mg/Kg
Zinc	SW6020A	1	0.70	2.5	26.0	mg/Kg
TPH as Motor Oil	SW8015B	1	0.76	5.0	5.74	mg/Kg
pH in Soil	SW9045D	1	0.10	2.00	7.12	SU



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-2-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:17
SDG:

Lab Sample ID: 2212180-001A
Sample Matrix: Soil

Prep Method: 9010P
Prep Batch ID: 1147517

Prep Batch Date/Time: 12/17/22 8:00:00AM
Prep Analyst: PHUFANO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-1.5	Lab Sample ID:	2212180-001A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:17		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	5	0.42	2.5	7.6		mg/Kg	12/16/22	11:42	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-1.5	Lab Sample ID:	2212180-001A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:17		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Batch ID: 1147472	Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Antimony	SW6020A	1	0.12	1.0	2.40		mg/Kg	12/19/22	16:03	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	7.98		mg/Kg	12/19/22	16:03	ERR	471558
Barium	SW6020A	1	0.84	1.0	195		mg/Kg	12/19/22	16:03	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.224	J	mg/Kg	12/19/22	16:03	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	0.312	J	mg/Kg	12/19/22	16:03	ERR	471558
Chromium	SW6020A	1	0.097	1.0	64.1		mg/Kg	12/19/22	16:03	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	3.31		mg/Kg	12/19/22	16:03	ERR	471558
Copper	SW6020A	1	0.17	2.5	104		mg/Kg	12/19/22	16:03	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.644	J	mg/Kg	12/19/22	16:03	ERR	471558
Nickel	SW6020A	1	1.2	5.0	23.3		mg/Kg	12/19/22	16:03	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.56		mg/Kg	12/19/22	16:03	ERR	471558
Silver	SW6020A	1	0.098	0.50	0.696		mg/Kg	12/19/22	16:03	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	16:03	ERR	471558
Vanadium	SW6020A	1	0.28	25	35.7		mg/Kg	12/19/22	16:03	ERR	471558
Zinc	SW6020A	1	0.70	2.5	178		mg/Kg	12/19/22	16:03	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-2-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:17
SDG:

Lab Sample ID: 2212180-001A
Sample Matrix: Soil

Prep Method: 6020S-P
Prep Batch ID: 1147472

Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Lead	SW6020A	2	0.11	2.0	598		mg/Kg	12/20/22	15:59	ERR	471601



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-2-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:17
SDG:

Lab Sample ID: 2212180-001A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STL C	1	0.010	0.20	0.702		mg/L	01/03/23	12:35	AT	471719
Lead (STLC)	SW6010B-STL C	1	0.050	0.20	0.987		mg/L	01/03/23	12:35	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:17
SDG:

Lab Sample ID: 2212180-001A
Sample Matrix: Soil

Prep Method: 1311/3010A
Prep Batch ID: 1147709

Prep Batch Date/Time: 12/29/22 4:30:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead (TCLP)	SW6010B-TCL P	1	0.050	0.20	ND		mg/L	12/30/22	12:33	AT	471711



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-1.5	Lab Sample ID:	2212180-001A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:17		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	15:00	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	15:00	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	15:00	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	15:00	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	15:00	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	15:00	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	15:00	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		85.0		%	12/16/22	15:00	MK	471516
DCBP (S)	SW8082A		48 - 135		82.0		%	12/16/22	15:00	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-1.5	Lab Sample ID:	2212180-001A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:17		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	16:16	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	0.679	J	ug/Kg	12/17/22	16:16	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	16:16	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	16:16	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	16:16	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		58.4		%	12/17/22	16:16	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		65.0		%	12/17/22	16:16	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:17
SDG:

Lab Sample ID: 2212180-001A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	5.79		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-1.5	Lab Sample ID:	2212180-001A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:17		
SDG:			

Prep Method: 3546_BNA	Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Batch ID: 1147435	Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	1:40	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	1:40	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	1:40	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	1:40	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	1:40	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	1:40	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	1:40	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	1:40	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	1:40	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	1:40	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	1:40	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	1:40	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	1:40	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	1:40	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	1:40	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	1:40	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Naphthalene	SW8270C	1	10.6	144	29.9	J	ug/Kg	12/22/22	1:40	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	1:40	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	1:40	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	1:40	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	13.0	J	ug/Kg	12/22/22	1:40	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	1:40	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	1:40	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	1:40	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	1:40	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	1:40	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	1:40	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	1:40	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	1:40	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:17
SDG:

Lab Sample ID: 2212180-001A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	10.9	J	ug/Kg	12/22/22	1:40	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	1:40	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	1:40	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	13.0	J	ug/Kg	12/22/22	1:40	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	1:40	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	1:40	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	1:40	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	1:40	MK	471614
Fluorene	SW8270C	1	10.3	144	11.0	J	ug/Kg	12/22/22	1:40	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	1:40	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	1:40	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	1:40	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	1:40	MK	471614
Phenanthrene	SW8270C	1	9.32	144	78.0	J	ug/Kg	12/22/22	1:40	MK	471614
Anthracene	SW8270C	1	8.91	144	16.8	J	ug/Kg	12/22/22	1:40	MK	471614
Carbazole	SW8270C	1	10.7	144	11.9	J	ug/Kg	12/22/22	1:40	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Fluoranthene	SW8270C	1	10.0	144	65.4	J	ug/Kg	12/22/22	1:40	MK	471614
Benidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Pyrene	SW8270C	1	12.0	144	76.3	J	ug/Kg	12/22/22	1:40	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	1:40	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	31.1	J	ug/Kg	12/22/22	1:40	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Chrysene	SW8270C	1	15.2	144	41.9	J	ug/Kg	12/22/22	1:40	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	75.5	J	ug/Kg	12/22/22	1:40	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	36.2	J	ug/Kg	12/22/22	1:40	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	10.4	J	ug/Kg	12/22/22	1:40	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	18.3	J	ug/Kg	12/22/22	1:40	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	15.3	J	ug/Kg	12/22/22	1:40	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	1:40	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	1:40	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		73.0		%	12/22/22	1:40	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-1.5	Lab Sample ID:	2212180-001A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:17		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	72.3	%	12/22/22	1:40	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	70.8	%	12/22/22	1:40	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	72.0	%	12/22/22	1:40	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	74.4	%	12/22/22	1:40	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	70.7	%	12/22/22	1:40	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-2-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:17
SDG:

Lab Sample ID: 2212180-001A
Sample Matrix: Soil

Prep Method: 3546_TPH
Prep Batch ID: 1147438

Prep Batch Date/Time: 12/15/22 11:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	6.95	x	mg/Kg	12/16/22	13:12	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	43.2		mg/Kg	12/16/22	13:12	SN	471562
Acceptance Limits					72.1		%	12/16/22	13:12	SN	471562
Pentacosane (S)	SW8015B		45 - 130								

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:17
SDG:

Lab Sample ID: 2212180-001A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	15:24	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	15:24	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	15:24	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	15:24	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	15:24	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	15:24	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	15:24	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	15:24	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-1.5	Lab Sample ID:	2212180-001A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:17		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Batch ID: 1147485	Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	15:24	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	15:24	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	15:24	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	15:24	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	15:24	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	15:24	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	15:24	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	15:24	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	15:24	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		83.3		%	12/15/22	15:24	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		77.7		%	12/15/22	15:24	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		79.4		%	12/15/22	15:24	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-1.5	Lab Sample ID:	2212180-001A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:17		
SDG:			

Prep Method:	5035GRO	Prep Batch Date/Time:	12/15/22 10:59:00AM
Prep Batch ID:	1147488	Prep Analyst:	HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	15:24	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		97.1		%	12/15/22	15:24	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method: 9010P	Prep Batch Date/Time: 12/17/22 8:00:00AM
Prep Batch ID: 1147517	Prep Analyst: PHUFANO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-2-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:20
SDG:

Lab Sample ID: 2212180-002A
Sample Matrix: Soil

Prep Method: 7471BP
Prep Batch ID: 1147466

Prep Batch Date/Time: 12/15/22 6:45:00PM
Prep Analyst: TNGO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	2	0.17	1.0	3.9		mg/Kg	12/16/22	11:45	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Batch ID: 1147472	Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Antimony	SW6020A	1	0.12	1.0	0.806	J	mg/Kg	12/19/22	16:17	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	8.44		mg/Kg	12/19/22	16:17	ERR	471558
Barium	SW6020A	1	0.84	1.0	124		mg/Kg	12/19/22	16:17	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.352	J	mg/Kg	12/19/22	16:17	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	0.772	J	mg/Kg	12/19/22	16:17	ERR	471558
Chromium	SW6020A	1	0.097	1.0	57.3		mg/Kg	12/19/22	16:17	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	17.0		mg/Kg	12/19/22	16:17	ERR	471558
Copper	SW6020A	1	0.17	2.5	44.2		mg/Kg	12/19/22	16:17	ERR	471558
Lead	SW6020A	1	0.054	1.0	113		mg/Kg	12/19/22	16:17	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.493	J	mg/Kg	12/19/22	16:17	ERR	471558
Nickel	SW6020A	1	1.2	5.0	34.6		mg/Kg	12/19/22	16:17	ERR	471558
Selenium	SW6020A	1	0.035	1.0	2.23		mg/Kg	12/19/22	16:17	ERR	471558
Silver	SW6020A	1	0.098	0.50	0.587		mg/Kg	12/19/22	16:17	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	16:17	ERR	471558
Vanadium	SW6020A	1	0.28	25	41.9		mg/Kg	12/19/22	16:17	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Zinc	SW6020A	2	1.4	5.0	516		mg/Kg	12/19/22	18:48	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method:	WET/3010B	Prep Batch Date/Time:	12/30/22 12:50:00PM
Prep Batch ID:	1147721	Prep Analyst:	ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STL C	1	0.010	0.20	1.71		mg/L	01/03/23	12:37	AT	471719
Lead (STLC)	SW6010B-STL C	1	0.050	0.20	1.86		mg/L	01/03/23	12:37	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	15:16	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	15:16	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	15:16	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	15:16	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	15:16	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	15:16	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	15:16	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		59.0		%	12/16/22	15:16	MK	471516
DCBP (S)	SW8082A		48 - 135		60.0		%	12/16/22	15:16	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:20
SDG:

Lab Sample ID: 2212180-002A
Sample Matrix: Soil

Prep Method: 3546_OCP
Prep Batch ID: 1147477

Prep Batch Date/Time: 12/16/22 11:32:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	16:29	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	16:29	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	16:29	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	16:29	LA	471572

Acceptance Limits

Tetrachloro-M-Xylene (S)	SW8081B		48 - 125	34.7	S	%	12/17/22	16:29	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135	41.6		%	12/17/22	16:29	LA	471572

NOTE: S-surrogate outside of control limits due to matrix interference



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-2-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:20
SDG:

Lab Sample ID: 2212180-002A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	6.72		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	2:08	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	2:08	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	2:08	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	2:08	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	2:08	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	2:08	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	2:08	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	2:08	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	14.1	J	ug/Kg	12/22/22	2:08	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	2:08	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	2:08	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	2:08	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	2:08	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	2:08	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	2:08	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	2:08	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	2:08	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	2:08	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	2:08	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	2:08	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	2:08	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	2:08	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	2:08	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method: 3546_BNA	Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Batch ID: 1147435	Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	2:08	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	2:08	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	2:08	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	2:08	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	2:08	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	2:08	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	2:08	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	2:08	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	2:08	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	2:08	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	2:08	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Pyrene	SW8270C	1	12.0	144	17.7	J	ug/Kg	12/22/22	2:08	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	2:08	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	2:08	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	30.2	J	ug/Kg	12/22/22	2:08	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	2:08	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	2:08	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	2:08	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		53.8		%	12/22/22	2:08	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	61.8	%	12/22/22	2:08	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	65.5	%	12/22/22	2:08	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	63.2	%	12/22/22	2:08	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	49.4	%	12/22/22	2:08	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	72.4	%	12/22/22	2:08	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	3.77	x	mg/Kg	12/16/22	13:37	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	16.6		mg/Kg	12/16/22	13:37	SN	471562
Acceptance Limits											
Pentacosane (S)	SW8015B		45 - 130		46.7		%	12/16/22	13:37	SN	471562

NOTE: x- Diesel result due to unknown organics within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-3.0	Lab Sample ID:	2212180-002A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:20		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Batch ID: 1147485	Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	16:00	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	16:00	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:00	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	16:00	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:00	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	16:00	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	16:00	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	16:00	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:20
SDG:

Lab Sample ID: 2212180-002A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:00	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	16:00	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:00	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:00	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	16:00	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:00	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	16:00	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:00	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	16:00	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		77.5		%	12/15/22	16:00	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		75.8		%	12/15/22	16:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		76.2		%	12/15/22	16:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:20
SDG:

Lab Sample ID: 2212180-002A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	16:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		99.2		%	12/15/22	16:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	0.14	J	mg/Kg	12/16/22	10:57	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	16:22	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.18		mg/Kg	12/19/22	16:22	ERR	471558
Barium	SW6020A	1	0.84	1.0	76.7		mg/Kg	12/19/22	16:22	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.275	J	mg/Kg	12/19/22	16:22	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	16:22	ERR	471558
Chromium	SW6020A	1	0.097	1.0	97.0		mg/Kg	12/19/22	16:22	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	8.66		mg/Kg	12/19/22	16:22	ERR	471558
Copper	SW6020A	1	0.17	2.5	10.9		mg/Kg	12/19/22	16:22	ERR	471558
Lead	SW6020A	1	0.054	1.0	4.16		mg/Kg	12/19/22	16:22	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.196	J	mg/Kg	12/19/22	16:22	ERR	471558
Nickel	SW6020A	1	1.2	5.0	45.6		mg/Kg	12/19/22	16:22	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.91		mg/Kg	12/19/22	16:22	ERR	471558
Silver	SW6020A	1	0.098	0.50	0.182	J	mg/Kg	12/19/22	16:22	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	16:22	ERR	471558
Vanadium	SW6020A	1	0.28	25	63.8		mg/Kg	12/19/22	16:22	ERR	471558
Zinc	SW6020A	1	0.70	2.5	143		mg/Kg	12/19/22	16:22	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	WET/3010B	Prep Batch Date/Time:	12/30/22 12:50:00PM
Prep Batch ID:	1147721	Prep Analyst:	ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.878		mg/L	01/03/23	12:39	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	15:33	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	15:33	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	15:33	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	15:33	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	15:33	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	15:33	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	15:33	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		96.0		%	12/16/22	15:33	MK	471516
DCBP (S)	SW8082A		48 - 135		92.0		%	12/16/22	15:33	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	16:42	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	16:42	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	16:42	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	16:42	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		63.0		%	12/17/22	16:42	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		69.8		%	12/17/22	16:42	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:35
SDG:

Lab Sample ID: 2212180-003A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	6.63		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	2:36	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	2:36	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	2:36	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	2:36	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	2:36	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	2:36	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	2:36	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	2:36	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	2:36	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	2:36	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	2:36	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	2:36	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	2:36	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	2:36	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	2:36	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	2:36	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	2:36	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	2:36	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	2:36	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	2:36	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	2:36	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	2:36	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:35
SDG:

Lab Sample ID: 2212180-003A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	2:36	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	2:36	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	2:36	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	2:36	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	2:36	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	2:36	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	2:36	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	2:36	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	2:36	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	2:36	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	2:36	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	2:36	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	2:36	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	2:36	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	2:36	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	2:36	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	2:36	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		69.3		%	12/22/22	2:36	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C		24 - 113		67.6		%	12/22/22	2:36	MK	471614
2,4,6-Tribromophenol (S)	SW8270C		19 - 122		64.4		%	12/22/22	2:36	MK	471614
2-Fluorobiphenyl (S)	SW8270C		45 - 143		68.2		%	12/22/22	2:36	MK	471614
Nitrobenzene-d5 (S)	SW8270C		23 - 120		64.4		%	12/22/22	2:36	MK	471614
p-Terphenyl-d14 (S)	SW8270C		18 - 137		75.8		%	12/22/22	2:36	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	2.17	x	mg/Kg	12/16/22	14:13	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	9.64		mg/Kg	12/16/22	14:13	SN	471562
Acceptance Limits					90.2		%	12/16/22	14:13	SN	471562
Pentacosane (S)	SW8015B		45 - 130								

NOTE: x- Diesel result due to unknown organics within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:35
SDG:

Lab Sample ID: 2212180-003A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	16:30	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	16:30	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:30	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	16:30	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:30	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	16:30	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	16:30	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	16:30	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-2-5.0	Lab Sample ID:	2212180-003A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 20:35		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Batch ID: 1147485	Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:30	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	16:30	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:30	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	16:30	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	16:30	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	16:30	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	16:30	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	16:30	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	16:30	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		76.2		%	12/15/22	16:30	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		76.1		%	12/15/22	16:30	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.5		%	12/15/22	16:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-2-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 20:35
SDG:

Lab Sample ID: 2212180-003A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	16:30	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		93.5		%	12/15/22	16:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-1.5	Lab Sample ID:	2212180-004A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:40		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-1.5	Lab Sample ID:	2212180-004A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:40		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	0.34	J	mg/Kg	12/16/22	11:04	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-1.5	Lab Sample ID:	2212180-004A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:40		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Batch ID: 1147472	Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Antimony	SW6020A	1	0.12	1.0	0.149	J	mg/Kg	12/19/22	16:27	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.31		mg/Kg	12/19/22	16:27	ERR	471558
Barium	SW6020A	1	0.84	1.0	73.1		mg/Kg	12/19/22	16:27	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.349	J	mg/Kg	12/19/22	16:27	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	0.114	J	mg/Kg	12/19/22	16:27	ERR	471558
Chromium	SW6020A	1	0.097	1.0	69.4		mg/Kg	12/19/22	16:27	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	11.6		mg/Kg	12/19/22	16:27	ERR	471558
Copper	SW6020A	1	0.17	2.5	13.7		mg/Kg	12/19/22	16:27	ERR	471558
Lead	SW6020A	1	0.054	1.0	40.2		mg/Kg	12/19/22	16:27	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.255	J	mg/Kg	12/19/22	16:27	ERR	471558
Nickel	SW6020A	1	1.2	5.0	40.7		mg/Kg	12/19/22	16:27	ERR	471558
Selenium	SW6020A	1	0.035	1.0	2.20		mg/Kg	12/19/22	16:27	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	16:27	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	16:27	ERR	471558
Vanadium	SW6020A	1	0.28	25	54.7		mg/Kg	12/19/22	16:27	ERR	471558
Zinc	SW6020A	1	0.70	2.5	85.5		mg/Kg	12/19/22	16:27	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:40
SDG:

Lab Sample ID: 2212180-004A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	1.51		mg/L	01/03/23	12:44	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-3-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:40
SDG:

Lab Sample ID: 2212180-004A
Sample Matrix: Soil

Prep Method: 3546_PCB
Prep Batch ID: 1147440

Prep Batch Date/Time: 12/15/22 11:46:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	15:49	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	15:49	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	15:49	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	15:49	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	15:49	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	15:49	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	15:49	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		78.0		%	12/16/22	15:49	MK	471516
DCBP (S)	SW8082A		48 - 135		78.0		%	12/16/22	15:49	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:40
SDG:

Lab Sample ID: 2212180-004A
Sample Matrix: Soil

Prep Method: 3546_OCP
Prep Batch ID: 1147477

Prep Batch Date/Time: 12/16/22 11:32:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	16:54	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	16:54	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	16:54	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	16:54	LA	471572

Acceptance Limits

Tetrachloro-M-Xylene (S)	SW8081B		48 - 125	43.7	S	%	12/17/22	16:54	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135	51.2		%	12/17/22	16:54	LA	471572

NOTE: S-TCMX surrogate outside of control limits due to matrix interference



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:40
SDG:

Lab Sample ID: 2212180-004A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	7.73		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:40
SDG:

Lab Sample ID: 2212180-004A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	3:04	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	3:04	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	3:04	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	3:04	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	3:04	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	3:04	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	3:04	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	3:04	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	3:04	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	3:04	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	3:04	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	3:04	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	3:04	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	3:04	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	3:04	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	3:04	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	3:04	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	3:04	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	3:04	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	3:04	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	3:04	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	3:04	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:40
SDG:

Lab Sample ID: 2212180-004A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	3:04	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	3:04	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	3:04	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	3:04	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	3:04	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	3:04	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	3:04	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	3:04	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	3:04	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	3:04	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	3:04	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Pyrene	SW8270C	1	12.0	144	18.6	J	ug/Kg	12/22/22	3:04	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	3:04	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	3:04	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	22.4	J	ug/Kg	12/22/22	3:04	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	3:04	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	3:04	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	3:04	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		76.3		%	12/22/22	3:04	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-1.5	Lab Sample ID:	2212180-004A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:40		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	71.4	%	12/22/22	3:04	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	63.8	%	12/22/22	3:04	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	71.8	%	12/22/22	3:04	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	67.6	%	12/22/22	3:04	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	79.3	%	12/22/22	3:04	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-3-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:40
SDG:

Lab Sample ID: 2212180-004A
Sample Matrix: Soil

Prep Method: 3546_TPH
Prep Batch ID: 1147438

Prep Batch Date/Time: 12/15/22 11:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	9.63	x	mg/Kg	12/16/22	14:48	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	8.00		mg/Kg	12/16/22	14:48	SN	471562
Acceptance Limits					67.8		%	12/16/22	14:48	SN	471562
Pentacosane (S)	SW8015B		45 - 130								

NOTE: x- Diesel result due to unknown organics within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:40
SDG:

Lab Sample ID: 2212180-004A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	17:00	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	17:00	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:00	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	17:00	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:00	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	17:00	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	17:00	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	17:00	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-1.5	Lab Sample ID:	2212180-004A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:40		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Batch ID: 1147485	Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:00	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	17:00	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:00	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:00	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	17:00	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:00	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	17:00	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:00	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	17:00	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		78.5		%	12/15/22	17:00	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		72.3		%	12/15/22	17:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		82.7		%	12/15/22	17:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-1.5	Lab Sample ID:	2212180-004A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:40		
SDG:			

Prep Method:	5035GRO	Prep Batch Date/Time:	12/15/22	10:59:00AM
Prep Batch ID:	1147488	Prep Analyst:	HVYAS	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	17:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		63.0		%	12/15/22	17:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:06	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	16:32	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	2.92		mg/Kg	12/19/22	16:32	ERR	471558
Barium	SW6020A	1	0.84	1.0	62.6		mg/Kg	12/19/22	16:32	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.305	J	mg/Kg	12/19/22	16:32	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	16:32	ERR	471558
Chromium	SW6020A	1	0.097	1.0	72.6		mg/Kg	12/19/22	16:32	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	8.95		mg/Kg	12/19/22	16:32	ERR	471558
Copper	SW6020A	1	0.17	2.5	10.6		mg/Kg	12/19/22	16:32	ERR	471558
Lead	SW6020A	1	0.054	1.0	20.9		mg/Kg	12/19/22	16:32	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.180	J	mg/Kg	12/19/22	16:32	ERR	471558
Nickel	SW6020A	1	1.2	5.0	40.1		mg/Kg	12/19/22	16:32	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.73		mg/Kg	12/19/22	16:32	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	16:32	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	16:32	ERR	471558
Vanadium	SW6020A	1	0.28	25	49.3		mg/Kg	12/19/22	16:32	ERR	471558
Zinc	SW6020A	1	0.70	2.5	52.3		mg/Kg	12/19/22	16:32	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:51
SDG:

Lab Sample ID: 2212180-005A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.387		mg/L	01/03/23	12:45	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-3-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:51
SDG:

Lab Sample ID: 2212180-005A
Sample Matrix: Soil

Prep Method: 3546_PCB
Prep Batch ID: 1147440

Prep Batch Date/Time: 12/15/22 11:46:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	16:06	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	16:06	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	16:06	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	16:06	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	16:06	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	16:06	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	16:06	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		89.0		%	12/16/22	16:06	MK	471516
DCBP (S)	SW8082A		48 - 135		86.0		%	12/16/22	16:06	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	17:07	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	17:07	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	17:07	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	17:07	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		59.9		%	12/17/22	17:07	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		64.6		%	12/17/22	17:07	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	9045C	Prep Batch Date/Time:	12/19/22	12:20:00PM
Prep Batch ID:	1147568	Prep Analyst:	ROME	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	8.65		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	3:32	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	3:32	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	3:32	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	3:32	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	3:32	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	3:32	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	3:32	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	3:32	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	3:32	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	3:32	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	3:32	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	3:32	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	3:32	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	3:32	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	3:32	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	3:32	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	3:32	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	3:32	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	3:32	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	3:32	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	3:32	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	3:32	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	3:32	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	3:32	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	3:32	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	3:32	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	3:32	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	3:32	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	3:32	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	3:32	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	3:32	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	3:32	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	3:32	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Benzydine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Pyrene	SW8270C	1	12.0	144	13.7	J	ug/Kg	12/22/22	3:32	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	3:32	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	3:32	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	3:32	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	3:32	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	3:32	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	3:32	MK	471614

Acceptance Limits

2-Fluorophenol (S)	SW8270C		25 - 121		61.2		%	12/22/22	3:32	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	60.2	%	12/22/22	3:32	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	46.9	%	12/22/22	3:32	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	64.5	%	12/22/22	3:32	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	61.6	%	12/22/22	3:32	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	80.2	%	12/22/22	3:32	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-3.0	Lab Sample ID:	2212180-005A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:51		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	4.73	x	mg/Kg	12/16/22	15:13	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	6.14		mg/Kg	12/16/22	15:13	SN	471562
Acceptance Limits											
Pentacosane (S)	SW8015B		45 - 130		98.3		%	12/16/22	15:13	SN	471562

NOTE: x- Diesel result due to unknown organics within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:51
SDG:

Lab Sample ID: 2212180-005A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	17:30	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	17:30	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:30	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	17:30	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:30	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	17:30	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	17:30	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	17:30	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:51
SDG:

Lab Sample ID: 2212180-005A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:30	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	17:30	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:30	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	17:30	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	17:30	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	17:30	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	17:30	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	17:30	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	17:30	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		79.5		%	12/15/22	17:30	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		72.9		%	12/15/22	17:30	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		79.3		%	12/15/22	17:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-3-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:51
SDG:

Lab Sample ID: 2212180-005A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	17:30	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		89.7		%	12/15/22	17:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method: 9010P	Prep Batch Date/Time: 12/17/22 8:00:00AM
Prep Batch ID: 1147517	Prep Analyst: PHUFANO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:08	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Batch ID: 1147472	Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	16:47	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.01		mg/Kg	12/19/22	16:47	ERR	471558
Barium	SW6020A	1	0.84	1.0	75.2		mg/Kg	12/19/22	16:47	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.329	J	mg/Kg	12/19/22	16:47	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	0.0940	J	mg/Kg	12/19/22	16:47	ERR	471558
Chromium	SW6020A	1	0.097	1.0	82.2		mg/Kg	12/19/22	16:47	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	13.1		mg/Kg	12/19/22	16:47	ERR	471558
Copper	SW6020A	1	0.17	2.5	9.63		mg/Kg	12/19/22	16:47	ERR	471558
Lead	SW6020A	1	0.054	1.0	4.87		mg/Kg	12/19/22	16:47	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.152	J	mg/Kg	12/19/22	16:47	ERR	471558
Nickel	SW6020A	1	1.2	5.0	61.2		mg/Kg	12/19/22	16:47	ERR	471558
Selenium	SW6020A	1	0.035	1.0	2.06		mg/Kg	12/19/22	16:47	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	16:47	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	16:47	ERR	471558
Vanadium	SW6020A	1	0.28	25	58.5		mg/Kg	12/19/22	16:47	ERR	471558
Zinc	SW6020A	1	0.70	2.5	40.0		mg/Kg	12/19/22	16:47	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-3-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 23:18
SDG:

Lab Sample ID: 2212180-006A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.234		mg/L	01/03/23	12:47	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	16:22	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	16:22	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	16:22	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	16:22	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	16:22	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	16:22	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	16:22	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		97.0		%	12/16/22	16:22	MK	471516
DCBP (S)	SW8082A		48 - 135		93.0		%	12/16/22	16:22	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 12/16/22 11:32:00AM
Prep Batch ID: 1147477	Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	17:21	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	17:21	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	17:21	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	17:21	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		65.2		%	12/17/22	17:21	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		70.3		%	12/17/22	17:21	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-3-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 23:18
SDG:

Lab Sample ID: 2212180-006A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	8.78		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	4:00	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	4:00	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	4:00	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	4:00	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	4:00	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	4:00	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	4:00	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	4:00	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	4:00	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	4:00	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	4:00	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	4:00	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	4:00	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	4:00	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	4:00	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	4:00	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	4:00	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	4:00	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	4:00	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	4:00	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	4:00	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	4:00	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	4:00	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	4:00	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	4:00	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	4:00	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	4:00	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	4:00	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	4:00	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	4:00	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	4:00	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	4:00	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	4:00	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	4:00	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	4:00	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	18.6	J	ug/Kg	12/22/22	4:00	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	4:00	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	4:00	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	4:00	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		79.9		%	12/22/22	4:00	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	75.3	%	12/22/22	4:00	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	63.5	%	12/22/22	4:00	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	74.0	%	12/22/22	4:00	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	74.0	%	12/22/22	4:00	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	89.5	%	12/22/22	4:00	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-3-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 23:18
SDG:

Lab Sample ID: 2212180-006A
Sample Matrix: Soil

Prep Method: 3546_TPH
Prep Batch ID: 1147438

Prep Batch Date/Time: 12/15/22 11:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	2.91	x	mg/Kg	12/16/22	15:39	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	10.4		mg/Kg	12/16/22	15:39	SN	471562
Acceptance Limits					79.9		%	12/16/22	15:39	SN	471562
Pentacosane (S)	SW8015B		45 - 130								

NOTE: x- Diesel result due to unknown organics within diesel quantified range.



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 23:18
SDG:

Lab Sample ID: 2212180-006A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	18:00	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	18:00	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:00	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	18:00	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:00	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	18:00	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	18:00	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	18:00	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-3-5.0	Lab Sample ID:	2212180-006A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 23:18		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Batch ID: 1147485	Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:00	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	18:00	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:00	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:00	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	18:00	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:00	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	18:00	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:00	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	18:00	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		73.3		%	12/15/22	18:00	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		74.1		%	12/15/22	18:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		81.4		%	12/15/22	18:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-3-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 23:18
SDG:

Lab Sample ID: 2212180-006A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	18:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		83.3		%	12/15/22	18:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-1.5	Lab Sample ID:	2212180-007A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:12		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-4-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:12
SDG:

Lab Sample ID: 2212180-007A
Sample Matrix: Soil

Prep Method: 7471BP
Prep Batch ID: 1147466

Prep Batch Date/Time: 12/15/22 6:45:00PM
Prep Analyst: TNGO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:10	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-1.5	Lab Sample ID:	2212180-007A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:12		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	16:51	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	2.61		mg/Kg	12/19/22	16:51	ERR	471558
Barium	SW6020A	1	0.84	1.0	65.2		mg/Kg	12/19/22	16:51	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.298	J	mg/Kg	12/19/22	16:51	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	16:51	ERR	471558
Chromium	SW6020A	1	0.097	1.0	72.5		mg/Kg	12/19/22	16:51	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	6.29		mg/Kg	12/19/22	16:51	ERR	471558
Copper	SW6020A	1	0.17	2.5	7.28		mg/Kg	12/19/22	16:51	ERR	471558
Lead	SW6020A	1	0.054	1.0	3.25		mg/Kg	12/19/22	16:51	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	ND		mg/Kg	12/19/22	16:51	ERR	471558
Nickel	SW6020A	1	1.2	5.0	36.3		mg/Kg	12/19/22	16:51	ERR	471558
Selenium	SW6020A	1	0.035	1.0	2.04		mg/Kg	12/19/22	16:51	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	16:51	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	16:51	ERR	471558
Vanadium	SW6020A	1	0.28	25	50.2		mg/Kg	12/19/22	16:51	ERR	471558
Zinc	SW6020A	1	0.70	2.5	26.7		mg/Kg	12/19/22	16:51	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-1.5	Lab Sample ID:	2212180-007A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:12		
SDG:			

Prep Method:	WET/3010B	Prep Batch Date/Time:	12/30/22 12:50:00PM
Prep Batch ID:	1147721	Prep Analyst:	ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.462		mg/L	01/03/23	12:49	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-1.5	Lab Sample ID:	2212180-007A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:12		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	16:38	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	16:38	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	16:38	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	16:38	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	16:38	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	16:38	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	16:38	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		98.0		%	12/16/22	16:38	MK	471516
DCBP (S)	SW8082A		48 - 135		93.0		%	12/16/22	16:38	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-1.5	Lab Sample ID:	2212180-007A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:12		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	17:34	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	17:34	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	17:34	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	17:34	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		68.8		%	12/17/22	17:34	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		72.0		%	12/17/22	17:34	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:12
SDG:

Lab Sample ID: 2212180-007A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	8.40		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-1.5	Lab Sample ID:	2212180-007A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:12		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	4:28	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	4:28	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	4:28	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	4:28	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	4:28	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	4:28	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	4:28	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	4:28	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	4:28	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	4:28	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	4:28	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	4:28	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	4:28	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	4:28	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	4:28	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	4:28	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	4:28	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	4:28	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	4:28	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	4:28	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	4:28	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	4:28	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:12
SDG:

Lab Sample ID: 2212180-007A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	4:28	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	4:28	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	4:28	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	4:28	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	4:28	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	4:28	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	4:28	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	4:28	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	4:28	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	4:28	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	4:28	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Pyrene	SW8270C	1	12.0	144	14.9	J	ug/Kg	12/22/22	4:28	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	4:28	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	4:28	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	4:28	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	4:28	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	4:28	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	4:28	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		69.1		%	12/22/22	4:28	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-4-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:12
SDG:

Lab Sample ID: 2212180-007A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	71.8	%	12/22/22	4:28	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	53.8	%	12/22/22	4:28	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	73.5	%	12/22/22	4:28	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	71.2	%	12/22/22	4:28	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	85.3	%	12/22/22	4:28	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-4-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:12
SDG:

Lab Sample ID: 2212180-007A
Sample Matrix: Soil

Prep Method: 3546_TPH
Prep Batch ID: 1147438

Prep Batch Date/Time: 12/15/22 11:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	ND		mg/Kg	12/16/22	16:04	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	ND		mg/Kg	12/16/22	16:04	SN	471562
Acceptance Limits											
Pentacosane (S)	SW8015B		45 - 130		91.4		%	12/16/22	16:04	SN	471562



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:12
SDG:

Lab Sample ID: 2212180-007A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	18:30	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	18:30	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:30	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	18:30	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:30	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	18:30	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	18:30	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	18:30	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-1.5	Lab Sample ID:	2212180-007A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:12		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	12/15/22 10:59:00AM
Prep Batch ID:	1147485	Prep Analyst:	HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:30	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	18:30	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:30	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	18:30	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	18:30	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	18:30	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	18:30	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	18:30	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	18:30	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		74.9		%	12/15/22	18:30	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		76.0		%	12/15/22	18:30	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.2		%	12/15/22	18:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:12
SDG:

Lab Sample ID: 2212180-007A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	18:30	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		101		%	12/15/22	18:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method: 9010P	Prep Batch Date/Time: 12/17/22 8:00:00AM
Prep Batch ID: 1147517	Prep Analyst: PHUFANO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:12	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	16:56	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.47		mg/Kg	12/19/22	16:56	ERR	471558
Barium	SW6020A	1	0.84	1.0	90.1		mg/Kg	12/19/22	16:56	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.340	J	mg/Kg	12/19/22	16:56	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	16:56	ERR	471558
Chromium	SW6020A	1	0.097	1.0	86.8		mg/Kg	12/19/22	16:56	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	10.5		mg/Kg	12/19/22	16:56	ERR	471558
Copper	SW6020A	1	0.17	2.5	9.32		mg/Kg	12/19/22	16:56	ERR	471558
Lead	SW6020A	1	0.054	1.0	3.71		mg/Kg	12/19/22	16:56	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.157	J	mg/Kg	12/19/22	16:56	ERR	471558
Nickel	SW6020A	1	1.2	5.0	53.5		mg/Kg	12/19/22	16:56	ERR	471558
Selenium	SW6020A	1	0.035	1.0	2.39		mg/Kg	12/19/22	16:56	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	16:56	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	16:56	ERR	471558
Vanadium	SW6020A	1	0.28	25	60.4		mg/Kg	12/19/22	16:56	ERR	471558
Zinc	SW6020A	1	0.70	2.5	29.4		mg/Kg	12/19/22	16:56	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:20
SDG:

Lab Sample ID: 2212180-008A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	ND		mg/L	01/03/23	12:50	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	16:55	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	16:55	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	16:55	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	16:55	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	16:55	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	16:55	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	16:55	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		102		%	12/16/22	16:55	MK	471516
DCBP (S)	SW8082A		48 - 135		98.0		%	12/16/22	16:55	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
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Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	17:48	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	17:48	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	17:48	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	17:48	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		72.5		%	12/17/22	17:48	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		77.9		%	12/17/22	17:48	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
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Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-4-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:20
SDG:

Lab Sample ID: 2212180-008A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	7.72		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:20
SDG:

Lab Sample ID: 2212180-008A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	4:56	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	4:56	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	4:56	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	4:56	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	4:56	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	4:56	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	4:56	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	4:56	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	4:56	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	4:56	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	4:56	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	4:56	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	4:56	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	4:56	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	4:56	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	4:56	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	4:56	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	4:56	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	4:56	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	4:56	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	4:56	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	4:56	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:20
SDG:

Lab Sample ID: 2212180-008A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	4:56	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	4:56	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	4:56	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	4:56	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	4:56	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	4:56	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	4:56	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	4:56	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	4:56	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	4:56	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	4:56	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	4:56	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	4:56	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	4:56	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	4:56	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	4:56	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	4:56	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		71.0		%	12/22/22	4:56	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	71.0	%	12/22/22	4:56	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	52.7	%	12/22/22	4:56	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	74.4	%	12/22/22	4:56	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	75.1	%	12/22/22	4:56	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	88.1	%	12/22/22	4:56	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	ND		mg/Kg	12/16/22	16:29	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	ND		mg/Kg	12/16/22	16:29	SN	471562
			Acceptance Limits								
Pentacosane (S)	SW8015B		45 - 130		109		%	12/16/22	16:29	SN	471562



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:20
SDG:

Lab Sample ID: 2212180-008A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	19:00	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	19:00	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:00	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	19:00	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:00	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	19:00	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	19:00	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	19:00	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	12/15/22 10:59:00AM
Prep Batch ID:	1147485	Prep Analyst:	HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:00	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	19:00	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:00	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:00	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	19:00	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:00	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	19:00	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:00	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	19:00	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		70.9		%	12/15/22	19:00	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		78.3		%	12/15/22	19:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.5		%	12/15/22	19:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-3.0	Lab Sample ID:	2212180-008A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:20		
SDG:			

Prep Method:	5035GRO	Prep Batch Date/Time:	12/15/22	10:59:00AM
Prep Batch ID:	1147488	Prep Analyst:	HVYAS	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	19:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		99.8		%	12/15/22	19:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:15	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	17:01	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	2.93		mg/Kg	12/19/22	17:01	ERR	471558
Barium	SW6020A	1	0.84	1.0	57.8		mg/Kg	12/19/22	17:01	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.289	J	mg/Kg	12/19/22	17:01	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	17:01	ERR	471558
Chromium	SW6020A	1	0.097	1.0	71.5		mg/Kg	12/19/22	17:01	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	12.8		mg/Kg	12/19/22	17:01	ERR	471558
Copper	SW6020A	1	0.17	2.5	7.95		mg/Kg	12/19/22	17:01	ERR	471558
Lead	SW6020A	1	0.054	1.0	4.85		mg/Kg	12/19/22	17:01	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.135	J	mg/Kg	12/19/22	17:01	ERR	471558
Nickel	SW6020A	1	1.2	5.0	50.7		mg/Kg	12/19/22	17:01	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.90		mg/Kg	12/19/22	17:01	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	17:01	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	17:01	ERR	471558
Vanadium	SW6020A	1	0.28	25	51.3		mg/Kg	12/19/22	17:01	ERR	471558
Zinc	SW6020A	1	0.70	2.5	27.6		mg/Kg	12/19/22	17:01	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:30
SDG:

Lab Sample ID: 2212180-009A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	ND		mg/L	01/03/23	12:52	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	17:26	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	17:26	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	17:26	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	17:26	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	17:26	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	17:26	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	17:26	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		105		%	12/16/22	17:26	MK	471516
DCBP (S)	SW8082A		48 - 135		99.0		%	12/16/22	17:26	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	18:27	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	18:27	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	18:27	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	18:27	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		73.3		%	12/17/22	18:27	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		84.6		%	12/17/22	18:27	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	9045C	Prep Batch Date/Time:	12/19/22	12:20:00PM
Prep Batch ID:	1147568	Prep Analyst:	ROME	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	7.50		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	5:23	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	5:23	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	5:23	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	5:23	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	5:23	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	5:23	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	5:23	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	5:23	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	5:23	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	5:23	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	5:23	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	5:23	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	5:23	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	5:23	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	5:23	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	5:23	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	5:23	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	5:23	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	5:23	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	5:23	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	5:23	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	5:23	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:30
SDG:

Lab Sample ID: 2212180-009A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	5:23	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	5:23	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	5:23	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	5:23	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	5:23	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	5:23	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	5:23	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	5:23	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	5:23	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	5:23	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	5:23	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	5:23	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	5:23	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	22.3	J	ug/Kg	12/22/22	5:23	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	5:23	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	5:23	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	5:23	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		71.6		%	12/22/22	5:23	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22	10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C		24 - 113		75.1		%	12/22/22	5:23	MK	471614
2,4,6-Tribromophenol (S)	SW8270C		19 - 122		74.8		%	12/22/22	5:23	MK	471614
2-Fluorobiphenyl (S)	SW8270C		45 - 143		66.2		%	12/22/22	5:23	MK	471614
Nitrobenzene-d5 (S)	SW8270C		23 - 120		74.0		%	12/22/22	5:23	MK	471614
p-Terphenyl-d14 (S)	SW8270C		18 - 137		89.3		%	12/22/22	5:23	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	ND		mg/Kg	12/16/22	19:00	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	ND		mg/Kg	12/16/22	19:00	SN	471562
			Acceptance Limits								
Pentacosane (S)	SW8015B		45 - 130		109		%	12/16/22	19:00	SN	471562



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:30
SDG:

Lab Sample ID: 2212180-009A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	19:30	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	19:30	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:30	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	19:30	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:30	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	19:30	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	19:30	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	19:30	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-4-5.0	Lab Sample ID:	2212180-009A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:30		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Batch ID: 1147485	Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:30	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	19:30	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:30	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	19:30	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	19:30	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	19:30	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	19:30	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	19:30	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	19:30	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		99.3		%	12/15/22	19:30	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		70.4		%	12/15/22	19:30	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		84.0		%	12/15/22	19:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-4-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:30
SDG:

Lab Sample ID: 2212180-009A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	19:30	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		90.6		%	12/15/22	19:30	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-5-1.5	Lab Sample ID:	2212180-010A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:37		
SDG:			

Prep Method: 9010P	Prep Batch Date/Time: 12/17/22 8:00:00AM
Prep Batch ID: 1147517	Prep Analyst: PHUFANO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-5-1.5	Lab Sample ID:	2212180-010A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:37		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	10	0.83	5.0	13		mg/Kg	12/16/22	11:47	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-5-1.5	Lab Sample ID:	2212180-010A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:37		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Batch ID: 1147472	Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Antimony	SW6020A	1	0.12	1.0	2.43		mg/Kg	12/19/22	17:06	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	4.14		mg/Kg	12/19/22	17:06	ERR	471558
Barium	SW6020A	1	0.84	1.0	107		mg/Kg	12/19/22	17:06	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.281	J	mg/Kg	12/19/22	17:06	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	0.224	J	mg/Kg	12/19/22	17:06	ERR	471558
Chromium	SW6020A	1	0.097	1.0	44.3		mg/Kg	12/19/22	17:06	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	9.18		mg/Kg	12/19/22	17:06	ERR	471558
Copper	SW6020A	1	0.17	2.5	15.8		mg/Kg	12/19/22	17:06	ERR	471558
Lead	SW6020A	1	0.054	1.0	473		mg/Kg	12/19/22	17:06	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.331	J	mg/Kg	12/19/22	17:06	ERR	471558
Nickel	SW6020A	1	1.2	5.0	23.3		mg/Kg	12/19/22	17:06	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.57		mg/Kg	12/19/22	17:06	ERR	471558
Silver	SW6020A	1	0.098	0.50	0.104	J	mg/Kg	12/19/22	17:06	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	17:06	ERR	471558
Vanadium	SW6020A	1	0.28	25	38.1		mg/Kg	12/19/22	17:06	ERR	471558
Zinc	SW6020A	1	0.70	2.5	182		mg/Kg	12/19/22	17:06	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-5-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:37
SDG:

Lab Sample ID: 2212180-010A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead (STLC)	SW6010B-STL C	1	0.050	0.20	18.5		mg/L	01/03/23	12:54	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-5-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:37
SDG:

Lab Sample ID: 2212180-010A
Sample Matrix: Soil

Prep Method: 1311/3010A
Prep Batch ID: 1147709

Prep Batch Date/Time: 12/29/22 4:30:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead (TCLP)	SW6010B-TCL P	1	0.050	0.20	ND		mg/L	12/30/22	12:38	AT	471711



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-5-1.5	Lab Sample ID:	2212180-010A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:37		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	18:48	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	18:48	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	18:48	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	18:48	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	18:48	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	18:48	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	18:48	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		93.0		%	12/16/22	18:48	MK	471516
DCBP (S)	SW8082A		48 - 135		89.0		%	12/16/22	18:48	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-5-1.5	Lab Sample ID:	2212180-010A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:37		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	2.5	20	ND		ug/Kg	12/17/22	18:40	LA	471572
gamma-BHC (Lindane)	SW8081B	10	7.1	20	ND		ug/Kg	12/17/22	18:40	LA	471572
beta-BHC	SW8081B	10	4.4	20	ND		ug/Kg	12/17/22	18:40	LA	471572
delta-BHC	SW8081B	10	6.5	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Heptachlor	SW8081B	10	2.7	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Aldrin	SW8081B	10	2.9	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Heptachlor Epoxide	SW8081B	10	3.1	20	ND		ug/Kg	12/17/22	18:40	LA	471572
gamma-Chlordane	SW8081B	10	15	30	ND		ug/Kg	12/17/22	18:40	LA	471572
alpha-Chlordane	SW8081B	10	3.6	20	ND		ug/Kg	12/17/22	18:40	LA	471572
4,4'-DDE	SW8081B	10	6.1	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Endosulfan I	SW8081B	10	2.9	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Dieldrin	SW8081B	10	2.5	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Endrin	SW8081B	10	7.9	20	ND		ug/Kg	12/17/22	18:40	LA	471572
4,4'-DDD	SW8081B	10	6.4	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Endosulfan II	SW8081B	10	3.4	20	ND		ug/Kg	12/17/22	18:40	LA	471572
4,4'-DDT	SW8081B	10	7.4	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Endrin Aldehyde	SW8081B	10	5.1	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Methoxychlor	SW8081B	10	26	60	ND		ug/Kg	12/17/22	18:40	LA	471572
Endosulfan Sulfate	SW8081B	10	5.1	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Endrin Ketone	SW8081B	10	4.3	20	ND		ug/Kg	12/17/22	18:40	LA	471572
Chlordane, Technical	SW8081B	10	27	200	ND		ug/Kg	12/17/22	18:40	LA	471572
Toxaphene	SW8081B	10	220	500	ND		ug/Kg	12/17/22	18:40	LA	471572

Acceptance Limits

Tetrachloro-M-Xylene (S)	SW8081B		48 - 125	80.7	%	12/17/22	18:40	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135	86.4	%	12/17/22	18:40	LA	471572

NOTE: Sample diluted due to the nature of the sample matrix (dark colored extract)



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-5-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:37
SDG:

Lab Sample ID: 2212180-010A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	8.17		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-5-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:37
SDG:

Lab Sample ID: 2212180-010A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	5:51	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	5:51	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	5:51	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	5:51	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	5:51	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	5:51	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	5:51	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	5:51	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	5:51	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	5:51	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	5:51	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	5:51	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Naphthalene	SW8270C	1	10.6	144	26.2	J	ug/Kg	12/22/22	5:51	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	5:51	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	5:51	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	5:51	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	5:51	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	5:51	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	5:51	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	5:51	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	5:51	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	5:51	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	5:51	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-5-1.5	Lab Sample ID:	2212180-010A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:37		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	5:51	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	5:51	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	5:51	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	5:51	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	5:51	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	5:51	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	5:51	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	5:51	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	5:51	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	5:51	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	5:51	MK	471614
Phenanthrene	SW8270C	1	9.32	144	67.3	J	ug/Kg	12/22/22	5:51	MK	471614
Anthracene	SW8270C	1	8.91	144	11.8	J	ug/Kg	12/22/22	5:51	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Fluoranthene	SW8270C	1	10.0	144	72.4	J	ug/Kg	12/22/22	5:51	MK	471614
Benzydine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Pyrene	SW8270C	1	12.0	144	81.1	J	ug/Kg	12/22/22	5:51	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	5:51	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	56.5	J	ug/Kg	12/22/22	5:51	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Chrysene	SW8270C	1	15.2	144	67.7	J	ug/Kg	12/22/22	5:51	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	5:51	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	79.7	J	ug/Kg	12/22/22	5:51	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	26.6	J	ug/Kg	12/22/22	5:51	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	79.0	J	ug/Kg	12/22/22	5:51	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	63.0	J	ug/Kg	12/22/22	5:51	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	5:51	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	63.0	J	ug/Kg	12/22/22	5:51	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	5:51	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		74.6		%	12/22/22	5:51	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-5-1.5	Lab Sample ID:	2212180-010A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:37		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22	10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C		24 - 113		71.4		%	12/22/22	5:51	MK	471614
2,4,6-Tribromophenol (S)	SW8270C		19 - 122		42.9		%	12/22/22	5:51	MK	471614
2-Fluorobiphenyl (S)	SW8270C		45 - 143		72.8		%	12/22/22	5:51	MK	471614
Nitrobenzene-d5 (S)	SW8270C		23 - 120		71.6		%	12/22/22	5:51	MK	471614
p-Terphenyl-d14 (S)	SW8270C		18 - 137		82.1		%	12/22/22	5:51	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-5-1.5	Lab Sample ID:	2212180-010A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:37		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	3.79	x	mg/Kg	12/16/22	16:54	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	17.5		mg/Kg	12/16/22	16:54	SN	471562
Acceptance Limits											
Pentacosane (S)	SW8015B		45 - 130		95.3		%	12/16/22	16:54	SN	471562

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-5-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:37
SDG:

Lab Sample ID: 2212180-010A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	20:00	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:00	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:00	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	20:00	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:00	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:00	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:00	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:00	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-5-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:37
SDG:

Lab Sample ID: 2212180-010A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:00	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	20:00	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:00	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:00	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:00	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:00	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:00	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:00	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	20:00	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		72.3		%	12/15/22	20:00	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		77.0		%	12/15/22	20:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.7		%	12/15/22	20:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-5-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:37
SDG:

Lab Sample ID: 2212180-010A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	20:00	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		106		%	12/15/22	20:00	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-6-2.0	Lab Sample ID:	2212180-011A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:45		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-6-2.0	Lab Sample ID:	2212180-011A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:45		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:19	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-2.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:45
SDG:

Lab Sample ID: 2212180-011A
Sample Matrix: Soil

Prep Method: 6020S-P
Prep Batch ID: 1147472

Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	17:11	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	4.14		mg/Kg	12/19/22	17:11	ERR	471558
Barium	SW6020A	1	0.84	1.0	121		mg/Kg	12/19/22	17:11	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.395	J	mg/Kg	12/19/22	17:11	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	17:11	ERR	471558
Chromium	SW6020A	1	0.097	1.0	89.7		mg/Kg	12/19/22	17:11	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	11.5		mg/Kg	12/19/22	17:11	ERR	471558
Copper	SW6020A	1	0.17	2.5	10.5		mg/Kg	12/19/22	17:11	ERR	471558
Lead	SW6020A	1	0.054	1.0	5.81		mg/Kg	12/19/22	17:11	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.197	J	mg/Kg	12/19/22	17:11	ERR	471558
Nickel	SW6020A	1	1.2	5.0	51.7		mg/Kg	12/19/22	17:11	ERR	471558
Selenium	SW6020A	1	0.035	1.0	2.55		mg/Kg	12/19/22	17:11	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	17:11	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	17:11	ERR	471558
Vanadium	SW6020A	1	0.28	25	61.4		mg/Kg	12/19/22	17:11	ERR	471558
Zinc	SW6020A	1	0.70	2.5	28.5		mg/Kg	12/19/22	17:11	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-2.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:45
SDG:

Lab Sample ID: 2212180-011A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	ND		mg/L	01/03/23	12:55	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-2.0	Lab Sample ID:	2212180-011A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:45		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	19:04	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	19:04	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	19:04	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	19:04	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	19:04	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	19:04	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	19:04	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		93.0		%	12/16/22	19:04	MK	471516
DCBP (S)	SW8082A		48 - 135		90.0		%	12/16/22	19:04	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-2.0	Lab Sample ID:	2212180-011A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:45		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	18:52	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	18:52	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	18:52	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	18:52	LA	471572

Acceptance Limits

Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		67.7		%	12/17/22	18:52	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		71.2		%	12/17/22	18:52	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-2.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:45
SDG:

Lab Sample ID: 2212180-011A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	8.07		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-2.0	Lab Sample ID:	2212180-011A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:45		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	5:52	torrent	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	5:52	torrent	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	5:52	torrent	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	5:52	torrent	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-2.0	Lab Sample ID:	2212180-011A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:45		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	5:52	torrent	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	5:52	torrent	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	5:52	torrent	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	5:52	torrent	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	5:52	torrent	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	5:52	torrent	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	5:52	torrent	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	5:52	torrent	471614

Acceptance Limits

2-Fluorophenol (S)	SW8270C		25 - 121		59.6		%	12/22/22	5:52	torrent	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-2.0	Lab Sample ID:	2212180-011A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:45		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	62.8	%	12/22/22	5:52	torrent	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	54.9	%	12/22/22	5:52	torrent	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	68.3	%	12/22/22	5:52	torrent	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	51.6	%	12/22/22	5:52	torrent	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	90.1	%	12/22/22	5:52	torrent	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-2.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:45
SDG:

Lab Sample ID: 2212180-011A
Sample Matrix: Soil

Prep Method: 3546_TPH
Prep Batch ID: 1147438

Prep Batch Date/Time: 12/15/22 11:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	ND		mg/Kg	12/16/22	17:19	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	5.82		mg/Kg	12/16/22	17:19	SN	471562
Acceptance Limits					108		%	12/16/22	17:19	SN	471562
Pentacosane (S)	SW8015B		45 - 130								



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-2.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:45
SDG:

Lab Sample ID: 2212180-011A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	20:29	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:29	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:29	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	20:29	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:29	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:29	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:29	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:29	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-2.0	Lab Sample ID:	2212180-011A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:45		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Batch ID: 1147485	Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:29	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	20:29	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:29	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:29	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:29	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:29	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:29	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:29	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	20:29	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		68.0		%	12/15/22	20:29	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		78.6		%	12/15/22	20:29	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		80.2		%	12/15/22	20:29	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-2.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:45
SDG:

Lab Sample ID: 2212180-011A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	20:29	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		98.7		%	12/15/22	20:29	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-6-3.5	Lab Sample ID:	2212180-012A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: 7471BP
Prep Batch ID: 1147466

Prep Batch Date/Time: 12/15/22 6:45:00PM
Prep Analyst: TNGO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:21	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: 6020S-P
Prep Batch ID: 1147472

Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	17:16	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.71		mg/Kg	12/19/22	17:16	ERR	471558
Barium	SW6020A	1	0.84	1.0	50.7		mg/Kg	12/19/22	17:16	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.246	J	mg/Kg	12/19/22	17:16	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	17:16	ERR	471558
Chromium	SW6020A	1	0.097	1.0	103		mg/Kg	12/19/22	17:16	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	6.20		mg/Kg	12/19/22	17:16	ERR	471558
Copper	SW6020A	1	0.17	2.5	6.80		mg/Kg	12/19/22	17:16	ERR	471558
Lead	SW6020A	1	0.054	1.0	2.45		mg/Kg	12/19/22	17:16	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	ND		mg/Kg	12/19/22	17:16	ERR	471558
Nickel	SW6020A	1	1.2	5.0	56.1		mg/Kg	12/19/22	17:16	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.91		mg/Kg	12/19/22	17:16	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	17:16	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	17:16	ERR	471558
Vanadium	SW6020A	1	0.28	25	59.5		mg/Kg	12/19/22	17:16	ERR	471558
Zinc	SW6020A	1	0.70	2.5	23.9		mg/Kg	12/19/22	17:16	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	ND		mg/L	01/03/23	12:57	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: 3546_PCB
Prep Batch ID: 1147440

Prep Batch Date/Time: 12/15/22 11:46:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	19:20	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	19:20	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	19:20	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	19:20	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	19:20	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	19:20	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	19:20	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		101		%	12/16/22	19:20	MK	471516
DCBP (S)	SW8082A		48 - 135		98.0		%	12/16/22	19:20	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-3.5	Lab Sample ID:	2212180-012A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	19:07	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	19:07	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	19:07	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	19:07	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		73.9		%	12/17/22	19:07	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		79.7		%	12/17/22	19:07	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	7.50		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-6-3.5	Lab Sample ID:	2212180-012A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method: 3546_BNA	Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Batch ID: 1147435	Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	6:48	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	6:48	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	6:48	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	6:48	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	6:48	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	6:48	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	6:48	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	6:48	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	6:48	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	6:48	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	6:48	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	6:48	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	6:48	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	6:48	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	6:48	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	6:48	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	6:48	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	6:48	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	6:48	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	6:48	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	6:48	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	6:48	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	6:48	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	6:48	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	6:48	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	6:48	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	6:48	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	6:48	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	6:48	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	6:48	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	6:48	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	6:48	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	6:48	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	6:48	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	6:48	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	6:48	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	6:48	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	6:48	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	6:48	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		72.5		%	12/22/22	6:48	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-6-3.5	Lab Sample ID:	2212180-012A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C		24 - 113		72.8		%	12/22/22	6:48	MK	471614
2,4,6-Tribromophenol (S)	SW8270C		19 - 122		54.8		%	12/22/22	6:48	MK	471614
2-Fluorobiphenyl (S)	SW8270C		45 - 143		74.8		%	12/22/22	6:48	MK	471614
Nitrobenzene-d5 (S)	SW8270C		23 - 120		66.3		%	12/22/22	6:48	MK	471614
p-Terphenyl-d14 (S)	SW8270C		18 - 137		81.8		%	12/22/22	6:48	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: 3546_TPH
Prep Batch ID: 1147438

Prep Batch Date/Time: 12/15/22 11:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	ND		mg/Kg	12/16/22	19:25	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	ND		mg/Kg	12/16/22	19:25	SN	471562
Acceptance Limits					118		%	12/16/22	19:25	SN	471562
Pentacosane (S)	SW8015B		45 - 130								



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147485

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HYYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	20:59	HV	471486
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:59	HV	471486
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:59	HV	471486
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	20:59	HV	471486
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:59	HV	471486
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:59	HV	471486
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:59	HV	471486
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:59	HV	471486
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-3.5	Lab Sample ID:	2212180-012A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Batch ID: 1147485	Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:59	HV	471486
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	20:59	HV	471486
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:59	HV	471486
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:59	HV	471486
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:59	HV	471486
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:59	HV	471486
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:59	HV	471486
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:59	HV	471486
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	20:59	HV	471486
(S) Dibromofluoromethane	SW8260B		59.8 - 148		72.7		%	12/15/22	20:59	HV	471486
(S) Toluene-d8	SW8260B		55.2 - 133		72.8		%	12/15/22	20:59	HV	471486
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		78.1		%	12/15/22	20:59	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-3.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-012A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147488

Prep Batch Date/Time: 12/15/22 10:59:00AM
Prep Analyst: HVYAS

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	20:59	HV	471486
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		98.4		%	12/15/22	20:59	HV	471486



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-5.0	Lab Sample ID:	2212180-013A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:55		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:55
SDG:

Lab Sample ID: 2212180-013A
Sample Matrix: Soil

Prep Method: 7471BP
Prep Batch ID: 1147466

Prep Batch Date/Time: 12/15/22 6:45:00PM
Prep Analyst: TNGO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:23	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-6-5.0	Lab Sample ID:	2212180-013A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:55		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Batch ID: 1147472	Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
<i>The results shown below are reported using their MDL.</i>											
Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	17:21	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.61		mg/Kg	12/19/22	17:21	ERR	471558
Barium	SW6020A	1	0.84	1.0	35.4		mg/Kg	12/19/22	17:21	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.235	J	mg/Kg	12/19/22	17:21	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	17:21	ERR	471558
Chromium	SW6020A	1	0.097	1.0	96.2		mg/Kg	12/19/22	17:21	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	6.61		mg/Kg	12/19/22	17:21	ERR	471558
Copper	SW6020A	1	0.17	2.5	7.22		mg/Kg	12/19/22	17:21	ERR	471558
Lead	SW6020A	1	0.054	1.0	3.11		mg/Kg	12/19/22	17:21	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	ND		mg/Kg	12/19/22	17:21	ERR	471558
Nickel	SW6020A	1	1.2	5.0	54.0		mg/Kg	12/19/22	17:21	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.73		mg/Kg	12/19/22	17:21	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	17:21	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	17:21	ERR	471558
Vanadium	SW6020A	1	0.28	25	56.6		mg/Kg	12/19/22	17:21	ERR	471558
Zinc	SW6020A	1	0.70	2.5	24.0		mg/Kg	12/19/22	17:21	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:55
SDG:

Lab Sample ID: 2212180-013A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	0.438		mg/L	01/03/23	12:58	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-5.0	Lab Sample ID:	2212180-013A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:55		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	19:37	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	19:37	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	19:37	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	19:37	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	19:37	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	19:37	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	19:37	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		97.0		%	12/16/22	19:37	MK	471516
DCBP (S)	SW8082A		48 - 135		96.0		%	12/16/22	19:37	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-5.0	Lab Sample ID:	2212180-013A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:55		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	19:19	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	19:19	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	19:19	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	19:19	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		70.9		%	12/17/22	19:19	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		76.5		%	12/17/22	19:19	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:55
SDG:

Lab Sample ID: 2212180-013A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	7.25		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:55
SDG:

Lab Sample ID: 2212180-013A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	7:16	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	7:16	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	7:16	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	7:16	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	7:16	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	7:16	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	7:16	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	7:16	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	7:16	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	7:16	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	7:16	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	7:16	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	7:16	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	7:16	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	7:16	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	7:16	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	7:16	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	7:16	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	7:16	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	7:16	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	7:16	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	7:16	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-6-5.0	Lab Sample ID:	2212180-013A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:55		
SDG:			

Prep Method: 3546_BNA	Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Batch ID: 1147435	Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	7:16	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	7:16	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	7:16	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	7:16	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	7:16	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	7:16	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	7:16	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	7:16	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	7:16	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	7:16	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	7:16	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Benzydine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	7:16	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	7:16	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	7:16	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	7:16	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	7:16	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	7:16	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		58.7		%	12/22/22	7:16	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-6-5.0	Lab Sample ID:	2212180-013A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:55		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	58.4	%	12/22/22	7:16	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	47.8	%	12/22/22	7:16	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	56.7	%	12/22/22	7:16	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	54.8	%	12/22/22	7:16	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	69.1	%	12/22/22	7:16	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-6-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:55
SDG:

Lab Sample ID: 2212180-013A
Sample Matrix: Soil

Prep Method: 3546_TPH
Prep Batch ID: 1147438

Prep Batch Date/Time: 12/15/22 11:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	ND		mg/Kg	12/16/22	19:49	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	6.38		mg/Kg	12/16/22	19:49	SN	471562
Acceptance Limits					111		%	12/16/22	19:49	SN	471562
Pentacosane (S)	SW8015B		45 - 130								



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-6-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:55
SDG:

Lab Sample ID: 2212180-013A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147461

Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	20:04	JZ	471460
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-5.0	Lab Sample ID:	2212180-013A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:55		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Batch ID: 1147461	Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:04	JZ	471460
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	20:04	JZ	471460
(S) Dibromofluoromethane	SW8260B		59.8 - 148		104		%	12/15/22	20:04	JZ	471460
(S) Toluene-d8	SW8260B		55.2 - 133		98.1		%	12/15/22	20:04	JZ	471460
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		107		%	12/15/22	20:04	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-6-5.0	Lab Sample ID:	2212180-013A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:55		
SDG:			

Prep Method:	5035GRO	Prep Batch Date/Time:	12/15/22	11:09:00AM
Prep Batch ID:	1147462	Prep Analyst:	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	20:04	JZ	471460
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		103		%	12/15/22	20:04	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	12/15/22	6:45:00PM
Prep Batch ID:	1147466	Prep Analyst:	TNGO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

<i>The results shown below are reported using their MDL.</i>											
Mercury	SW7471B	1	0.083	0.50	0.99		mg/Kg	12/16/22	11:30	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Antimony	SW6020A	1	0.12	1.0	0.534	J	mg/Kg	12/19/22	17:26	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.64		mg/Kg	12/19/22	17:26	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.294	J	mg/Kg	12/19/22	17:26	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	0.0960	J	mg/Kg	12/19/22	17:26	ERR	471558
Chromium	SW6020A	1	0.097	1.0	49.2		mg/Kg	12/19/22	17:26	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	8.85		mg/Kg	12/19/22	17:26	ERR	471558
Copper	SW6020A	1	0.17	2.5	141		mg/Kg	12/19/22	17:26	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.320	J	mg/Kg	12/19/22	17:26	ERR	471558
Nickel	SW6020A	1	1.2	5.0	20.9		mg/Kg	12/19/22	17:26	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.72		mg/Kg	12/19/22	17:26	ERR	471558
Silver	SW6020A	1	0.098	0.50	1.70		mg/Kg	12/19/22	17:26	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	17:26	ERR	471558
Vanadium	SW6020A	1	0.28	25	32.9		mg/Kg	12/19/22	17:26	ERR	471558
Zinc	SW6020A	1	0.70	2.5	204		mg/Kg	12/19/22	17:26	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-7-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-014A
Sample Matrix: Soil

Prep Method: 6020S-P
Prep Batch ID: 1147472

Prep Batch Date/Time: 12/16/22 10:45:00AM
Prep Analyst: ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Barium	SW6020A	2	1.7	2.0	576		mg/Kg	12/20/22	16:04	ERR	471601
Lead	SW6020A	2	0.11	2.0	846		mg/Kg	12/20/22	16:04	ERR	471601



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	WET/3010B	Prep Batch Date/Time:	12/30/22 12:50:00PM
Prep Batch ID:	1147721	Prep Analyst:	ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Copper (STLC)	SW6010B-STL C	1	0.020	0.20	13.1		mg/L	01/03/23	13:03	AT	471719
Lead (STLC)	SW6010B-STL C	1	0.050	0.20	72.7		mg/L	01/03/23	13:03	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	1311/3010A	Prep Batch Date/Time:	12/29/22	4:30:00PM
Prep Batch ID:	1147709	Prep Analyst:	ATRUONG	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead (TCLP)	SW6010B-TCL P	1	0.050	0.20	0.873		mg/L	12/30/22	12:40	AT	471711



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	19:53	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	19:53	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	19:53	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	19:53	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	19:53	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	19:53	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	19:53	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		95.0		%	12/16/22	19:53	MK	471516
DCBP (S)	SW8082A		48 - 135		95.0		%	12/16/22	19:53	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	19:33	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	19:33	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	19:33	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	19:33	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		69.2		%	12/17/22	19:33	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		74.8		%	12/17/22	19:33	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-014A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	8.19		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	7:44	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	7:44	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	7:44	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	7:44	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	7:44	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	7:44	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	7:44	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	7:44	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	7:44	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	7:44	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	7:44	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	7:44	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	7:44	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	7:44	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	7:44	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	7:44	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	7:44	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	7:44	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	7:44	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	7:44	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	7:44	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	7:44	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-014A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	7:44	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	7:44	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	7:44	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	7:44	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	7:44	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	7:44	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	7:44	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	7:44	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	7:44	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	7:44	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	7:44	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Benzydine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Pyrene	SW8270C	1	12.0	144	16.8	J	ug/Kg	12/22/22	7:44	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	7:44	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	7:44	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	313	J	ug/Kg	12/22/22	7:44	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	7:44	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	7:44	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	7:44	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		47.0		%	12/22/22	7:44	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-7-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-014A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	51.5	%	12/22/22	7:44	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	41.4	%	12/22/22	7:44	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	53.4	%	12/22/22	7:44	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	46.3	%	12/22/22	7:44	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	78.7	%	12/22/22	7:44	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	2.51	x	mg/Kg	12/16/22	20:14	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	22.4		mg/Kg	12/16/22	20:14	SN	471562
Acceptance Limits											
Pentacosane (S)	SW8015B		45 - 130		106		%	12/16/22	20:14	SN	471562

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-014A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147461

Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	20:34	JZ	471460
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-1.5	Lab Sample ID:	2212180-014A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:50		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Batch ID: 1147461	Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	20:34	JZ	471460
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	20:34	JZ	471460
(S) Dibromofluoromethane	SW8260B		59.8 - 148		106		%	12/15/22	20:34	JZ	471460
(S) Toluene-d8	SW8260B		55.2 - 133		109		%	12/15/22	20:34	JZ	471460
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		119		%	12/15/22	20:34	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-1.5
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:50
SDG:

Lab Sample ID: 2212180-014A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147462

Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	20:34	JZ	471460
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		80.9		%	12/15/22	20:34	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-7-3.0	Lab Sample ID:	2212180-015A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:57		
SDG:			

Prep Method:	9010P	Prep Batch Date/Time:	12/17/22	8:00:00AM
Prep Batch ID:	1147517	Prep Analyst:	PHUFANO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-7-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:57
SDG:

Lab Sample ID: 2212180-015A
Sample Matrix: Soil

Prep Method: 7471BP
Prep Batch ID: 1147466

Prep Batch Date/Time: 12/15/22 6:45:00PM
Prep Analyst: TNGO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:32	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-3.0	Lab Sample ID:	2212180-015A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:57		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	17:31	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.25		mg/Kg	12/19/22	17:31	ERR	471558
Barium	SW6020A	1	0.84	1.0	70.6		mg/Kg	12/19/22	17:31	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.399	J	mg/Kg	12/19/22	17:31	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	17:31	ERR	471558
Chromium	SW6020A	1	0.097	1.0	75.5		mg/Kg	12/19/22	17:31	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	4.35		mg/Kg	12/19/22	17:31	ERR	471558
Copper	SW6020A	1	0.17	2.5	10.1		mg/Kg	12/19/22	17:31	ERR	471558
Lead	SW6020A	1	0.054	1.0	6.21		mg/Kg	12/19/22	17:31	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	0.262	J	mg/Kg	12/19/22	17:31	ERR	471558
Nickel	SW6020A	1	1.2	5.0	22.1		mg/Kg	12/19/22	17:31	ERR	471558
Selenium	SW6020A	1	0.035	1.0	2.24		mg/Kg	12/19/22	17:31	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	17:31	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	17:31	ERR	471558
Vanadium	SW6020A	1	0.28	25	50.8		mg/Kg	12/19/22	17:31	ERR	471558
Zinc	SW6020A	1	0.70	2.5	20.5		mg/Kg	12/19/22	17:31	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-7-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:57
SDG:

Lab Sample ID: 2212180-015A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	ND		mg/L	01/03/23	13:05	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-3.0	Lab Sample ID:	2212180-015A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:57		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	20:10	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	20:10	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	20:10	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	20:10	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	20:10	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	20:10	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	20:10	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		88.0		%	12/16/22	20:10	MK	471516
DCBP (S)	SW8082A		48 - 135		85.0		%	12/16/22	20:10	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-3.0	Lab Sample ID:	2212180-015A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:57		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	19:46	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	19:46	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	19:46	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	19:46	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		63.8		%	12/17/22	19:46	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		67.8		%	12/17/22	19:46	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:57
SDG:

Lab Sample ID: 2212180-015A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	7.40		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-3.0	Lab Sample ID:	2212180-015A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:57		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	6:21	torrent	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:57
SDG:

Lab Sample ID: 2212180-015A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	6:21	torrent	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	6:21	torrent	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	6:21	torrent	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		46.9		%	12/22/22	6:21	torrent	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-7-3.0	Lab Sample ID:	2212180-015A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:57		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	53.8	%	12/22/22	6:21	torrent	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	57.8	%	12/22/22	6:21	torrent	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	58.7	%	12/22/22	6:21	torrent	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	42.6	%	12/22/22	6:21	torrent	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	87.7	%	12/22/22	6:21	torrent	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-3.0	Lab Sample ID:	2212180-015A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:57		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	ND		mg/Kg	12/16/22	20:39	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	6.32		mg/Kg	12/16/22	20:39	SN	471562
			Acceptance Limits								
Pentacosane (S)	SW8015B		45 - 130		104		%	12/16/22	20:39	SN	471562



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:57
SDG:

Lab Sample ID: 2212180-015A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147461

Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	21:05	JZ	471460
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-3.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 21:57
SDG:

Lab Sample ID: 2212180-015A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147461

Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:05	JZ	471460
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	21:05	JZ	471460
(S) Dibromofluoromethane	SW8260B		59.8 - 148		107		%	12/15/22	21:05	JZ	471460
(S) Toluene-d8	SW8260B		55.2 - 133		97.1		%	12/15/22	21:05	JZ	471460
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		111		%	12/15/22	21:05	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-7-3.0	Lab Sample ID:	2212180-015A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 21:57		
SDG:			

Prep Method:	5035GRO	Prep Batch Date/Time:	12/15/22	11:09:00AM
Prep Batch ID:	1147462	Prep Analyst:	JZHAO	

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	21:05	JZ	471460
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		103		%	12/15/22	21:05	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-7-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:10
SDG:

Lab Sample ID: 2212180-016A
Sample Matrix: Soil

Prep Method: 9010P
Prep Batch ID: 1147517

Prep Batch Date/Time: 12/17/22 8:00:00AM
Prep Analyst: PHUFANO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Cyanide, Total	SW9014	1	0.24	1.5	ND		mg/Kg	12/17/22	14:36	PH	471507



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-7-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:10
SDG:

Lab Sample ID: 2212180-016A
Sample Matrix: Soil

Prep Method: 7471BP
Prep Batch ID: 1147466

Prep Batch Date/Time: 12/15/22 6:45:00PM
Prep Analyst: TNGO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	12/16/22	11:34	BJAY	471519



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-5.0	Lab Sample ID:	2212180-016A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:10		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	12/16/22 10:45:00AM
Prep Batch ID:	1147472	Prep Analyst:	ERAGUDO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Antimony	SW6020A	1	0.12	1.0	ND		mg/Kg	12/19/22	17:45	ERR	471558
Arsenic	SW6020A	1	0.21	1.0	3.13		mg/Kg	12/19/22	17:45	ERR	471558
Barium	SW6020A	1	0.84	1.0	98.6		mg/Kg	12/19/22	17:45	ERR	471558
Beryllium	SW6020A	1	0.16	1.0	0.345	J	mg/Kg	12/19/22	17:45	ERR	471558
Cadmium	SW6020A	1	0.084	1.0	ND		mg/Kg	12/19/22	17:45	ERR	471558
Chromium	SW6020A	1	0.097	1.0	84.5		mg/Kg	12/19/22	17:45	ERR	471558
Cobalt	SW6020A	1	0.21	1.0	8.05		mg/Kg	12/19/22	17:45	ERR	471558
Copper	SW6020A	1	0.17	2.5	7.97		mg/Kg	12/19/22	17:45	ERR	471558
Lead	SW6020A	1	0.054	1.0	10.9		mg/Kg	12/19/22	17:45	ERR	471558
Molybdenum	SW6020A	1	0.13	1.0	ND		mg/Kg	12/19/22	17:45	ERR	471558
Nickel	SW6020A	1	1.2	5.0	42.5		mg/Kg	12/19/22	17:45	ERR	471558
Selenium	SW6020A	1	0.035	1.0	1.90		mg/Kg	12/19/22	17:45	ERR	471558
Silver	SW6020A	1	0.098	0.50	ND		mg/Kg	12/19/22	17:45	ERR	471558
Thallium	SW6020A	1	0.34	5.0	ND		mg/Kg	12/19/22	17:45	ERR	471558
Vanadium	SW6020A	1	0.28	25	56.3		mg/Kg	12/19/22	17:45	ERR	471558
Zinc	SW6020A	1	0.70	2.5	26.0		mg/Kg	12/19/22	17:45	ERR	471558



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID: LB-7-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:10
SDG:

Lab Sample ID: 2212180-016A
Sample Matrix: Soil

Prep Method: WET/3010B
Prep Batch ID: 1147721

Prep Batch Date/Time: 12/30/22 12:50:00PM
Prep Analyst: ATRUONG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B-STLC	1	0.010	0.20	ND		mg/L	01/03/23	13:10	AT	471719



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-5.0	Lab Sample ID:	2212180-016A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:10		
SDG:			

Prep Method:	3546_PCB	Prep Batch Date/Time:	12/15/22 11:46:00AM
Prep Batch ID:	1147440	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Aroclor1016	SW8082A	1	35.0	100	ND		ug/Kg	12/16/22	20:26	MK	471516
Aroclor1221	SW8082A	1	5.00	100	ND		ug/Kg	12/16/22	20:26	MK	471516
Aroclor1232	SW8082A	1	17.0	100	ND		ug/Kg	12/16/22	20:26	MK	471516
Aroclor1242	SW8082A	1	3.00	100	ND		ug/Kg	12/16/22	20:26	MK	471516
Aroclor1248	SW8082A	1	2.00	100	ND		ug/Kg	12/16/22	20:26	MK	471516
Aroclor1254	SW8082A	1	14.0	100	ND		ug/Kg	12/16/22	20:26	MK	471516
Aroclor1260	SW8082A	1	24.0	100	ND		ug/Kg	12/16/22	20:26	MK	471516
Acceptance Limits											
TCMX (S)	SW8082A		48 - 125		91.0		%	12/16/22	20:26	MK	471516
DCBP (S)	SW8082A		48 - 135		89.0		%	12/16/22	20:26	MK	471516



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-5.0	Lab Sample ID:	2212180-016A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:10		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	12/16/22 11:32:00AM
Prep Batch ID:	1147477	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

alpha-BHC	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
gamma-BHC (Lindane)	SW8081B	1	0.71	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
beta-BHC	SW8081B	1	0.44	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
delta-BHC	SW8081B	1	0.65	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Heptachlor	SW8081B	1	0.27	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Aldrin	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Heptachlor Epoxide	SW8081B	1	0.31	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
gamma-Chlordane	SW8081B	1	1.5	3.0	ND		ug/Kg	12/17/22	20:00	LA	471572
alpha-Chlordane	SW8081B	1	0.36	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
4,4'-DDE	SW8081B	1	0.61	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Endosulfan I	SW8081B	1	0.29	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Dieldrin	SW8081B	1	0.25	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Endrin	SW8081B	1	0.79	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
4,4'-DDD	SW8081B	1	0.64	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Endosulfan II	SW8081B	1	0.34	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
4,4'-DDT	SW8081B	1	0.74	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Endrin Aldehyde	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Methoxychlor	SW8081B	1	2.6	6.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Endosulfan Sulfate	SW8081B	1	0.51	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Endrin Ketone	SW8081B	1	0.43	2.0	ND		ug/Kg	12/17/22	20:00	LA	471572
Chlordane, Technical	SW8081B	1	2.7	20	ND		ug/Kg	12/17/22	20:00	LA	471572
Toxaphene	SW8081B	1	22	50	ND		ug/Kg	12/17/22	20:00	LA	471572
Acceptance Limits											
Tetrachloro-M-Xylene (S)	SW8081B		48 - 125		70.6		%	12/17/22	20:00	LA	471572
Decachlorobiphenyl (S)	SW8081B		38 - 135		78.4		%	12/17/22	20:00	LA	471572



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:10
SDG:

Lab Sample ID: 2212180-016A
Sample Matrix: Soil

Prep Method: 9045C
Prep Batch ID: 1147568

Prep Batch Date/Time: 12/19/22 12:20:00PM
Prep Analyst: ROME

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
pH in Soil	SW9045D	1	0.10	2.00	7.12		SU	12/19/22	12:20	RE	471547



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:10
SDG:

Lab Sample ID: 2212180-016A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

N-Nitrosodimethylamine	SW8270C	1	46.9	720	ND		ug/Kg	12/22/22	8:40	MK	471614
Phenol	SW8270C	1	43.8	288	ND		ug/Kg	12/22/22	8:40	MK	471614
Bis(2-chloroethyl)ether	SW8270C	1	13.3	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2-Chlorophenol	SW8270C	1	47.7	288	ND		ug/Kg	12/22/22	8:40	MK	471614
1,3-Dichlorobenzene	SW8270C	1	13.1	144	ND		ug/Kg	12/22/22	8:40	MK	471614
1,4-Dichlorobenzene	SW8270C	1	14.6	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Benzyl Alcohol	SW8270C	1	20.5	288	ND		ug/Kg	12/22/22	8:40	MK	471614
1,2-Dichlorobenzene	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2-Methylphenol (o-Cresol)	SW8270C	1	29.3	288	ND		ug/Kg	12/22/22	8:40	MK	471614
N-Methyl-2-Pyrrolidone (NMP)	SW8270C	1	68.0	720	ND		ug/Kg	12/22/22	8:40	MK	471614
3-/4-Methylphenol (p-/m-Cresol)	SW8270C	1	31.3	288	ND		ug/Kg	12/22/22	8:40	MK	471614
N-nitroso-di-n-propylamine	SW8270C	1	13.2	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Hexachloroethane	SW8270C	1	17.1	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Nitrobenzene	SW8270C	1	12.8	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Isophorone	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2-Nitrophenol	SW8270C	1	25.4	288	ND		ug/Kg	12/22/22	8:40	MK	471614
2,4-Dimethylphenol	SW8270C	1	22.8	288	ND		ug/Kg	12/22/22	8:40	MK	471614
Benzoic Acid	SW8270C	1	41.7	288	ND		ug/Kg	12/22/22	8:40	MK	471614
Bis(2-Chloroethoxy)methane	SW8270C	1	9.79	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Bis(2-chloroisopropyl)ether	SW8270C	1	12.6	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2,4-Dichlorophenol	SW8270C	1	39.3	288	ND		ug/Kg	12/22/22	8:40	MK	471614
1,2,4-Trichlorobenzene	SW8270C	1	11.8	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Naphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2,6-Dichlorophenol	SW8270C	1	35.8	288	ND		ug/Kg	12/22/22	8:40	MK	471614
Hexachloro-1,3-butadiene	SW8270C	1	8.34	144	ND		ug/Kg	12/22/22	8:40	MK	471614
4-Chloro-3-methylphenol	SW8270C	1	33.8	288	ND		ug/Kg	12/22/22	8:40	MK	471614
2-Methylnaphthalene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	8:40	MK	471614
1-Methylnaphthalene	SW8270C	1	12.2	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Hexachlorocyclopentadiene	SW8270C	1	12.9	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2,4,6-Trichlorophenol	SW8270C	1	35.9	288	ND		ug/Kg	12/22/22	8:40	MK	471614
2,4,5-Trichlorophenol	SW8270C	1	33.4	288	ND		ug/Kg	12/22/22	8:40	MK	471614
2-Chloronaphthalene	SW8270C	1	10.6	144	ND		ug/Kg	12/22/22	8:40	MK	471614
1,4-Dinitrobenzene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Dimethyl phthalate	SW8270C	1	14.2	720	ND		ug/Kg	12/22/22	8:40	MK	471614
1,3-Dinitrobenzene	SW8270C	1	10.4	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Acenaphthylene	SW8270C	1	8.28	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2,6-Dinitrotoluene	SW8270C	1	11.3	144	ND		ug/Kg	12/22/22	8:40	MK	471614
1,2-Dinitrobenzene	SW8270C	1	15.8	144	ND		ug/Kg	12/22/22	8:40	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:10
SDG:

Lab Sample ID: 2212180-016A
Sample Matrix: Soil

Prep Method: 3546_BNA
Prep Batch ID: 1147435

Prep Batch Date/Time: 12/15/22 10:23:00AM
Prep Analyst: AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Acenaphthene	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2,4-Dinitrophenol	SW8270C	1	77.6	720	ND		ug/Kg	12/22/22	8:40	MK	471614
4-Nitrophenol	SW8270C	1	54.7	720	ND		ug/Kg	12/22/22	8:40	MK	471614
Dibenzofuran	SW8270C	1	11.2	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2,4-Dinitrotoluene	SW8270C	1	12.1	144	ND		ug/Kg	12/22/22	8:40	MK	471614
2,3,5,6-Tetrachlorophenol	SW8270C	1	27.6	288	ND		ug/Kg	12/22/22	8:40	MK	471614
2,3,4,6-Tetrachlorophenol	SW8270C	1	31.5	288	ND		ug/Kg	12/22/22	8:40	MK	471614
Diethylphthalate	SW8270C	1	13.6	720	ND		ug/Kg	12/22/22	8:40	MK	471614
Fluorene	SW8270C	1	10.3	144	ND		ug/Kg	12/22/22	8:40	MK	471614
4-Chlorophenyl-phenylether	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	8:40	MK	471614
4,6-Dinitro-2-methylphenol	SW8270C	1	13.4	288	ND		ug/Kg	12/22/22	8:40	MK	471614
Diphenylamine	SW8270C	1	13.0	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Azobenzene	SW8270C	1	114	144	ND		ug/Kg	12/22/22	8:40	MK	471614
4-Bromophenyl-phenylether	SW8270C	1	8.23	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Hexachlorobenzene	SW8270C	1	8.66	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Pentachlorophenol	SW8270C	1	25.0	288	ND		ug/Kg	12/22/22	8:40	MK	471614
Phenanthrene	SW8270C	1	9.32	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Anthracene	SW8270C	1	8.91	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Carbazole	SW8270C	1	10.7	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Di-n-butylphthalate	SW8270C	1	13.5	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Fluoranthene	SW8270C	1	10.0	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Benzidine	SW8270C	1	147	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Pyrene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Butylbenzylphthalate	SW8270C	1	21.0	720	ND		ug/Kg	12/22/22	8:40	MK	471614
Benzo(a)anthracene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	8:40	MK	471614
3,3-Dichlorobenzidine	SW8270C	1	118	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Chrysene	SW8270C	1	15.2	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Bis(2-Ethylhexyl)phthalate	SW8270C	1	15.3	720	ND		ug/Kg	12/22/22	8:40	MK	471614
Di-n-Octylphthalate	SW8270C	1	12.3	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Benzo(b)fluorathene	SW8270C	1	12.0	144	ND		ug/Kg	12/22/22	8:40	MK	471614
benzo(k)fluorathene	SW8270C	1	8.16	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Benzo(a)pyrene	SW8270C	1	9.80	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Indeno(1,2,3-c,d)pyrene	SW8270C	1	13.8	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Dibenzo(a,h)anthracene	SW8270C	1	12.7	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Benzo(g,h,i)perylene	SW8270C	1	16.7	144	ND		ug/Kg	12/22/22	8:40	MK	471614
Pyridine	SW8270C	1	43.8	720	ND		ug/Kg	12/22/22	8:40	MK	471614
Acceptance Limits											
2-Fluorophenol (S)	SW8270C		25 - 121		58.5		%	12/22/22	8:40	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm
Date Reported: 12/23/22

Client Sample ID:	LB-7-5.0	Lab Sample ID:	2212180-016A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:10		
SDG:			

Prep Method:	3546_BNA	Prep Batch Date/Time:	12/15/22 10:23:00AM
Prep Batch ID:	1147435	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Phenol-d6 (S)	SW8270C	24 - 113	58.4	%	12/22/22	8:40	MK	471614
2,4,6-Tribromophenol (S)	SW8270C	19 - 122	51.2	%	12/22/22	8:40	MK	471614
2-Fluorobiphenyl (S)	SW8270C	45 - 143	63.7	%	12/22/22	8:40	MK	471614
Nitrobenzene-d5 (S)	SW8270C	23 - 120	59.0	%	12/22/22	8:40	MK	471614
p-Terphenyl-d14 (S)	SW8270C	18 - 137	88.1	%	12/22/22	8:40	MK	471614



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-5.0	Lab Sample ID:	2212180-016A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:10		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	12/15/22 11:23:00AM
Prep Batch ID:	1147438	Prep Analyst:	AKIZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.66	2.0	ND		mg/Kg	12/16/22	21:04	SN	471562
TPH as Motor Oil	SW8015B	1	0.76	5.0	5.74		mg/Kg	12/16/22	21:04	SN	471562
			Acceptance Limits		108		%	12/16/22	21:04	SN	471562
Pentacosane (S)	SW8015B		45 - 130								



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:10
SDG:

Lab Sample ID: 2212180-016A
Sample Matrix: Soil

Prep Method: 5035
Prep Batch ID: 1147461

Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
TBA	SW8260B	1	12	50	ND		ug/Kg	12/15/22	21:35	JZ	471460
Diisopropyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Ethyl tert-Butyl ether	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
TAME	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Trichloroethene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Tetrachloroethene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID:	LB-7-5.0	Lab Sample ID:	2212180-016A
Project Name/Location:	772 Pacific Street	Sample Matrix:	Soil
Project Number:	731764201		
Date/Time Sampled:	12/13/22 / 22:10		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	12/15/22 11:09:00AM
Prep Batch ID:	1147461	Prep Analyst:	JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch

The results shown below are reported using their MDL.

Ethylbenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	12/15/22	21:35	JZ	471460
2-Butanone	SW8260B	1	2.3	10.0	ND		ug/Kg	12/15/22	21:35	JZ	471460
(S) Dibromofluoromethane	SW8260B		59.8 - 148		110		%	12/15/22	21:35	JZ	471460
(S) Toluene-d8	SW8260B		55.2 - 133		103		%	12/15/22	21:35	JZ	471460
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		109		%	12/15/22	21:35	JZ	471460



SAMPLE RESULTS

Report prepared for: Peter Cusack
Langan

Date/Time Received: 12/15/22, 1:34 pm

Date Reported: 12/23/22

Client Sample ID: LB-7-5.0
Project Name/Location: 772 Pacific Street
Project Number: 731764201
Date/Time Sampled: 12/13/22 / 22:10
SDG:

Lab Sample ID: 2212180-016A
Sample Matrix: Soil

Prep Method: 5035GRO
Prep Batch ID: 1147462

Prep Batch Date/Time: 12/15/22 11:09:00AM
Prep Analyst: JZHAO

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Gasoline	SW8260B(TPH)	1	43	100	ND		ug/Kg	12/15/22	21:35	JZ	471460
(S) 4-Bromofluorobenzene	SW8260B(TPH)		43.9 - 127		95.2		%	12/15/22	21:35	JZ	471460



MB Summary Report

Work Order:	2212180	Prep Method:	3546_BNA	Prep Date:	12/15/22	Prep Batch:	1147435
Matrix:	Soil	Analytical Method:	SW8270C	Analyzed Date:	12/15/2022	Analytical Batch:	471447
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
N-Nitrosodimethylamine	46.9	720	ND		
Phenol	43.8	288	ND		
Bis(2-chloroethyl)ether	13.3	144	ND		
2-Chlorophenol	47.7	288	ND		
1,3-Dichlorobenzene	13.1	144	ND		
1,4-Dichlorobenzene	14.6	144	ND		
Benzyl Alcohol	20.5	288	ND		
1,2-Dichlorobenzene	13.5	144	ND		
2-Methylphenol (o-Cresol)	29.3	288	ND		
N-Methyl-2-Pyrrolidone (NMP)	68.0	720	ND		
3-/4-Methylphenol (p-/m-Cresol)	31.3	288	ND		
N-nitroso-di-n-propylamine	13.2	144	ND		
Hexachloroethane	17.1	144	ND		
Nitrobenzene	12.8	144	ND		
Isophorone	12.2	144	ND		
2-Nitrophenol	25.4	288	ND		
2,4-Dimethylphenol	22.8	288	ND		
Benzoic Acid	41.7	288	ND		
Bis(2-Chloroethoxy)methane	9.79	144	ND		
Bis(2-chloroisopropyl)ether	12.6	144	ND		
2,4-Dichlorophenol	39.3	288	ND		
1,2,4-Trichlorobenzene	11.8	144	ND		
Naphthalene	10.6	144	ND		
2,6-Dichlorophenol	35.8	288	ND		
Hexachloro-1,3-butadiene	8.34	144	ND		
4-Chloro-3-methylphenol	33.8	288	ND		
2-Methylnaphthalene	10.4	144	ND		
1-Methylnaphthalene	12.2	144	ND		
Hexachlorocyclopentadiene	12.9	144	ND		
2,4,6-Trichlorophenol	35.9	288	ND		
2,4,5-Trichlorophenol	33.4	288	ND		
2-Chloronaphthalene	10.6	144	ND		
1,4-Dinitrobenzene	10.3	144	ND		
Dimethyl phthalate	14.2	720	ND		
1,3-Dinitrobenzene	10.4	144	ND		
Acenaphthylene	8.28	144	ND		
2,6-Dinitrotoluene	11.3	144	ND		
1,2-Dinitrobenzene	15.8	144	ND		
Acenaphthene	10.7	144	ND		
2,4-Dinitrophenol	77.6	720	ND		
4-Nitrophenol	54.7	720	ND		
Dibenzofuran	11.2	144	ND		
2,4-Dinitrotoluene	12.1	144	ND		
2,3,5,6-Tetrachlorophenol	27.6	288	ND		
2,3,4,6-Tetrachlorophenol	31.5	288	ND		



MB Summary Report

Work Order:	2212180	Prep Method:	3546_BNA	Prep Date:	12/15/22	Prep Batch:	1147435
Matrix:	Soil	Analytical Method:	SW8270C	Analyzed Date:	12/15/2022	Analytical Batch:	471447
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Diethylphthalate	13.6	720	ND	
Fluorene	10.3	144	ND	
4-Chlorophenyl-phenylether	9.32	144	ND	
4,6-Dinitro-2-methylphenol	13.4	288	ND	
Diphenylamine	13.0	144	ND	
Azobenzene	114	144	ND	
4-Bromophenyl-phenylether	8.23	144	ND	
Hexachlorobenzene	8.66	144	ND	
Pentachlorophenol	25.0	288	ND	
Phenanthrene	9.32	144	ND	
Anthracene	8.91	144	ND	
Carbazole	10.7	144	ND	
Di-n-butylphthalate	13.5	144	ND	
Fluoranthene	10.0	144	ND	
Benzidine	147	144	ND	
Pyrene	12.0	144	29.0	
Butylbenzylphthalate	21.0	720	ND	
Benzo(a)anthracene	9.80	144	ND	
3,3-Dichlorobenzidine	118	144	ND	
Chrysene	15.2	144	ND	
Bis(2-Ethylhexyl)phthalate	15.3	720	ND	
Di-n-Octylphthalate	12.3	144	ND	
Benzo(b)fluorathene	12.0	144	ND	
benzo(k)fluorathene	8.16	144	ND	
Benzo(a)pyrene	9.80	144	ND	
Indeno(1,2,3-c,d)pyrene	13.8	144	ND	
Dibenzo(a,h)anthracene	12.7	144	ND	
Benzo(g,h,i)perylene	12.7	144	ND	
Pyridine	43.8	720	ND	
2-Fluorophenol (S)			67.0	
Phenol-d6 (S)			67.7	
2,4,6-Tribromophenol (S)			98.8	
2-Fluorobiphenyl (S)			70.5	
Nitrobenzene-d5 (S)			70.6	
p-Terphenyl-d14 (S)			109	



MB Summary Report

Work Order:	2212180	Prep Method:	3546_TPH	Prep Date:	12/15/22	Prep Batch:	1147438
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	12/15/2022	Analytical Batch:	471477
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Diesel	0.66	2.0	1.14		
TPH as Motor Oil	0.76	5.0	1.98		
Pentacosane (S)			100		

Work Order:	2212180	Prep Method:	3546_PCB	Prep Date:	12/15/22	Prep Batch:	1147440
Matrix:	Soil	Analytical Method:	SW8082A	Analyzed Date:	12/15/2022	Analytical Batch:	471449
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Aroclor1016	35.0	100	ND		
Aroclor1221	5.00	100	ND		
Aroclor1232	17.0	100	ND		
Aroclor1242	3.00	100	ND		
Aroclor1248	2.00	100	ND		
Aroclor1254	14.0	100	ND		
Aroclor1260	24.0	100	ND		
TCMX (S)			85.0		
DCBP (S)			85.0		



MB Summary Report

Work Order:	2212180	Prep Method:	5035	Prep Date:	12/15/22	Prep Batch:	1147461
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	12/15/2022	Analytical Batch:	471460
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	ND	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethylbenzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	
Styrene	1.6	10	ND	
Bromoform	1.7	10	ND	
Isopropyl Benzene	1.6	10	ND	



MB Summary Report

Work Order:	2212180	Prep Method:	5035	Prep Date:	12/15/22	Prep Batch:	1147461
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	12/15/2022	Analytical Batch:	471460
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	4.2	J	
Naphthalene	1.7	10	6.6	J	
1,2,3-Trichlorobenzene	1.7	10	5.4	J	
2-Butanone	2.3	10	ND		
(S) Dibromofluoromethane			104		
(S) Toluene-d8			98.3		
(S) 4-Bromofluorobenzene			107		

Work Order:	2212180	Prep Method:	5035GRO	Prep Date:	12/15/22	Prep Batch:	1147462
Matrix:	Soil	Analytical Method:	SW8260B(TPH)	Analyzed Date:	12/15/2022	Analytical Batch:	471460
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	43	100	ND		
(S) 4-Bromofluorobenzene			97.1		

Work Order:	2212180	Prep Method:	7471BP	Prep Date:	12/15/22	Prep Batch:	1147466
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	12/16/2022	Analytical Batch:	471519
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Mercury	0.083	0.50	ND		



MB Summary Report

Work Order:	2212180	Prep Method:	6020S-P	Prep Date:	12/16/22	Prep Batch:	1147472
Matrix:	Soil	Analytical Method:	SW6020A	Analyzed Date:	12/19/2022	Analytical Batch:	471558
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Antimony	0.12	1.0	ND		
Arsenic	0.21	1.0	ND		
Barium	0.84	1.0	ND		
Beryllium	0.16	1.0	ND		
Cadmium	0.084	1.0	ND		
Chromium	0.097	1.0	ND		
Cobalt	0.21	1.0	ND		
Copper	0.17	2.5	ND		
Lead	0.054	1.0	ND		
Molybdenum	0.13	1.0	ND		
Nickel	1.2	5.0	ND		
Selenium	0.035	1.0	ND		
Silver	0.098	0.50	ND		
Thallium	0.34	5.0	ND		
Vanadium	0.28	25	ND		
Zinc	0.70	2.5	ND		



MB Summary Report

Work Order:	2212180	Prep Method:	3546_OCP	Prep Date:	12/16/22	Prep Batch:	1147477
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	12/16/2022	Analytical Batch:	471544
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.25	2.0	ND	
gamma-BHC (Lindane)	0.71	2.0	ND	
beta-BHC	0.44	2.0	ND	
delta-BHC	0.65	2.0	ND	
Heptachlor	0.27	2.0	ND	
Aldrin	0.29	2.0	ND	
Heptachlor Epoxide	0.31	2.0	ND	
gamma-Chlordane	1.5	3.0	ND	
alpha-Chlordane	0.36	2.0	ND	
4,4'-DDE	0.61	2.0	ND	
Endosulfan I	0.29	2.0	ND	
Dieldrin	0.25	2.0	ND	
Endrin	0.79	2.0	ND	
4,4'-DDD	0.64	2.0	ND	
Endosulfan II	0.34	2.0	ND	
4,4'-DDT	0.74	2.0	ND	
Endrin Aldehyde	0.51	2.0	ND	
Methoxychlor	2.6	6.0	ND	
Endosulfan Sulfate	0.51	2.0	ND	
Endrin Ketone	0.43	2.0	ND	
Chlordane, Technical	2.7	20	ND	
Toxaphene	22	50	ND	
Tetrachloro-M-Xylene (S)			75.8	
Decachlorobiphenyl (S)			81.0	



MB Summary Report

Work Order:	2212180	Prep Method:	5035	Prep Date:	12/15/22	Prep Batch:	1147485
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	12/15/2022	Analytical Batch:	471486
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	2.3	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
TBA	12	50	ND	
Diisopropyl ether	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
Ethyl tert-Butyl ether	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethylbenzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	
Styrene	1.6	10	ND	
Bromoform	1.7	10	ND	
Isopropyl Benzene	1.6	10	ND	



MB Summary Report

Work Order:	2212180	Prep Method:	5035	Prep Date:	12/15/22	Prep Batch:	1147485
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	12/15/2022	Analytical Batch:	471486
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
n-Propylbenzene	1.6	10	ND		
Bromobenzene	1.8	10	ND		
1,1,2,2-Tetrachloroethane	1.9	10	ND		
2-Chlorotoluene	1.8	10	ND		
1,3,5-Trimethylbenzene	1.6	10	ND		
1,2,3-Trichloropropane	1.9	10	ND		
4-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.6	10	ND		
1,2,4-Trimethylbenzene	1.4	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.7	10	ND		
1,4-Dichlorobenzene	1.7	10	ND		
n-Butylbenzene	1.5	10	ND		
1,2-Dichlorobenzene	1.8	10	ND		
1,2-Dibromo-3-Chloropropane	1.8	10	ND		
Hexachlorobutadiene	1.4	10	ND		
1,2,4-Trichlorobenzene	1.5	10	ND		
Naphthalene	1.7	10	ND		
1,2,3-Trichlorobenzene	1.7	10	ND		
2-Butanone	2.3	10	2.3		
(S) Dibromofluoromethane			91.0		
(S) Toluene-d8			81.0		
(S) 4-Bromofluorobenzene			85.0		

Work Order:	2212180	Prep Method:	5035GRO	Prep Date:	12/15/22	Prep Batch:	1147488
Matrix:	Soil	Analytical Method:	SW8260B(TPH)	Analyzed Date:	12/15/2022	Analytical Batch:	471486
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Gasoline	43	100	ND		
(S) 4-Bromofluorobenzene			110		

Work Order:	2212180	Prep Method:	9010P	Prep Date:	12/17/22	Prep Batch:	1147517
Matrix:	Soil	Analytical Method:	SW9014	Analyzed Date:	12/17/2022	Analytical Batch:	471507
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Cyanide, Total	0.24	1.5	ND		



MB Summary Report

Work Order:	2212180	Prep Method:	1311/3010A	Prep Date:	12/29/22	Prep Batch:	1147709
Matrix:	Soil	Analytical Method:	SW6010B-TCLP	Analyzed Date:	12/30/2022	Analytical Batch:	471711
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Arsenic (TCLP)	0.40	0.20	ND		
Barium (TCLP)	0.020	0.20	ND		
Cadmium (TCLP)	0.040	0.20	ND		
Chromium (TCLP)	0.010	0.20	ND		
Lead (TCLP)	0.050	0.20	ND		
Selenium (TCLP)	0.090	0.20	ND		
Silver (TCLP)	0.020	0.20	ND		

Work Order:	2212180	Prep Method:	WET/3010B	Prep Date:	12/30/22	Prep Batch:	1147721
Matrix:	Soil	Analytical Method:	SW6010B-STLC	Analyzed Date:	1/3/2023	Analytical Batch:	471719
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Chromium (STLC)	0.010	0.20	0.025		
Copper (STLC)	0.020	0.20	ND		
Lead (STLC)	0.050	0.20	ND		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2212180	Prep Method:	3546_BNA	Prep Date:	12/15/22	Prep Batch:	1147435
Matrix:	Soil	Analytical Method:	SW8270C	Analyzed Date:	12/15/2022	Analytical Batch:	471447
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Phenol	43.8	288	ND	1600	80.6	74.5	8.06	40 - 100	30	
2-Chlorophenol	47.7	288	ND	1600	77.4	74.8	3.28	45 - 105	30	
Bis(2-chloroethyl)ether	14.6	144	ND	800	75.8	73.4	3.35	35 - 105	30	
N-nitroso-di-n-propylamine	13.2	144	ND	1600	60.1	56.6	5.89	40 - 115	30	
1,2,4-Trichlorobenzene	11.8	144	ND	800	76.1	72.7	4.53	45 - 110	30	
1,4-Dichlorobenzene	33.8	288	ND	1600	85.3	80.3	6.06	45 - 110	30	
Acenaphthene	10.7	144	ND	800	82.7	82.7	0.000	45 - 110	30	
4-Nitrophenol	54.7	720	ND	1600	52.8	51.3	2.88	15 - 140	30	
2,4-Dinitrotoluene	12.1	144	ND	800	78.0	78.9	1.12	50 - 115	30	
N-Methyl-2-Pyrrolidone (NMP)	12.0	144	ND	1600	105	101	3.64	25 - 120	30	
Pyrene	12.0	144		800	79.4	76.3	4.17	45 - 145	30	
2-Fluorophenol (S)				22200	75.2	68.6		25 - 121		
Phenol-d6 (S)				22200	77.7	72.4		24 - 113		
2,4,6-Tribromophenol (S)				22200	96.3	97.7		19 - 122		
2-Fluorobiphenyl (S)				11100	72.7	74.0		30 - 143		
Nitrobenzene-d5 (S)				11100	72.4	78.2		23 - 120		
p-Terphenyl-d14 (S)				11100	94.6	94.0		18 - 137		

Work Order:	2212180	Prep Method:	3546_TPH	Prep Date:	12/15/22	Prep Batch:	1147438
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	12/15/2022	Analytical Batch:	471477
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.66	2.0	1.14	25.0	84.3	82.3	2.40	52 - 115	30	
Pentacosane (S)				200	109	100		45 - 130		

Work Order:	2212180	Prep Method:	3546_PCB	Prep Date:	12/15/22	Prep Batch:	1147440
Matrix:	Soil	Analytical Method:	SW8082A	Analyzed Date:	12/15/2022	Analytical Batch:	471449
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	53	100		600	105	106	1.11	25 - 145	30	
Aroclor1260	36	100		600	82.0	85.2	3.79	30 - 145	30	
TCMX (S)				0.10	87.0	88.0		48 - 125		
DCBP (S)				0.10	83.0	84.0		48 - 135		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2212180	Prep Method:	5035	Prep Date:	12/15/22	Prep Batch:	1147461
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	12/15/2022	Analytical Batch:	471460
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	98.5	100	1.81	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	110	111	0.181	66.5 - 135	30	
Trichloroethene	1.8	10	ND	50.0	111	111	0.181	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	108	106	1.31	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	109	108	0.922	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	107	109		59.8 - 148		
(S) Toluene-d8				50.0	107	107		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	110	107		55.8 - 141		

Work Order:	2212180	Prep Method:	5035GRO	Prep Date:	12/15/22	Prep Batch:	1147462
Matrix:	Soil	Analytical Method:	SW8260B(TPH)	Analyzed Date:	12/15/2022	Analytical Batch:	471460
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	111	100	10.4	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	107	108		43.9 - 127		

Work Order:	2212180	Prep Method:	7471BP	Prep Date:	12/15/22	Prep Batch:	1147466
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	12/16/2022	Analytical Batch:	471519
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	88.3	93.5	6.17	85 - 115	30	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2212180	Prep Method:	6020S-P	Prep Date:	12/16/22	Prep Batch:	1147472
Matrix:	Soil	Analytical Method:	SW6020A	Analyzed Date:	12/19/2022	Analytical Batch:	471558
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	ND	25	105	105	0.382	80 - 120	30	
Arsenic	0.21	1.0	ND	25	105	106	1.14	80 - 120	30	
Barium	0.84	1.0	ND	25	106	105	0.758	80 - 120	30	
Beryllium	0.16	1.0	ND	25	107	109	1.11	80 - 120	30	
Cadmium	0.084	1.0	ND	25	105	107	1.13	80 - 120	30	
Chromium	0.097	1.0	ND	25	106	106	0.000	80 - 120	30	
Cobalt	0.21	1.0	ND	25	106	107	0.752	80 - 120	30	
Copper	0.17	2.5	ND	25	104	105	0.382	80 - 120	30	
Lead	0.054	1.0	ND	25	106	107	1.50	80 - 120	30	
Molybdenum	0.13	1.0	ND	25	105	106	1.14	80 - 120	30	
Nickel	1.2	5.0	ND	25	106	106	0.000	80 - 120	30	
Selenium	0.035	2.5	ND	25	104	105	1.53	80 - 120	30	
Silver	0.098	1.0	ND	25	83.2	84.4	1.43	80 - 120	30	
Thallium	0.34	5.0	ND	25	106	106	0.755	80 - 120	30	
Vanadium	0.28	25	ND	25	104	104	0.384	80 - 120	30	
Zinc	0.70	2.5	ND	25	108	110	1.47	80 - 120	30	

Work Order:	2212180	Prep Method:	3546_OCP	Prep Date:	12/16/22	Prep Batch:	1147477
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	12/16/2022	Analytical Batch:	471544
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	87.2	84.8	2.91	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	92.6	89.4	3.57	40 - 130	30	
Aldrin	0.20	2.0	ND	40	86.5	83.8	3.23	25 - 140	30	
delta-BHC	0.15	2.0	ND	40	89.5	86.9	3.12	60 - 130	30	
Heptachlor	0.19	2.0	ND	40	96.1	93.2	3.17	55 - 135	30	
4,4'-DDT	0.13	2.0	ND	40	94.0	91.1	3.24	45 - 140	30	
Tetrachloro-M-Xylene (S)				100	76.4	77.9		48 - 125		
Decachlorobiphenyl (S)				100	80.5	82.4		38 - 135		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2212180	Prep Method:	5035	Prep Date:	12/15/22	Prep Batch:	1147485
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	12/15/2022	Analytical Batch:	471486
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	2.3	50.0	80.7	78.0	3.28	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	87.6	81.4	7.34	66.5 - 135	30	
Trichloroethene	1.8	10	ND	50.0	86.9	82.0	5.92	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	93.1	86.1	7.59	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	91.9	87.6	4.68	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	104	107		59.8 - 148		
(S) Toluene-d8				50.0	93.7	86.8		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	95.0	92.1		55.8 - 141		

Work Order:	2212180	Prep Method:	5035GRO	Prep Date:	12/15/22	Prep Batch:	1147488
Matrix:	Soil	Analytical Method:	SW8260B(TPH)	Analyzed Date:	12/15/2022	Analytical Batch:	471486
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	43	100	ND	1000	115	116	0.866	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	120	120		43.9 - 127		

Work Order:	2212180	Prep Method:	9010P	Prep Date:	12/17/22	Prep Batch:	1147517
Matrix:	Soil	Analytical Method:	SW9014	Analyzed Date:	12/17/2022	Analytical Batch:	471507
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Cyanide, Total	0.24	1.5	ND	5	92.0	91.0	1.09	80 - 120	30	

Work Order:	2212180	Prep Method:	1311/3010A	Prep Date:	12/29/22	Prep Batch:	1147709
Matrix:	Soil	Analytical Method:	SW6010B-TCLP	Analyzed Date:	12/30/2022	Analytical Batch:	471711
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic (TCLP)	0.20	0.40	ND	10	95.5	94.8	0.736	80 - 120	20	
Barium (TCLP)	0.020	0.20	ND	10	94.8	94.1	0.741	80 - 120	20	
Cadmium (TCLP)	0.040	0.20	ND	10	94.0	92.9	1.18	80 - 120	20	
Chromium (TCLP)	0.010	0.20	ND	10	93.6	93.0	0.643	80 - 120	20	
Lead (TCLP)	0.050	0.20	ND	10	92.9	92.5	0.432	80 - 120	20	
Selenium (TCLP)	0.090	0.20	ND	10	98.7	97.9	0.814	80 - 120	20	
Silver (TCLP)	0.020	0.20	ND	10	95.4	94.7	0.736	80 - 120	20	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2212180	Prep Method:	WET/3010B	Prep Date:	12/30/22	Prep Batch:	1147721
Matrix:	Soil	Analytical Method:	SW6010B-STLC	Analyzed Date:	1/3/2023	Analytical Batch:	471719
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Chromium (STLC)	0.010	0.20	0.025	10	94.6	95.4	0.842	80 - 120	20	
Copper (STLC)	0.020	0.20	ND	10	105	106	0.948	80 - 120	20	
Lead (STLC)	0.050	0.20	ND	10	94.0	94.8	0.847	80 - 120	20	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2212180	Prep Method:	3546_BNA	Prep Date:	12/15/22	Prep Batch:	1147435
Matrix:	Soil	Analytical Method:	SW8270C	Analyzed Date:	12/22/2022	Analytical Batch:	471614
Spiked Sample:	2212180-008A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Phenol	43.8	288	ND	1600	58.5	58.3	0.320	40 - 100	30	
2-Chlorophenol	47.7	288	ND	1600	55.2	58.4	5.61	45 - 105	30	
1,4-Dichlorobenzene	14.6	144	ND	800	62.0	64.6	4.15	35 - 105	30	
N-nitroso-di-n-propylamine	13.2	144	ND	1600	65.1	68.1	4.69	40 - 115	30	
1,2,4-Trichlorobenzene	11.8	144	ND	800	63.1	66.4	5.22	45 - 110	30	
4-Chloro-3-methylphenol	33.8	288	ND	1600	67.4	70.5	4.52	45 - 110	30	
Acenaphthene	10.7	144	ND	800	71.8	74.8	3.92	45 - 110	30	
4-Nitrophenol	54.7	720	ND	1600	50.9	64.7	23.4	15 - 140	30	
2,4-Dinitrotoluene	12.1	144	ND	800	71.8	77.5	7.53	50 - 115	30	
Pentachlorophenol	9.32	144	ND	1600	45.0	45.6	1.51	25 - 120	30	
Pyrene	12.0	144	ND	800	66.0	70.0	5.77	45 - 145	30	
2-Fluorophenol (S)				22200	60.0	64.2		25 - 121		
Phenol-d6 (S)				22200	66.3	64.1		24 - 113		
2,4,6-Tribromophenol (S)				22200	54.6	59.6		19 - 122		
2-Fluorobiphenyl (S)				11100	63.5	65.6		30 - 143		
Nitrobenzene-d5 (S)				11100	64.2	69.2		23 - 120		
p-Terphenyl-d14 (S)				11100	74.7	78.8		18 - 137		

Work Order:	2212180	Prep Method:	3546_TPH	Prep Date:	12/15/22	Prep Batch:	1147438
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	12/16/2022	Analytical Batch:	471562
Spiked Sample:	2212180-007A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.663	2.00	ND	25.0	89.2	77.5	13.2	52 - 115	30	
Pentacosane (S)				200	119	102		45 - 130		

Work Order:	2212180	Prep Method:	3546_PCB	Prep Date:	12/15/22	Prep Batch:	1147440
Matrix:	Soil	Analytical Method:	SW8082A	Analyzed Date:	12/16/2022	Analytical Batch:	471516
Spiked Sample:	2212180-007A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aroclor1016	53.0	100	ND	600	111	112	1.34	25 - 145	30	
Aroclor1260	36.0	100	ND	600	95.8	96.8	1.04	30 - 145	30	
TCMX (S)				0.10	92.0	93.0		48 - 125		
DCBP (S)				0.10	96.0	95.0		48 - 135		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2212180	Prep Method:	6020S-P	Prep Date:	12/16/22	Prep Batch:	1147472
Matrix:	Soil	Analytical Method:	SW6020A	Analyzed Date:	12/19/2022	Analytical Batch:	471558
Spiked Sample:	2212180-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.12	1.0	2.40	25	67.9	64.1	5.29	30.7 - 130	33	
Arsenic	0.21	1.0	7.98	25	110	104	4.89	71.0 - 121	33	
Barium	0.84	1.0	195	25	0	0	4.69	70.2 - 130	33	NR
Beryllium	0.16	1.0	ND	25	117	115	1.37	73.3 - 125	33	S
Cadmium	0.084	1.0	ND	25	115	112	3.14	88.7 - 110	33	S
Chromium	0.097	1.0	64.1	25	114	108	1.63	76.0 - 116	33	
Cobalt	0.21	1.0	3.31	25	109	106	2.99	57.4 - 122	33	
Copper	0.17	2.5	104	25	0	0	4.22	74.8 - 119	33	NR
Lead	0.054	1.0	644	25	0	0	3.91	57.9 - 118	33	NR
Molybdenum	0.13	1.0	ND	25	106	103	3.00	62.9 - 123	33	
Nickel	1.2	5.0	23.3	25	118	107	5.45	61.5 - 122	33	
Selenium	0.035	2.5	ND	25	108	103	5.02	62.0 - 111	33	
Silver	0.098	1.0	ND	25	92.3	87.4	5.17	81.1 - 109	33	
Thallium	0.34	5.0	ND	25	113	110	2.50	39.2 - 125	33	
Vanadium	0.28	25	35.7	25	128	120	3.00	65.8 - 122	33	S
Zinc	0.70	2.5	178	25	0	0	4.90	59.9 - 122	33	NR

Work Order:	2212180	Prep Method:	3546_OCP	Prep Date:	12/16/22	Prep Batch:	1147477
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	12/17/2022	Analytical Batch:	471572
Spiked Sample:	2212180-009A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.159	2.00	ND	40	82.1	82.4	0.608	25 - 135	30	
Heptachlor	0.105	2.00	ND	40	83.6	84.0	0.597	40 - 130	30	
Aldrin	0.195	2.00	ND	40	82.9	83.2	0.301	25 - 140	30	
Dieldrin	0.148	2.00	ND	40	85.2	86.0	0.876	60 - 130	30	
Endrin	0.188	2.00	ND	40	92.7	92.3	0.541	55 - 135	30	
4,4'-DDT	0.129	2.00	ND	40	89.2	91.1	1.94	45 - 140	30	
Tetrachloro-M-Xylene (S)				100	73.4	72.6		48 - 125		
Decachlorobiphenyl (S)				100	82.3	80.4		38 - 135		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2212180	Prep Method:	5035	Prep Date:	12/15/22	Prep Batch:	1147485
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	12/15/2022	Analytical Batch:	471486
Spiked Sample:	2212180-009A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50	74.5	87.4	15.8	55 - 125	30	
Benzene	2.2	10	ND	50	85.9	102	17.0	55 - 125	30	
Trichloroethene	1.8	10	ND	50	81.5	93.0	13.3	55 - 125	30	
Toluene	1.8	10	ND	50	87.1	100	14.1	55 - 125	30	
Chlorobenzene	1.8	10	ND	50	87.8	103	15.7	55 - 125	30	
(S) Dibromofluoromethane				50	84.6	111		59.8 - 148		
(S) Toluene-d8				50	87.3	98.8		55.2 - 133		
(S) 4-Bromofluorobenzene				50	85.9	96.4		55.8 - 141		

Work Order:	2212180	Prep Method:	9010P	Prep Date:	12/17/22	Prep Batch:	1147517
Matrix:	Soil	Analytical Method:	SW9014	Analyzed Date:	12/17/2022	Analytical Batch:	471507
Spiked Sample:	2212180-009A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Cyanide, Total	0.24	1.5	ND	5	78.0	78.0	0.000	75 - 125	20	

Work Order:	2212180	Prep Method:	1311/3010A	Prep Date:	12/29/22	Prep Batch:	1147709
Matrix:	Soil	Analytical Method:	SW6010B-TCLP	Analyzed Date:	12/30/2022	Analytical Batch:	471711
Spiked Sample:	2212180-001A						
Units:	mg/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Lead (TCLP)	0.0500	0.200	ND	10	92.1	91.4	0.762	75 - 125	20	

Work Order:	2212180	Prep Method:	WET/3010B	Prep Date:	12/30/22	Prep Batch:	1147721
Matrix:	Soil	Analytical Method:	SW6010B-STLC	Analyzed Date:	1/3/2023	Analytical Batch:	471719
Spiked Sample:	2212180-015A						
Units:	mg/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Chromium (STLC)	0.0100	0.200	ND	10	91.7	91.9	0.216	75 - 125	20	



Duplicate QC Summary Report

Work Order:	2212180	Prep Method:	9045C	Prep Date:	12/19/2022	Prep Batch:	1147568
Matrix:		Analytical Method:	SW9045D	Analyzed Date:	12/19/22	Analytical Batch:	471547
Units:						Lab Sample ID:	2212180-008A-DUP-1147568

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
pH in Soil	0.10	2.00	7.72	7.53	2.49	

Work Order:	2212180	Prep Method:	9045C	Prep Date:	12/19/2022	Prep Batch:	1147568
Matrix:		Analytical Method:	SW9045D	Analyzed Date:	12/19/22	Analytical Batch:	471547
Units:						Lab Sample ID:	2212180-016A-DUP-1147568

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
pH in Soil	0.10	2.00	7.12	6.98	1.99	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H - Indicates that the recommended holding time for the analyte or compound has been exceeded
J - Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R - The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S - Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Langan

Project Name: 772 Pacific Street

Work Order No.: 2212180

Date and Time Received: 12/15/2022 1:34:00PM

Received By: Lorna Imbat

Physically Logged By: Lorna Imbat

Checklist Completed By: Lorna Imbat

Carrier Name: FedEx

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>	
Container/Temp Blank temperature in compliance?	<u>No</u>	Temperature: 7.0 °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>	
Water-pH acceptable upon receipt?	<u>N/A</u>	
pH Checked by: n/a	pH Adjusted by: n/a	

Comments:



Login Summary Report

Client ID: TL5493 Langan
Project Name: 772 Pacific Street
Project # : 731764201
Report Due Date: 1/9/2023

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/15/2022
Time Received: 1:34 pm

Comments:

Work Order # : 2212180

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2212180-001A	LB-2-1.5	12/13/22 20:17	Soil	06/11/23			SVO_S_8270CFull Met_S_CAM17STLC Hg_S_7471B Met_S_CAM17TCLP PCBs_S_8082A VOC_S_8260B CN_S_9014 Pest_S_8081OCP pH_S_9045D Met_S_6020CAM17 TPHDO_S_8015(Mod) Sub_Asb CARB435 A SUB_Misc_Soil VOC_S_GRO	Yes Yes
Sample Note: Pls report to MDL								
2212180-002A	LB-2-3.0	12/13/22 20:20	Soil	06/11/23			SVO_S_8270CFull Met_S_CAM17STLC Hg_S_7471B PCBs_S_8082A VOC_S_8260B Pest_S_8081OCP CN_S_9014 pH_S_9045D SUB_Misc_Soil Sub_Asb CARB435 A Met_S_6020CAM17 TPHDO_S_8015(Mod) VOC_S_GRO	Yes Yes
2212180-003A	LB-2-5.0	12/13/22 20:35	Soil	06/11/23			SVO_S_8270CFull Met_S_CAM17STLC Hg_S_7471B PCBs_S_8082A VOC_S_8260B Pest_S_8081OCP CN_S_9014 pH_S_9045D	



Login Summary Report

Client ID: TL5493 Langan
Project Name: 772 Pacific Street
Project # : 731764201
Report Due Date: 1/9/2023

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/15/2022
Time Received: 1:34 pm

Comments:
Work Order # : 2212180

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
							Sub_Asb CARB435 A	Yes
							SUB_Misc_Soil	Yes
							Met_S_6020CAM17	
							TPHDO_S_8015(Mod)	
							VOC_S_GRO	
2212180-004A	LB-3-1.5	12/13/22 22:40	Soil	06/11/23				
							SVO_S_8270CFull	
							Met_S_CAM17STLC	
							VOC_S_GRO	
							Hg_S_7471B	
							PCBs_S_8082A	
							VOC_S_8260B	
							Pest_S_8081OCP	
							CN_S_9014	
							pH_S_9045D	
							Sub_Asb CARB435 A	Yes
							SUB_Misc_Soil	Yes
							Met_S_6020CAM17	
							TPHDO_S_8015(Mod)	
2212180-005A	LB-3-3.0	12/13/22 22:51	Soil	06/11/23				
							SVO_S_8270CFull	
							Met_S_CAM17STLC	
							VOC_S_GRO	
							Hg_S_7471B	
							PCBs_S_8082A	
							VOC_S_8260B	
							Pest_S_8081OCP	
							CN_S_9014	
							Sub_Asb CARB435 A	Yes
							pH_S_9045D	
							Met_S_6020CAM17	
							SUB_Misc_Soil	Yes
							TPHDO_S_8015(Mod)	
2212180-006A	LB-3-5.0	12/13/22 23:18	Soil	06/11/23				
							SVO_S_8270CFull	
							Met_S_CAM17STLC	
							VOC_S_GRO	
							Hg_S_7471B	
							PCBs_S_8082A	



Login Summary Report

Client ID: TL5493 Langan
Project Name: 772 Pacific Street
Project # : 731764201
Report Due Date: 1/9/2023

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/15/2022
Time Received: 1:34 pm

Comments:
Work Order # : 2212180

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
							VOC_S_8260B Pest_S_8081OCP CN_S_9014 pH_S_9045D Met_S_6020CAM17 SUB_Misc_Soil Sub_Asb CARB435 A TPHDO_S_8015(Mod)	Yes Yes
2212180-007A	LB-4-1.5	12/13/22 22:12	Soil	06/11/23			SVO_S_8270CFull Met_S_CAM17STLC VOC_S_GRO Hg_S_7471B PCBs_S_8082A VOC_S_8260B Pest_S_8081OCP CN_S_9014 pH_S_9045D Met_S_6020CAM17 SUB_Misc_Soil Sub_Asb CARB435 A TPHDO_S_8015(Mod)	Yes Yes
2212180-008A	LB-4-3.0	12/13/22 22:20	Soil	06/11/23			SVO_S_8270CFull Met_S_CAM17STLC VOC_S_GRO Hg_S_7471B PCBs_S_8082A VOC_S_8260B Pest_S_8081OCP CN_S_9014 pH_S_9045D Met_S_6020CAM17 SUB_Misc_Soil Sub_Asb CARB435 A TPHDO_S_8015(Mod)	Yes Yes
2212180-009A	LB-4-5.0	12/13/22 22:30	Soil	06/11/23			SVO_S_8270CFull Met_S_CAM17STLC	



Login Summary Report

Client ID: TL5493 Langan

Project Name: 772 Pacific Street

Project # : 731764201

Report Due Date: 1/9/2023

Comments:

Work Order # : 2212180

QC Level: II

TAT Requested: 5+ day:5

Date Received: 12/15/2022

Time Received: 1:34 pm

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2212180-010A	LB-5-1.5	12/13/22 21:37	Soil	06/11/23			VOC_S_GRO	
							Hg_S_7471B	
							PCBs_S_8082A	
							VOC_S_8260B	
							Pest_S_8081OCP	
							CN_S_9014	
							pH_S_9045D	
							Met_S_6020CAM17	
							TPHDO_S_8015(Mod)	
							Sub_Asb CARB435 A	Yes
							SUB_Misc_Soil	Yes
							SVO_S_8270CFull	
							Met_S_CAM17STLC	
							VOC_S_GRO	
							Hg_S_7471B	
							Met_S_CAM17TCLP	
							PCBs_S_8082A	
							VOC_S_8260B	
							Pest_S_8081OCP	
							CN_S_9014	
							pH_S_9045D	
							Met_S_6020CAM17	
							Sub_Asb CARB435 A	Yes
							SUB_Misc_Soil	Yes
							TPHDO_S_8015(Mod)	
							SVO_S_8270CFull	
							Met_S_CAM17STLC	
							VOC_S_GRO	
							Hg_S_7471B	
							PCBs_S_8082A	
							VOC_S_8260B	
							Pest_S_8081OCP	
							CN_S_9014	
							pH_S_9045D	
							Met_S_6020CAM17	
							Sub_Asb CARB435 A	Yes
							SUB_Misc_Soil	Yes



Login Summary Report

Client ID: TL5493 Langan
Project Name: 772 Pacific Street
Project # : 731764201
Report Due Date: 1/9/2023

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/15/2022
Time Received: 1:34 pm

Comments:

Work Order # : 2212180

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2212180-012A	LB-6-3.5	12/13/22 21:50	Soil	06/11/23			TPHDO_S_8015(Mod) SVO_S_8270CFull Met_S_CAM17STLC VOC_S_GRO Hg_S_7471B PCBs_S_8082A VOC_S_8260B CN_S_9014 Pest_S_8081OCP pH_S_9045D Met_S_6020CAM17 Sub_Asb CARB435 A SUB_Misc_Soil TPHDO_S_8015(Mod)	Yes Yes
2212180-013A	LB-6-5.0	12/13/22 21:55	Soil	06/11/23			SVO_S_8270CFull Hg_S_7471B Met_S_CAM17STLC VOC_S_8260B PCBs_S_8082A CN_S_9014 VOC_S_GRO Pest_S_8081OCP pH_S_9045D Met_S_6020CAM17 Sub_Asb CARB435 A SUB_Misc_Soil TPHDO_S_8015(Mod)	Yes Yes
2212180-014A	LB-7-1.5	12/13/22 21:50	Soil	06/11/23			SVO_S_8270CFull Hg_S_7471B Met_S_CAM17TCLP Met_S_CAM17STLC VOC_S_8260B PCBs_S_8082A CN_S_9014 VOC_S_GRO Pest_S_8081OCP	



Login Summary Report

Client ID: TL5493 Langan
Project Name: 772 Pacific Street
Project # : 731764201
Report Due Date: 1/9/2023

QC Level: II
TAT Requested: 5+ day:5
Date Received: 12/15/2022
Time Received: 1:34 pm

Comments:
Work Order # : 2212180

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2212180-015A	LB-7-3.0	12/13/22 21:57	Soil	06/11/23			pH_S_9045D Met_S_6020CAM17 Sub_Asb CARB435 A SUB_Misc_Soil TPHDO_S_8015(Mod)	Yes Yes
2212180-016A	LB-7-5.0	12/13/22 22:10	Soil	06/11/23			SVO_S_8270CFull Hg_S_7471B Met_S_CAM17STLC VOC_S_8260B PCBs_S_8082A CN_S_9014 VOC_S_GRO Pest_S_8081OCP pH_S_9045D Met_S_6020CAM17 SUB_Misc_Soil Sub_Asb CARB435 A TPHDO_S_8015(Mod)	Yes Yes
							SVO_S_8270CFull Hg_S_7471B Met_S_CAM17STLC VOC_S_8260B PCBs_S_8082A CN_S_9014 VOC_S_GRO Pest_S_8081OCP pH_S_9045D Met_S_6020CAM17 Sub_Asb CARB435 A SUB_Misc_Soil TPHDO_S_8015(Mod)	Yes Yes



cc: dcohenkaplan@langan.com

15478

22/12/80

Page 1 of 2

LANGAN

CHAIN OF CUSTODY RECORD

- ☒ 135 Main Street, Suite 1500, San Francisco, CA 94105
☐ 501 14th Street, Third Floor, Oakland, CA 94612
☐ 3320 Data Drive, Suite 350, Rancho Cordova, CA 95670-7982
☐ 1 Almaden Boulevard, Suite 590, San Jose, CA 95113

Site Name: 772 Pacific St.

Job Number: 731764201

Project Manager/Contact: Peter Cusack / pcusack@langan.com

Samplers: Dana Cohen-Kaplan

Recorder (Signature Required): [Signature]

Analysis Requested

Turnaround

Time

Standard

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix & Preservative										No. Containers	Analysis Requested	Silica gel clean-up	Hold	Remarks
				Soil	Water	Air	Other	HCL	H ₂ SO ₄	HNO ₃	Ice							
LB-2-1.5	12/13/22	2017	-001A	X														
LB-2-3.0		2020	-002A															
LB-2-5.0		2035	-003A															
LB-3-1.5		2240	-004A															
LB-3-3.0		2251	-005A															
LB-3-5.0		2318	-006A															
LB-4-1.5		2212	-007A															
LB-4-3.0		2220	-008A															
LB-4-5.0		2230	-009A															
LB-5-1.5		2137	-010A															
LB-6-2.0		2145	-011A															
LB-6-3.5		2150	-012A															
LB-6-4.5.0	✓	2155	-013A	✓														

Relinquished by: (Signature)	Date: 12/15/22	Time: 1334	Received by: (Signature)	Date: 12-15-22	Time: 1334
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by Lab: (Signature)	Date:	Time:

Sent to Laboratory (Name):	Method of Shipment	☐ Lab courier	☐ Fed Ex	☐ Airborne	☐ UPS
Laboratory Comments/Notes:	☐ Hand Carried	☐ Private Courier (Co. Name)			

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number:

Fed Ex

Temp 6.6 #3

15479
2212182

Page 2 of 2

LANGAN

CHAIN OF CUSTODY RECORD

☒	135 Main Street, Suite 1500, San Francisco, CA 94105
☐	501 14th Street, Third Floor, Oakland, CA 94612
☐	3320 Data Drive, Suite 350, Rancho Cordova, CA 95670-7982
☐	1 Almaden Boulevard, Suite 590, San Jose, CA 95113

Site Name: 772 Pacific St

Job Number: 731764201

Project Manager/Contact: Peter Lusack / plusack@alangan.com

Samplers: Dana Cohen-Kaplan

Recorder (Signature Required): Lora G. -

No. Containers

Analysis Requested

Turnaround

Time

Standard

[illegible]

White Copy - Original

Yellow Copy - Laboratory

Pink Copy - Field

COC Number:

Test Ex

temp 6.6 #3



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 092228038

Customer ID: TORR80

Customer PO:

Project ID:

Attention: Kathie Evans
Torrent Laboratory, Inc.
483 Sinclair Frontage Rd.
Milpitas, CA 95035

Phone: (408) 263-5258
Fax: (408) 263-8293
Received: 12/19/2022 10:45 AM
Analysis Date: 12/22/2022
Collected:

Project: COC221215003

Test Report: Asbestos Analysis of Soils via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2212180-001A 092228038-0001		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-002A 092228038-0002		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-003A 092228038-0003		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-004A 092228038-0004		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-005A 092228038-0005		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-006A 092228038-0006		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-007A 092228038-0007		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-008A 092228038-0008		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-009A 092228038-0009		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 12/23/2022 00:31:12



EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / sanleandrolab@emsl.com

EMSL Order: 092228038

Customer ID: TORR80

Customer PO:

Project ID:

Attention: Kathie Evans
Torrent Laboratory, Inc.
483 Sinclair Frontage Rd.
Milpitas, CA 95035

Phone: (408) 263-5258
Fax: (408) 263-8293
Received: 12/19/2022 10:45 AM
Analysis Date: 12/22/2022
Collected:

Project: COC221215003

Test Report: Asbestos Analysis of Soils via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2212180-010A 092228038-0010		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-011A 092228038-0011		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-012A 092228038-0012		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-013A 092228038-0013		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-014A 092228038-0014		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-015A 092228038-0015		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2212180-016A 092228038-0016		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Adam C. Fink (16)

Cecilia Yu, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 12/23/2022 00:31:12



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2212F72

Report Created for: Torrent Laboratory, Inc.

483 Sinclair Frontage Road
Milpitas, CA 95035

Project Contact: Kathie Evans

Project P.O.:

Project: 2212180

Project Received: 12/20/2022

Analytical Report reviewed & approved for release on 12/29/2022 by:

Susan Thompson
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in a case narrative.





Glossary of Terms & Qualifier Definitions

Client: Torrent Laboratory, Inc.

WorkOrder: 2212F72

Project: 2212180

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016.
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDS D	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting limit is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Torrent Laboratory, Inc.

WorkOrder: 2212F72

Project: 2212180

Analytical Qualifiers

H Sample was analyzed out of hold time



Analytical Report

Client: Torrent Laboratory, Inc.
Date Received: 12/20/2022 10:12
Date Prepared: 12/29/2022
Project: 2212180

WorkOrder: 2212F72
Extraction Method: SW9030B/E376.2
Analytical Method: SM4500 S²⁻ D
Unit: mg/Kg

Acid Soluble Sulfide - S

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
2212180-001A	2212F72-001A	Soil	12/13/2022 20:17	SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:13

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
2212180-002A	2212F72-002A	Soil	12/13/2022 20:20	SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:14

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
2212180-003A	2212F72-003A	Soil	12/13/2022 20:35	SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	35	H	2.0	1	12/29/2022 12:15

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
2212180-004A	2212F72-004A	Soil	12/13/2022 22:40	SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:16

Analyst(s): IGC

(Cont.)



Analytical Report

Client: Torrent Laboratory, Inc.
Date Received: 12/20/2022 10:12
Date Prepared: 12/29/2022
Project: 2212180

WorkOrder: 2212F72
Extraction Method: SW9030B/E376.2
Analytical Method: SM4500 S²⁻ D
Unit: mg/Kg

Acid Soluble Sulfide - S

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-005A	2212F72-005A	Soil	12/13/2022 22:51		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:17

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-006A	2212F72-006A	Soil	12/13/2022 23:18		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:18

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-007A	2212F72-007A	Soil	12/13/2022 22:12		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:21

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-008A	2212F72-008A	Soil	12/13/2022 22:20		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:22

Analyst(s): IGC

(Cont.)



Analytical Report

Client: Torrent Laboratory, Inc.
Date Received: 12/20/2022 10:12
Date Prepared: 12/29/2022
Project: 2212180

WorkOrder: 2212F72
Extraction Method: SW9030B/E376.2
Analytical Method: SM4500 S²⁻ D
Unit: mg/Kg

Acid Soluble Sulfide - S

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-009A	2212F72-009A	Soil	12/13/2022 22:30		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:23

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-010A	2212F72-010A	Soil	12/13/2022 21:37		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:24

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-011A	2212F72-011A	Soil	12/13/2022 21:45		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:25

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-012A	2212F72-012A	Soil	12/13/2022 21:50		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:26

Analyst(s): IGC

(Cont.)



Analytical Report

Client: Torrent Laboratory, Inc.
Date Received: 12/20/2022 10:12
Date Prepared: 12/29/2022
Project: 2212180

WorkOrder: 2212F72
Extraction Method: SW9030B/E376.2
Analytical Method: SM4500 S²⁻ D
Unit: mg/Kg

Acid Soluble Sulfide - S

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-013A	2212F72-013A	Soil	12/13/2022 21:55		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:27

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-014A	2212F72-014A	Soil	12/13/2022 21:50		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:28

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-015A	2212F72-015A	Soil	12/13/2022 21:57		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:29

Analyst(s): IGC

Client ID	Lab ID	Matrix	Date Collected		Instrument	Batch ID
2212180-016A	2212F72-016A	Soil	12/13/2022 22:10		SPECTROPHOTOMETER2	261060

Analytes	Result	Qualifiers	RL	DE	Date Analyzed
Acid Soluble Sulfide - S	ND	H	2.0	1	12/29/2022 12:32

Analyst(s): IGC



Quality Control Report

Client: Torrent Laboratory, Inc.

Date Prepared: 12/29/2022

Date Analyzed: 12/29/2022

Instrument: SPECTROPHOTOMETER2

Matrix: Soil

Project: 2212180

WorkOrder: 2212F72

BatchID: 261060

Extraction Method: SW9030B/E376.2

Analytical Method: SM4500 S² D

Unit: mg/Kg

Sample ID: MB/LCS/LCSD-261060

QC Summary Report for SM4500 S-2D

Analyte	MB Result	MDL	RL			
Acid Soluble Sulfide - S	ND	0.96	2.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acid Soluble Sulfide - S	10	10	10	102	101	80-120	1.14	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2212F72

ClientCode: TLI

☐ WaterTrax

☐ CLIP

☐ EDF

☐ EQUIS

☐ Dry-Weight

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Excel

Report to:

Kathie Evans

Torrent Laboratory, Inc.

483 Sinclair Frontage Road

Milpitas, CA 95035

408-263-5258

FAX: 408-263-2708

Email: pm@torrentlaboratory.com; oadmin@torre

cc/3rd Party:

PO:

Project: 2212180

Bill to:

Falguni Jani

Torrent Laboratory, Inc.

483 Sinclair Frontage Road

Milpitas, CA 95035

ap@torrentlab.com; fmjani@torrentlab.c

Requested TAT: 5 days;

Date Received: 12/20/2022

Date Logged: 12/21/2022

Lab ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2212F72-001	2212180-001A	Soil	12/13/2022 20:17	☐	A	A										
2212F72-002	2212180-002A	Soil	12/13/2022 20:20	☐	A	A										
2212F72-003	2212180-003A	Soil	12/13/2022 20:35	☐	A	A										
2212F72-004	2212180-004A	Soil	12/13/2022 22:40	☐	A	A										
2212F72-005	2212180-005A	Soil	12/13/2022 22:51	☐	A	A										
2212F72-006	2212180-006A	Soil	12/13/2022 23:18	☐	A	A										
2212F72-007	2212180-007A	Soil	12/13/2022 22:12	☐	A	A										
2212F72-008	2212180-008A	Soil	12/13/2022 22:20	☐	A	A										
2212F72-009	2212180-009A	Soil	12/13/2022 22:30	☐	A	A										
2212F72-010	2212180-010A	Soil	12/13/2022 21:37	☐	A	A										
2212F72-011	2212180-011A	Soil	12/13/2022 21:45	☐	A	A										
2212F72-012	2212180-012A	Soil	12/13/2022 21:50	☐	A	A										
2212F72-013	2212180-013A	Soil	12/13/2022 21:55	☐	A	A										
2212F72-014	2212180-014A	Soil	12/13/2022 21:50	☐	A	A										
2212F72-015	2212180-015A	Soil	12/13/2022 21:57	☐	A	A										

Test Legend:

1	PRDisposal Fee
5	
9	

2	SULFIDE_S
6	
10	

3	
7	
11	

4	
8	
12	

Prepared by: Adrianna Cardoza

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

WorkOrder: 2212F72

ClientCode: TLI

☐ WaterTrax

☐ CLIP

☐ EDF

☐ EQUIS

☐ Dry-Weight

☒ Email

☐ HardCopy

☐ ThirdParty

☐ J-flag

☐ Detection Summary

☐ Excel

Report to:

Kathie Evans

Torrent Laboratory, Inc.

483 Sinclair Frontage Road

Milpitas, CA 95035

408-263-5258

FAX: 408-263-2708

Email: pm@torrentlaboratory.com; oadmin@torre

cc/3rd Party:

PO:

Project: 2212180

Bill to:

Falguni Jani

Torrent Laboratory, Inc.

483 Sinclair Frontage Road

Milpitas, CA 95035

ap@torrentlab.com; fmjani@torrentlab.c

Requested TAT:

5 days;

Date Received:

12/20/2022

Date Logged:

12/21/2022

Lab ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2212F72-016	2212180-016A	Soil	12/13/2022 22:10	☐	A	A										

Test Legend:

1	PRDisposal Fee
5	
9	

2	SULFIDE_S
6	
10	

3	
7	
11	

4	
8	
12	

Prepared by: Adrianna Cardoza

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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

WORK ORDER SUMMARY

Client Name: TORRENT LABORATORY, INC.

Project: 2212180

Work Order: 2212F72

Client Contact: Kathie Evans

QC Level: LEVEL 2

Contact's Email: pm@torrentlaboratory.com;
oadmin@torrentlaboratory.com

Comments:

Date Logged: 12/21/2022

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	2212180-001A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 20:17	5 days	12/28/2022		☐	☐
002A	2212180-002A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 20:20	5 days	12/28/2022		☐	☐
003A	2212180-003A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 20:35	5 days	12/28/2022		☐	☐
004A	2212180-004A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 22:40	5 days	12/28/2022		☐	☐
005A	2212180-005A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 22:51	5 days	12/28/2022		☐	☐
006A	2212180-006A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 23:18	5 days	12/28/2022		☐	☐
007A	2212180-007A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 22:12	5 days	12/28/2022		☐	☐
008A	2212180-008A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 22:20	5 days	12/28/2022		☐	☐
009A	2212180-009A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 22:30	5 days	12/28/2022		☐	☐
010A	2212180-010A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 21:37	5 days	12/28/2022		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.



McC Campbell Analytical, Inc.

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

WORK ORDER SUMMARY

Client Name: TORRENT LABORATORY, INC.

Project: 2212180

Work Order: 2212F72

Client Contact: Kathie Evans

QC Level: LEVEL 2

Contact's Email: pm@torrentlaboratory.com;
oadmin@torrentlaboratory.com

Comments:

Date Logged: 12/21/2022

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
011A	2212180-011A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 21:45	5 days	12/28/2022		☐	☐
012A	2212180-012A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 21:50	5 days	12/28/2022		☐	☐
013A	2212180-013A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 21:55	5 days	12/28/2022		☐	☐
014A	2212180-014A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 21:50	5 days	12/28/2022		☐	☐
015A	2212180-015A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 21:57	5 days	12/28/2022		☐	☐
016A	2212180-016A	Soil	SM4500S2D (Acid Soluble Sulfide) <Acid Soluble Sulfide - S>	1	4OZ GJ, Unpres	☐	☐	☐	12/13/2022 22:10	5 days	12/28/2022		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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2212 F72



483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

LAB WORK ORDER NO

CoC221216001

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: Torrent Laboratory, Inc.	Company Name: McCampbell Analytical, Inc
Address: 483 Sinclair Frontage Road	Address: 1534 Willow Pass Road
City: Milpitas State: CA	City: Pittsburg State: California Zip Code: 94565
Telephone: 408.263.5258 FAX: 408.263.8293	Telephone: (925) 252-9262 FAX:
Contact: Kathie Evans	Contact Name: Sample Receiving
Contact Email: pm@torrentlaboratory.com	Special Instructions/Comments: Pls analyze for Acid Soluble Sulfide on a standard TAT. Pls send the report to pm@torrentlaboratory.com and invoice to ap@torrentlaboratory.com. Thanks & Happy Holidays
	P.O. #: EMAIL :

TURNAROUND TIME:

- ☒ 10 Work Days ☐ 3 Work Days ☐ Noon-Nxt Day
☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
☐ 5 Work Days ☐ 1 Work Days ☐ Other

SAMPLE TYPE:

Soil

REPORT FORMAT:

- ☐ QC Level IV
☐ EDF
☐ Excel/EDD

SUB_Misc_Soil
Acid Soluble
Sulfide

ANALYSIS
REQUESTED

REMARKS

LAB ID	CLIENT'S SAMPLE I.D.	DATE/TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE								
	2212180-001A	12/13/2022/20:17	Soil		402 per X								
	2212180-002A	12/13/2022/20:20	Soil										
	2212180-003A	12/13/2022/20:35	Soil										
	2212180-004A	12/13/2022/22:40	Soil										
	2212180-005A	12/13/2022/22:51	Soil										
	2212180-006A	12/13/2022/23:18	Soil										
	2212180-007A	12/13/2022/22:12	Soil										
	2212180-008A	12/13/2022/22:20	Soil										
	2212180-009A	12/13/2022/22:30	Soil										
	2212180-010A	12/13/2022/21:37	Soil										
	2212180-011A	12/13/2022/21:45	Soil										
	2212180-012A	12/13/2022/21:50	Soil										
	2212180-013A	12/13/2022/21:55	Soil										
	2212180-014A	12/13/2022/21:50	Soil										
	2212180-015A	12/13/2022/21:57	Soil										

1	Relinquished By: 	Print: L-D. Imbat	Date: 12-19-22	Time: 4:00	Received By: 	Print: Adrianna	Date: 12-20-22	Time: 10:20am
2	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

☐ YES☐ NO☐ YES☐ NO☐ YES☐ NO

N/A

Date:

Date:

7.9 blue



Sample Receipt Checklist

Client Name: Torrent Laboratory, Inc.
Project: 2212180

Date and Time Received: 12/20/2022 10:12

Date Logged: 12/21/2022

Received by: Adrianna Cardoza

Logged by: Adrianna Cardoza

WorkOrder No: 2212F72 Matrix: Soil
Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	NA ☐
Custody seals intact on sample bottles?	Yes ☒	No ☐	NA ☐
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☒	No ☐	

(Ice Type: BLUE ICE)

Sample/Temp Blank temperature	Temp: 7.9°C	NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐ No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes ☐ No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes ☐ No ☐	NA ☒

Comments:

REVISED PHASE III CLEAN-UP PLAN

772 and 758 Pacific Avenue

San Francisco, California

Prepared For:

Chinatown Community Development Center
1525 Grant Avenue
San Francisco, California 94133

Prepared By:

Langan CA, Inc.
135 Main Street, Suite 1500
San Francisco, California 94105



Sarah Middleton
Senior Staff Geologist



Peter J. Cusack
Associate Principal

9 April 2025
731764201

LANGAN

9 April 2025

Ms. Bo Han
Chinatown Community Development Center
1525 Grant Avenue
San Francisco, California 94133

**SUBJECT: Revised Phase III Clean-Up Plan
772 and 758 Pacific Avenue
San Francisco, California
Langan Project No. 731764202**

Dear Members of the Development Team:

Langan CA, Inc. (Langan) is pleased to submit this Revised Phase III Clean-Up Plan (CUP), for the property located at 772 and 758 Pacific Avenue in San Francisco, California.

In preparing this Revised Phase III CUP, we have endeavored to observe that degree of care and skill generally exercised by other consultants undertaking similar studies at the same time, under similar circumstances and conditions, and in the same geographical area.

We appreciate the opportunity to assist you with this project. If you have any questions or need any information clarified, please call us.

Sincerely,
Langan CA, Inc.



Sarah Middleton
Senior Staff Geologist



Peter J. Cusack
Associate Principal

731764201.03R Phase III_772 & 758 Pacific Ave_San Francisco

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**REVISED PHASE III CLEAN-UP PLAN
772 and 758 Pacific Avenue
San Francisco, California**

1.0 INTRODUCTION

Langan CA, Inc. (Langan) has prepared this Revised Phase III Clean-Up Plan (CUP) on behalf of Chinatown Community Development Center (CCDC) ("Client") for the proposed development project located at 772 and 758 Pacific Avenue in San Francisco, California (the "site," Figure 1). The site is approximately 11,450 square feet (0.26 acres) in size and is bound by Pacific Avenue to the south, commercial buildings to the east and west and mixed commercial and residential buildings to the north. The site is currently developed with a two-story commercial building (772 Pacific Avenue) occupied by New Asia Supermarket and a two-story mixed-use building occupied by a Chinese restaurant with a residential unit on the second floor (758 Pacific Avenue). The site is identified by the City and County of San Francisco Assessor Parcel Number (APN) 0161-014 and 0161-015.

2.0 PROJECT DESCRIPTION

We understand the existing buildings at the site will be demolished and the proposed project will consist of a 15-story building above one basement level with around 200 units of affordable housing.

3.0 ENVIRONMENTAL ASSESSMENTS

Langan previously prepared the following environmental reports for the site. The reports are summarized below.

- Langan Engineering and Environmental Services, Inc., *Phase I Environmental Site Assessment, 772 and 758 Pacific Avenue, San Francisco, California*, dated 2 June 2023; and
- Langan CA, Inc., *Phase II Environmental Site Assessment, 772 and 758 Pacific Avenue, San Francisco, California*, dated 28 March 2024.

3.1 Langan – Phase I ESA – June 2023

Langan conducted a Phase I ESA in June 2023 for the site. At the time of the report, the site was occupied by the current commercial tenants. Based on a historical review of the property, Langan identified four recognized environmental conditions (RECs) for the site, which included the following:

- **Potential Presence of Historical UST:** A 1953 San Francisco Fire Department permit indicates a 1,000-gallon gasoline underground storage tank (UST) was installed within the sidewalk area at the 772 Pacific Street address in association with the former sheet metal business. There is no documentation available regarding the removal of the UST. Golden Gate Tank Removal, Inc. conducted a “Visual Property Inspection for Underground Fuel Tanks” on 26 September 2016 and provided a one-page document confirming the lack of visual evidence of the UST at the site. During site reconnaissance activities, Langan did not identify any visual evidence of a UST. Because there are no records of the UST removal at the site, Langan considers the potential presence of the historical gasoline UST and associated unknown subsurface conditions as a REC.
- **Presence of Contaminated Fill Material:** Based on the results of Langan’s subsurface investigation at the site conducted in December 2022, concentrations of heavy metals including lead are present in shallow soils exceeding State of California Class I non-Resource Conservation and Recovery Act (RCRA) hazardous waste levels. The presence of metals in soil is likely attributable to historic fill material. The site is adjacent to properties included within the expanded San Francisco Public Health Code (SFPHC) Article 22A Maher Ordinance Zone boundary. According to Langan’s 2023 subsurface investigation, the site is underlain by up to approximately 13 feet of undocumented fill material. Langan considers the presence of the contaminated fill material to be a REC for the site.
- **Regional Petroleum Hydrocarbon Contamination:** Based on the results of Langan’s subsurface investigation at the site conducted in December 2022, concentrations of benzene, chloroform, and naphthalene exceeding Regional Water Quality Control Board (RWQCB) sub slab-soil gas human health risk environmental screening levels (ESLs) for residential and commercial/industrial exposure are present in soil vapor beneath the site. According to historical records, gasoline service stations and automotive repair shops with USTs have been in the vicinity of the site since the 1920s. Based on the location of the site relative to multiple closed leaking underground storage tank (LUST) cases and EDR HIST AUTO facilities, Langan concludes the petroleum hydrocarbon contamination below the site is a result of an off-site release or releases. The presence of petroleum hydrocarbon contamination below the site, emanating from an off-site source or sources, is evidence of a release affecting the environmental integrity of the site and therefore constitutes a REC.
- **Regional Chlorinated Solvents Contamination:** Based on the results of Langan’s subsurface investigation conducted in December 2022, concentrations of tetrachloroethene (PCE) exceeding RWQCB residential ESLs are present in soil vapor below the site. According to the EDR database report, there are approximately 23 properties listed on the EDR HIST CLEANER database located upgradient and within ¼ mile of the site with operations beginning as early as the 1930s. It is possible for dry cleaners to have discharged hazardous substances to the subsurface environment during this time. Langan considers the known soil vapor contamination and potential for associated vapor intrusion in site buildings to be a REC for the site.

3.2 Langan – Phase II ESA – 28 March 2024

Langan performed a Phase II ESA in December 2022 to evaluate the environmental quality of the soil and soil vapor that may be encountered during proposed development. In addition, soil samples were analyzed for constituents to satisfy waste profiling scenarios generally accepted by landfills.

On 13 December, six exploratory borings, LB-2 through LB-7, were advanced to depths of approximately five feet below the ground surface (bgs) by hand-auger methods at the locations shown on Figure 2. Discrete soil samples were collected from each location at approximate depths of 1.5, 3.0, and 5.0 feet bgs. Exploratory boring logs are available in Appendix A as Figures A-1 to A-6. The soil encountered was classified in accordance with the soil classification chart on Figure A-7. After completion, the boreholes were backfilled with neat cement grout and the core holes were patched with rapid-set concrete.

The objective of the soil sampling was to assess the presence of hazardous materials and petroleum hydrocarbons in the soil beneath the site that would be disturbed during the proposed construction activities. The soil samples were submitted to Torrent Laboratory Inc. a State certified laboratory in Milpitas, California for some or all of the analyses as listed below:

- Total Petroleum Hydrocarbons (TPH) gas(g), TPH diesel(d), and TPH motor oil(mo) by Environmental Protection Agency (EPA) Method 8015M;
- Volatile organic compounds (VOCs) by EPA Method 8260;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270;
- Organochlorine pesticides (OCPs) by EPA Method 8081;
- Polychlorinated biphenyls (PCBs) by EPA Method 8082;
- California Assessment Manual (CAM) 17 metals by EPA Method 6010/7000;
- Cyanide by EPA Method 4500;
- Acid Soluble Sulfides by EPA Method 4500;
- pH by EPA Method 9045C; and,
- Asbestos by California Air Resource Board (CARB) 435.

Analytical results for metal concentrations in soil were compared to the Total Threshold Limit Concentration (TTLC). Samples with concentrations of any metal in milligrams per kilograms (mg/kg) greater than 10 times the Soluble Threshold Limit Concentration value (mg/L) were also analyzed for soluble metals using the California Waste Extraction Test (WET) method and for analysis by the Federal Toxic Characteristic Leaching Procedure (TCLP). These analyses were performed to assess if metal concentrations in soil were at State and/or Federal hazardous waste levels.

Four sub-slab soil vapor pins (LV-3-SV, LV-4-SV, LV-5-SV, and LV-7-SV) were installed near select soil boring locations as shown on Figure 2 following soil sampling, backfill, and grouting. The temporary soil vapor pins were installed in the slab and sampled on 13 and 14 December 2022. After waiting at least two hours, the four sub-slab samples were collected. Helium within a vapor shroud was used as a tracer gas around the sampling assembly and above the vapor pin boring to check for leaks in the sample train and as a quality assurance/quality control measure to confirm the sample integrity. The sub-slab soil vapor sample was collected in one-liter laboratory supplied summa canister and sealed before delivery under COC protocol to McCampbell Analytical Laboratory, a State certified analytical laboratory in Pittsburg, California for analysis of VOCs via USEPA Method TO-15 SIM, helium, oxygen, methane, and carbon dioxide by ASTM D-1946.

The soil vapor sampling was conducted in general accordance with procedures established by the California Department of Toxic Substances Control (DTSC), which is outlined in the documents titled “Advisory – Active Soil Gas Investigation” dated July 2015 and “Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air” dated October 2011.

3.2.1 Soil Analytical Results

Soil analytical results for parameters other than metals are summarized in Table 1. The results of the investigation were compared to 2019 RWQCB ESLs for residential and commercial land use. TPHd was detected above laboratory reporting limits in eight of the 16 samples analyzed, at concentrations between 2.17 milligram per kilogram (mg/kg) and 9.63 mg/kg, none of which exceeded the residential or commercial ESLs. TPHmo was detected above laboratory reporting limits in 12 of the 16 samples analyzed, at concentrations ranging between 5.74 mg/kg and 43.2 mg/kg, none of which exceeded the residential or commercial ESLs. TPHg was not detected in any of the 16 samples analyzed. A total of 19 SVOC compounds (see Table 1 for full list) were detected above the laboratory reporting limits in nine of the 16 samples analyzed at

concentrations ranging from 0.0104 mg/kg to 0.313 mg/kg. No SVOC compounds were detected above the residential or commercial ESLs.

One OCP compound, 4,4-DDE, was detected above the laboratory reporting limits in one of the 16 samples analyzed. No OCP compounds were detected above residential or commercial ESLs in any soil samples. No VOCs, PCBs, cyanides, acid soluble sulfides, or asbestos were detected above laboratory reporting limits in the samples analyzed.

The metals analytical results are summarized in Table 2. Total lead was detected above laboratory reporting limits in all 16 of the samples analyzed, at concentrations ranging between 2.45 mg/kg and 846 mg/kg. Four of the samples had detected concentrations of total lead above 50 mg/kg (10 times the STLC) and were subsequently analyzed for STLC lead to determine soluble lead levels. STLC lead was detected above the laboratory reporting limit in each of the four samples analyzed at concentrations ranging from 0.987 milligram per liter (mg/L) to 72.7 mg/L. STLC lead was detected at a concentration exceeding the STLC State of California hazardous waste criteria of 5 mg/L in two of the four samples analyzed. Three samples were analyzed for TCLP lead to determine soluble lead levels. TCLP lead was detected above the laboratory reporting limit in one of the three samples analyzed at a concentration of 0.873 mg/L, which does not exceed the Federal hazardous waste criteria of 5 mg/L. Four soil samples exceeded the residential ESL for lead of 82 mg/kg.

Total chromium was detected above the laboratory reporting limit in each of the 16 samples analyzed at concentrations ranging from 44.3 mg/kg to 103 mg/kg. None of the total chromium concentrations detected exceed the TTLC State of California hazardous waste criteria of 2,500 mg/kg. Total chromium in 14 soil samples was detected at a concentration above 50 mg/kg (10 times the STLC) and were subsequently analyzed for STLC chromium to determine soluble chromium levels. STLC chromium was detected above the laboratory reporting limit in eight of the 16 samples analyzed at concentrations ranging from 0.234 mg/L to 1.71 mg/L, none of which exceeded the STLC State of California hazardous waste criterion of 5 mg/L.

Total mercury was detected above the laboratory reporting limit in six of the 16 samples analyzed at concentrations ranging from 0.14 mg/kg to 13 mg/kg. Total mercury in three sample (LB-2-1.5, LB-2-3.0, and LB-5-1.5) was detected at concentrations above 2.0 mg/kg (10 times the STLC) and was subsequently analyzed for STLC mercury to determine soluble mercury levels. STLC mercury was not detected above the laboratory reporting limits in any of the samples analyzed.

The remaining metal concentrations were below ESLs or within normal background ranges found in the San Francisco Bay Area.

3.2.2 Soil Vapor Analytical Results

Soil vapor analytical results are presented in Table 3. Sixteen VOCs (see Table 3 for full list) were detected above their respective laboratory reporting limits in the four samples analyzed. Benzene was detected in three of four samples analyzed above the residential ESL of 3.2 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) at concentrations between 3.2 $\mu\text{g}/\text{m}^3$ and 4.5 $\mu\text{g}/\text{m}^3$. Chloroform was detected in two of the four samples analyzed above the residential ESL of 4.1 $\mu\text{g}/\text{m}^3$ at concentrations of 13 $\mu\text{g}/\text{m}^3$ and 24 $\mu\text{g}/\text{m}^3$. Naphthalene was detected above the commercial ESL of 12 $\mu\text{g}/\text{m}^3$ at a concentration of 39 $\mu\text{g}/\text{m}^3$ in one sample (LB-7-SV). PCE was detected above the residential ESL of 15 $\mu\text{g}/\text{m}^3$ at a concentration of 27 $\mu\text{g}/\text{m}^3$ in one sample (LB-4-SV). The remaining VOCs in soil vapor were below their respective ESLs.

Helium was used as a tracer gas around the sampling assembly and borehole during sample collection as a quality assurance/quality control (QA/QC) measure to confirm the sample integrity. No helium was detected above the laboratory reporting limit in the soil vapor samples analyzed. Oxygen and carbon dioxide were analyzed to assess the potential for petroleum vapor bio-attenuation in the shallow soil zone beneath the site. Oxygen was detected above the laboratory reporting limit in each of the soil vapor samples analyzed at levels ranging from 16 to 25 percent by volume (%V). Carbon dioxide was detected above the laboratory reporting limit in each of the soil vapor samples analyzed at concentrations ranging from 0.0044 to 1.1 %V.

4.0 SITE AND SUBSURFACE CONDITIONS

4.1 Site Conditions

The site is currently developed with a two-story at grade commercial building (772 Pacific Avenue) occupied by New Asia Supermarket and a two-story at grade mixed use building occupied by a Chinese restaurant with a residential unit on the second floor (758 Pacific Avenue). The general site topography slopes down to the southeast, with adjacent ground surface elevations ranging from about Elevation 88 feet¹ at the northwestern corner of the site to about Elevation 83 feet at the southeastern corner of the site. The existing buildings are bordered by Pacific Avenue on the

¹ Approximate ground surface elevations taken from the National Oceanographic and Atmospheric Administration (NOAA) database. Elevations in this report reference the North American Vertical Datum of 1988 (NAVD88).

south and by low-rise commercial and residential buildings on the west, north, and east. Neighboring buildings are constructed at grade and are likely supported on shallow foundations.

4.2 Subsurface Conditions

The site is generally underlain by up to about 13½ feet of undocumented fill over dense to very dense sand which is in-turn likely underlain by bedrock. The undocumented fill consists of very soft to stiff clay with interbedded medium dense sand. The undocumented fill is underlain by dense to very dense sand, which was encountered between depths of five and 13½ feet bgs.

Groundwater was not encountered in any of the borings or CPTs. The mapped historical high groundwater level at the site is shown to be about 10 to 15 feet beneath street grades (California Division of Mines and Geology, 2000). The groundwater level may fluctuate several feet seasonally, depending on rainfall conditions.

5.0 DISCUSSION

The results of Langan's subsurface investigation indicate that the site is underlain by one to three feet of fill material in some locations with elevated concentrations of heavy metals. Based on the analytical results from our subsurface investigation and previous environmental testing, two soil samples exceed the State of California hazardous waste criteria and will require disposal as State of California Class I non-RCRA hazardous waste. The areas containing material exceeding State of California Class I non-RCRA hazardous criteria are presented in Figure 3. Soil samples collected from boring LB-5 at a depth of 1.5 feet bgs, and boring LB-7 at a depth of 1.5 feet bgs exceeded the State of California hazardous waste criteria. The material in these areas will most likely be disposed of as a State of California Class I non-RCRA hazardous waste and/or will require additional testing during construction.

The remaining fill material on-site (outside of the areas with concentrations exceeding hazardous waste thresholds) will most likely be disposed of as Class II non-hazardous material due to heavy metals concentrations. Final soil acceptance is dependent on the receiving landfill or facility's acceptance criteria.

Because fill material exists beneath the site, a health and safety plan (HASP) (prepared by others) should be prepared and implemented prior to construction. This Revised Phase III CUP provides recommended measures to mitigate the long-term environmental or health and safety (H&S) risks caused by the presence of heavy metals in the soil. The HASP will outline proper soil

handling procedures and health and safety requirements to minimize worker and public exposure to heavy metals during construction activities.

As a result of the concentrations of PCE exceeding its RWQCB ESL in soil vapor, Langan recommends the installation of a vapor intrusion mitigation system (VIMS) be included in future building design as a conservative vapor mitigation measure. The recommended passive vapor barrier would consist of a continuous, spray-applied vapor barrier membrane located immediately beneath the structural building slab. Below-grade utility conduits entering the building will be sealed to prevent VOC migration along the conduits from outside the building into the sub-slab space beneath the building. The proposed design of the vapor barrier will be performed by a professional engineer (PE) registered in the State of California. In addition, the design engineer will perform construction observation during the installation of the various components of the VIMS.

6.0 RECOMMENDATIONS FOR MITIGATIVE ACTIONS

The results of the environmental investigations at the site indicate that the site is underlain by a layer of fill material with heavy metals and VOCs are present within soil vapor. The presence of these compounds in undocumented fill material poses soil management and potential H&S issues, as part of the site development activities. The soil management objectives for the site are to minimize exposure of constituents in the soil to construction workers at the site, nearby residents and/or pedestrians, and future users of the site.

6.1 Health and Safety Measures

The contractor will be responsible for establishing and maintaining proper H&S procedures to minimize worker and public exposure to site contaminants during construction.

6.1.1 Health and Safety Plan

The potential health risk to on-site construction workers and the public will be minimized by developing and implementing a comprehensive HASP. The purpose of the HASP is to provide field personnel with an understanding of the potential chemical and physical hazards, protection of any off-site receptors, procedures for entering the project site, H&S procedures, and emergency response to hazards should they occur. All project personnel shall read and adhere to the procedures established in this HASP. A copy of this plan will be kept on site during field activities and will be reviewed and updated, as necessary.

The HASP will describe the H&S training requirements (i.e., trained in accordance with Section 1910.120 of 29 Code of Federal Regulations (HAZWOPER training, if needed), specific personal hygiene, and monitoring equipment that will be used during construction to protect and verify the H&S of the construction workers and the general public from exposure to constituents in the soil.

6.1.2 Health and Safety Officer

A site health and safety officer (HASO) identified in the HASP will be on site at all times during excavation activities to ensure that all H&S measures are maintained. The HASO will have authority to direct and stop (if necessary) all construction activities in order to ensure compliance with the HASP. The HASO will be responsible for evaluating any change in site conditions and may stop work to determine if the level of site security and personal protection equipment (PPE) is adequate.

The general public will be protected through the following measures:

- the site will be fenced;
- exposed soil at the construction site will be watered at least twice a day to prevent visible dust from migrating off site;
- soil stockpiles will be covered;
- water will be misted or sprayed during the loading of soil onto trucks for off haul;
- trucks transporting contaminated soil will be covered with a tarpaulin or other cover;
- the wheels of the trucks exiting the site will be cleaned prior to entering public streets;
- public streets will be swept daily if soil is visible; excavation and loading activities will be suspended if winds exceed 20 miles per hour; and
- the fence will be posted with requirements of the safe drinking water and toxic enforcement act (Proposition 65).

6.2 Soil Management

The construction activities will disturb soil during excavation and renovation. During all earthwork activities, soil management, dust control measures, and air monitoring using an organic vapor meter (OVM) and/or photoionization detector (PID) will be implemented to reduce the potential exposure of construction workers, off site receptors, and future site users to constituents in the

soil and soil vapor. The following sections outline specific mitigation measures for the on-site movement of soils; material segregation and disposal; and stockpile soil sampling (if necessary).

6.2.1 On-Site Movement of Soils

Based on the analytical results of the subsurface investigations at the site, two of the soil samples exceeded hazardous waste criteria. For environmental purposes, soil within the boundaries of the site may be moved within or between various portions of the site, managed and re-used without need for sampling, provided the soils are not adjacent to documented or newly discovered soil contamination or unanticipated subsurface conditions, and provided the soil meets site geotechnical requirements. Soil from grids which exceed the criteria for hazardous waste classification will be allowed only for placement back within the grid in which it originated or for potential reuse within other grids that also exceeded the criteria for hazardous waste classification. Soil re-use should be discussed with the geotechnical engineer prior to initiating grading activities. Fill material and native soils should be segregated appropriately during on-site soil movement.

6.2.2 Material Segregation and Disposal

Soils will be segregated based on the pre-profiling results. Soils profiled as hazardous, if encountered, will be either: (1) reused on site in other areas of hazardous soil and kept separate from clean soil generated during site renovation activities; (2) segregated into separate stockpiles from clean soil; or (3) loaded directly onto appropriately licensed trucks and transported to an appropriate off-site facility.

It is recommended that stockpiles be lined with polyethylene plastic sheeting (10 mil minimum thickness) beneath and above the soil to prevent runoff/runoff and fugitive dust emissions. Stockpile lining and covering are mandatory for contaminated soils. Stockpiled soil will be covered and secured at the end of each day.

Based on the proposed renovation of the site, excavation activities will be limited to the depths of proposed foundation elements. Based on the limited area of the site, any excavated soil generated during the construction activities is planned to be stockpiled and reused or directly loaded into trucks for off-site disposal. If soil stockpiling of suspected contaminated soil is to be performed, the excavation contractor shall establish appropriate soil stockpile locations on the site to properly segregate, cover, control dust, profile, and manage the excavated soil. Stockpiled soils are to be placed on top of one layer of 10-mil polyethylene sheeting (or equivalent), such as

Visqueen. When stockpiled soil is not actively being handled, top sheeting will be adequately secured so that all surface areas are covered.

The contractor will establish appropriate off-site disposal locations and direct truck loading scheduling and/or stockpile locations on the site to properly segregate, cover, moisture control, and profile the excavated material. Profiling criteria will ultimately depend on the acceptance criteria of the facilities receiving the material. These procedures will be established by the excavation contractor and coordinated with the proposed facilities prior to initiating excavation.

The contractor, on behalf of the owner, will be responsible for tracking final material dispositions. Though not expected based on the current analytical results, any excavated material considered State of California or Federal RCRA hazardous waste will be tracked using the Uniform Hazardous Waste Manifest System (USEPA Form 8700-22), as applicable. Material not considered hazardous waste will be tracked using non-hazardous bills of lading. These two systems will be used to comply with appropriate state and local requirements. All manifest and bills of lading will be provided to Langan during the excavation activities.

The contractor will arrange for transportation of all soil and material generated during construction for off-site disposal. The excavated material will be transported to the appropriate disposal facility using a permitted, licensed, and insured transportation company. If needed, transporters of hazardous waste must meet the requirements of 40 CFR 263 and 22 CCR 66263. All trucks transporting bulk hazardous waste will be properly lined and covered with compatible materials.

Any material that is to be exported off-site that is characterized as a hazardous waste will require an appropriate USEPA Generator Identification (ID) Number. This USEPA ID number will be recorded on the hazardous waste manifests used to document transport of hazardous waste off-site. The hazardous waste transporter, disposal facility, and U.S. Department of Transportation (DOT) waste description required for each manifest will be determined on a case-by-case basis. A description of the number of containers being shipped, the type of container, and the total quantity of waste being shipped will also be included on each manifest.

The contractor will be responsible for accurate completion of the hazardous waste manifests (if necessary) and non-hazardous bills of lading. Records of all wastes shipped off-site will be maintained by the contractor and will be made available for review on request. The final destination of wastes transported off-site will be documented in the Site Closure Report (Section 7.8).

6.2.3 Soil Sampling

If needed, chemical testing of stockpiled soil will be performed to profile material for off-site disposal. Soil profiling criteria depends on the proposed landfill location or off-site receiving facility. These procedures shall be established by the excavation contractor and coordinated with the proposed landfills or receiving facility prior to initiating soil excavation. Typical soil profiling requirements for landfills or receiving facilities follow the guidelines established by the DTSC Information Advisory, Clean Imported Fill Material dated October 2001, which is a common industry practice for soil characterization. The recommend sampling schedule for soil stockpiles is one four-point composite sample per 250 cubic yards for the first 1,000 cubic yards; one four-point composite sample per 500 cubic yards from 1,000 to 5,000 cubic yards; and one four-point composite sample per 1,000 cubic yards after exceeding 5,000 cubic yards of material generation. If necessary, the samples will be analyzed for analyses typically required by regulated landfills, which may include some or all of the following:

- TPHg, TPHd, and TPHmo by Modified EPA Method 8015M;
- VOCs by EPA Method 8260B;
- SVOCs by EPA Method 8270C;
- OCPs by EPA Method 8081A;
- PCBs by EPA Method 8082;
- California Assessment Metals (CAM) 17 metals by EPA Method 6020; and
- Asbestos by California Air Resource Board (CARB) 435.

The soil sampling frequency and analytical schedule will be established by the landfill and/or receiving facility and coordinated by the general contractor or excavation subcontractor.

If soil samples are required for analysis, the samples shall be collected using a clean stainless-steel liner driven into the soil. The ends of the sample liner shall be covered with Teflon and sealed with plastic end caps and placed into an ice-chilled cooler until delivery under chain-of-custody protocol to a California-certified analytical laboratory. The soil samples collected from the stockpile shall be identified by using a progressive numbering sequence with the date of the sample collection and the location. All appropriate regulatory sampling methods, holding times, and detection limits shall be followed.

6.2.4 Soil Import

If importing soil is necessary for construction, the material should be reviewed by both the environmental and geotechnical engineer for acceptance. The DTSC Information Advisory, Clean Imported Fill Material dated October 2001 will be used to evaluate the environmental chemistry of the import material, and results should be compared to the January 2019 RWQCB ESLs Direct Exposure Human Health Risk Levels (Table S-1) Residential and Commercial Shallow Soil Exposure cancer risk and non-cancer hazardous screening criteria. Metal compounds will also be compared to background concentrations typically found in Bay Area soils, and State and Federal Hazardous waste criteria.

6.3 Groundwater Management

Groundwater was not encountered during our subsurface investigations. The proposed construction activities most likely will not encounter groundwater in quantities that may require its removal from the subsurface. If dewatering and removal of groundwater is required for construction, a permit should be obtained from SFPUC prior to any groundwater discharge. SFPUC determines final acceptance of the groundwater into the combined sanitary sewer system according to the guidelines established in the SFPUC *Batch Wastewater Discharge Permit Requirements* dated 18 May 2012.

6.4 Odor Control

When needed, odor suppression measures will be implemented by the contractor to minimize odor during excavation activities. Mitigation measures to be considered for minimization of odors during excavation activities include but are not limited to: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; (c) use of foams to cover exposed odorous soil material; (d) use of chemical odorants in spray or misting systems; and (e) use of staff to monitor odors in surrounding area.

6.5 Vapor Mitigation

As described in Section 3.2, soil gas concentrations of four VOC compounds exceed cancer-risk ESLs under the residential scenario. As a result, the proposed structure at the site will be designed to mitigate against potential vapor intrusion from the soil gas into indoor air. The VMS will consist of a continuous, spray-applied vapor barrier membrane located immediately beneath the structural building slab. Below-grade utility conduits entering the building will be sealed to prevent VOC migration along the conduits from outside the building into the sub-slab space

beneath the buildings. The proposed design of the VMS will be performed by a professional engineer (PE) registered in the State of California.

In addition, the design engineer will perform construction observation during the installation of the various components of the VMS.

6.6 Contingency Procedures

Hazardous materials or unanticipated subsurface conditions; including, but not limited to, underground storage tanks (USTs), sumps and/or vaults, former monitoring wells, and soil with petroleum hydrocarbon odors and/or stains may be encountered during excavation activities. If unanticipated hazardous materials or subsurface conditions are encountered, the following procedures should be implemented:

- Stop work in the area where the suspect material or feature was encountered and cover it with plastic sheeting;
- Notify the site superintendent, the owner, and Langan for a site visit and appropriate action in the suspect area; and
- Review the existing HASP and make revisions, if necessary; and have appropriately trained personnel on-site to work with the affected materials, once directed by the contractor.

If a UST and/or and associated product lines are found, arrange for a licensed hazardous substances removal contractor (Department of Consumer Affairs, Contractors State License Board, Business & Professions Code, Division 3, Chapter 9 Contractors, Article 4 Classifications, Section 7058.7) to properly remove and dispose of the UST. Proper permits and notifications (including with, but not limited to, San Francisco Department of Public Health (SFDPH) and San Francisco Fire Department [SFFD]) should be in place prior to removing the UST. If soil staining is observed, place the affected soil into a stockpile onto plastic sheets and cover with plastic sheets. Langan will complete soil sampling and analysis tasks for UST closure in accordance with SFDPH and SFFD requirements.

If a sump and/or vaults are encountered during excavation activities, contact the owner and Langan for a site visit and appropriate action. If no liquid, obvious staining, or odors are observed, sump and/or vaults will likely be destroyed and disposed of off-site. If liquid or soil is present within the sump and/or vault and/or obvious staining and odors are observed, Langan will collect samples for analyses to determine how to properly manage disposal of the material.

If stained soil or odors are observed, plastic sheeting will be placed over the affected area by contractor and the owner and Langan will be contacted for documentation and appropriate action. If the material is to be excavated, the material will be stockpiled onto plastic sheeting and covered with plastic sheeting. Soil samples will be collected and analyzed to determine proper disposal of the material.

6.7 Closure Report

A Closure Report will be prepared by Langan upon completion of site mitigation activities. This report will present a chronology of the construction events, a summary of analytical data, bills of lading, manifests, weight tickets, and a description of all mitigation activities at the site. It will also include a certification statement that indicates the mitigation activities have been performed in accordance with this Revised Phase III CUP.

7.0 LIMITATIONS

Descriptions of specific field activities and historical events are based on our observations and on information provided by others. The opinions and information presented in this report apply to site conditions and the information that was available at the time the work was performed and do not apply to changes of which we are not aware or have not had the opportunity to evaluate. Langan makes no guarantees or warranties with respect to the accuracy or completeness of this information.

TABLES

Table 1
Soil Analytical Results for Non-metals
772 Pacific Avenue
San Francisco, California

731764201
March 2024

Sample ID	Sample Depth (feet bgs)	Date Sampled	TPHg	TPHd	TPHmo	VOCs	N-nitroso -di-n-propylamine	Acenaph-thene	Dibenozo-furan	Fluorene	Phenan-threne	Anthracene	Carbazole	Fluoroan-thene	Pyrene	Benzo(a)-anthracene	Chrysene	Bis (2-ehthylhexyl) phthalate	Benzo(b) fluoroan-thene	Benzo(k) fluoroan-thene	Benzo(a) pyrene
			mg/kg																		
LB-2-1.5	1.5	12/13/2022	< 0.043	6.95 x	43.2	ND	< 0.0132	0.0109 J	0.013 J	0.011J	0.078 J	0.0168 J	0.0119 J	0.0654 J	0.0763 J	0.0311 J	0.0419 J	0.0755 J	0.0632 J	0.0104 J	0.0183 J
LB-2-3.0	3.0	12/13/2022	< 0.043	3.77 x	16.6	ND	0.0141 J	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0177 J	< 0.0098	< 0.0152	0.0302 J	< 0.012	< 0.00816	< 0.0098
LB-2-5.0	5.0	12/13/2022	< 0.043	2.17 x	9.64	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-3-1.5	1.5	12/13/2022	< 0.043	9.63 x	8.00	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0186 J	< 0.0098	< 0.0152	0.0224 J	< 0.012	< 0.00816	< 0.0098
LB-3-3.0	3.0	12/13/2022	< 0.043	4.73 x	6.14	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0137 J	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-3-5.0	5.0	12/13/2022	< 0.043	2.91 x	10.4	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	0.0186 J	< 0.012	< 0.00816	< 0.0098
LB-4-1.5	1.5	12/13/2022	< 0.043	< 0.66	< 0.76	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0149 J	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-4-3.0	3.0	12/13/2022	< 0.043	< 0.66	< 0.76	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-4-5.0	5.0	12/13/2022	<0.043	< 0.66	< 0.76	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	0.0223 J	< 0.012	< 0.00816	< 0.0098
LB-5-1.5	1.5	12/13/2022	< 0.043	3.79 x	17.5	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	0.0673 J	0.0118 J	< 0.0107	0.0724 J	0.0811 J	0.0565 J	0.0677 J	< 0.0153	0.0797 J	0.0266 J	0.0790 J
LB-6-2.0	2.0	12/13/2022	< 0.043	< 0.66	5.82	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-6-3.5	3.5	12/13/2022	< 0.043	< 0.66	< 0.76	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-6-5.0	5.0	12/13/2022	< 0.043	< 0.66	6.38	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-7-1.5	1.5	12/13/2022	< 0.043	2.51 x	22.4	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	0.0168 J	< 0.0098	< 0.0152	0.313 J	< 0.012	< 0.00816	< 0.0098
LB-7-3.0	3.0	12/13/2022	< 0.043	< 0.66	6.32	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
LB-7-5.0	5.0	12/13/2022	< 0.043	< 0.66	5.74	ND	< 0.0132	< 0.0107	< 0.0112	< 0.0103	< 0.00932	< 0.00891	< 0.0107	< 0.010	< 0.012	< 0.0098	< 0.0152	< 0.0153	< 0.012	< 0.00816	< 0.0098
Screening Criteria (mg/kg)																					
RWQCB Tier 1 ESLs ¹			100	260	100	Various	--	12,000	--	6	7.8	1.9	--	0.69	7.8	0.63	2.2	0.8	1.1	2.8	0.11
RWQCB Residential ESLs - Cancer Risk ¹			--	--	--	Various	--	--	--	--	--	--	--	--	--	1.1	110	39	1.1	11	0.11
RWQCB Residential ESLs - Non-Cancer Hazard ²			430	260	12,000	Various	--	3600	--	2400	--	18000	--	2400	1800	--	--	1300	--	--	18
RWQCB Commercial / Industrial ESLs - Cancer Risk ³			--	--	--	Various	--	--	--	--	--	--	--	--	--	20	2100	160	2.1	210	2.1
RWQCB Commercial / Industrial ESLs - Non-Cancer Hazard ⁴			2,000	1,200	180,000	Various	--	45,000	--	30,000	--	2300000	--	30000	23,000	--	--	16000	--	--	220
Asbestos Toxic Control Measure ⁵			--	--	--	--															

Table 1
Soil Analytical Results for Non-metals
772 Pacific Avenue
San Francisco, California

Sample ID	Sample Depth (feet bgs)	Date Sampled	Indeno (1,2,3-c,d) pyrene	Benzo (g,h,i) perylene	Naphthalene	2-Methylnaphthalene	All Other SVOCs	4,4 - DDE	All Other OCPs	PCBs	Total Cyanides	pH	Asbestos
			mg/kg										%
LB-2-1.5	1.5	12/13/2022	0.0153 J	< 0.0167	0.0299 J	0.013 J	ND	0.000679 J	ND	ND	ND	5.79	ND
LB-2-3.0	3.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	6.72	ND
LB-2-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	6.63	ND
LB-3-1.5	1.5	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.73	ND
LB-3-3.0	3.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.65	ND
LB-3-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.78	ND
LB-4-1.5	1.5	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.40	ND
LB-4-3.0	3.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.72	ND
LB-4-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.50	ND
LB-5-1.5	1.5	12/13/2022	0.063 J	0.063 J	0.0262 J	< 0.0104	ND	< 0.00061	ND	ND	ND	8.17	ND
LB-6-2.0	2.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.07	ND
LB-6-3.5	3.5	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.50	ND
LB-6-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.25	ND
LB-7-1.5	1.5	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	8.19	ND
LB-7-3.0	3.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.40	ND
LB-7-5.0	5.0	12/13/2022	< 0.0138	< 0.0167	< 0.0106	< 0.0104	ND	< 0.00061	ND	ND	ND	7.12	ND
Screening Criteria (mg/kg)													
RWQCB Tier 1 ESLs ¹			0.48	2.5	0.042	0.88	Various	0.33	Various	Various	0.0034	--	--
RWQCB Residential ESLs - Cancer Risk ¹			1.1	--	3.8	--	Various	1.8	Various	Various	--	--	--
RWQCB Residential ESLs - Non-Cancer Hazard ²			--	--	130	240	Various	--	Various	Various	5.5	--	--
RWQCB Commercial / Industrial ESLs - Cancer Risk ³			21	--	17	--	Various	8.3	Various	Various	--	--	--
RWQCB Commercial / Industrial ESLs - Non-Cancer Hazard ⁴			--	--	580	3000	Various	--	Various	Various	250	--	--
Asbestos Toxic Control Measure ⁵							--			--	--	--	0.25

Table 1
Soil Analytical Results for Non-metals
772 Pacific Avenue
San Francisco, California

731764201
March 2024

Abbreviations:

TPHg = Total Petroleum Hydrocarbons as Gasoline

TPHd = Total Petroleum Hydrocarbons as Diesel

TPHmo = Total Petroleum Hydrocarbons as Motor Oil

VOCs = Volatile Organic Carbons

SVOCs = Semi-volatile Organic Carbons

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram

ug/kg = Micrograms per kilograms

ND = Not detected at or above the laboratory reporting limit

" - " = Not analyzed or screening criteria not established

< 0.5 = Analyte was not detected above the laboratory reporting limit (0.5 mg/kg).

J = Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather than quantitative

x = Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards

ESLs = Environmental Screening Levels

RWQCB = San Francisco Bay Regional Water Quality Control Board

ATCM - Asbestos Toxic Control Measure

Notes:

Underline indicates concentration is at or above Tier 1 ESLs

Bold indicates concentration is above Residential ESLs

Bold indicates concentration is above Commercial ESLs

¹ - San Francisco Bay Regional Water Quality Control Board (RWQCB), Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Tier 1 Environmental Screening Levels, dated January 2019

² - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Residential Cancer Risk Environmental Screening Levels, dated January 2019

³ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Residential Non-Cancer Risk Environmental Screening Levels, dated January 2019

⁴ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Commercial / Industrial, Cancer Risk Environmental Screening Levels, dated January 2019

⁵ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Commercial / Industrial, Non-Cancer Risk Environmental Screening Levels, dated January 2019

⁶ - Asbestos Toxic Control Measure (ATCM), California Air Resources Board regulatory threshold screening level

Table 2
Soil Analytical Results for Metals
772 Pacific Avenue
San Francisco, California

731764201
March 2024

Sample ID	Sample Depth (feet bgs)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	STLC Chromium	Cobalt	Copper	Lead	STLC Lead	TCLP Lead	Molybdenum	Mercury	STLC Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units				mg/kg					mg/L	mg/kg			mg/L		mg/kg		mg/L	mg/kg					
LB-2-1.5	1.5	12/13/2022	2.40	7.98	195	0.224 J	0.312 J	64.1	0.702	3.31	104	598	0.987	< 0.050	0.644 J	7.6	< 0.020	23.3	1.56	0.696	< 0.34	35.7	178
LB-2-3.0	3.0	12/13/2022	0.806 J	8.44	124	0.352 J	0.772 J	57.3	1.71	17.0	44.2	113	1.86	--	0.493 J	3.9	< 0.020	34.6	2.23	0.587	< 0.34	41.9	516
LB-2-5.0	5.0	12/13/2022	< 0.12	3.18	76.7	0.275 J	< 0.084	97.0	0.878	8.66	10.9	4.16	--	--	0.196 J	0.14 J	--	45.6	1.91	0.182 J	< 0.34	63.8	143
LB-3-1.5	1.5	12/13/2022	0.149 J	3.31	73.1	0.349 J	0.114 J	69.4	1.51	11.6	13.7	40.2	--	--	0.255 J	0.34 J	--	40.7	2.20	<0.098	< 0.34	54.7	85.5
LB-3-3.0	3.0	12/13/2022	< 0.12	2.92	62.6	0.305 J	< 0.084	72.6	0.387	8.95	10.6	20.9	--	--	0.180 J	< 0.083	--	40.1	1.73	< 0.098	< 0.34	49.3	52.3
LB-3-5.0	5.0	12/13/2022	< 0.12	3.01	75.2	0.329 J	0.0940 J	82.2	0.234	13.1	9.63	4.87	--	--	0.152 J	< 0.083	--	61.2	2.06	< 0.098	< 0.34	58.5	40.0
LB-4-1.5	1.5	12/13/2022	< 0.12	2.61	65.2	0.298 J	< 0.084	72.5	0.462	6.29	7.28	3.25	--	--	< 0.13	< 0.083	--	36.3	2.04	< 0.098	< 0.34	50.2	26.7
LB-4-3.0	3.0	12/13/2022	< 0.12	3.47	90.1	0.340 J	< 0.084	86.8	< 0.010	10.5	9.32	3.71	--	--	0.157 J	< 0.083	--	53.5	2.39	< 0.098	< 0.34	60.4	29.4
LB-4-5.0	5.0	12/13/2022	< 0.12	2.93	57.8	0.289 J	< 0.084	71.5	< 0.010	12.8	7.95	4.85	--	--	0.135 J	< 0.083	--	50.7	1.90	< 0.098	< 0.34	51.3	27.6
LB-5-1.5	1.5	12/13/2022	2.43	4.14	107	0.281 J	0.224 J	44.3	--	9.18	15.8	473	18.5	< 0.20	0.331 J	13.0	< 0.020	23.3	1.57	0.104 J	< 0.34	38.1	182
LB-6-2.0	2.0	12/13/2022	< 0.12	4.14	121	0.395 J	< 0.084	89.7	< 0.010	11.5	10.5	5.81	--	--	0.197 J	< 0.083	--	51.7	2.55	< 0.098	< 0.34	61.4	28.5
LB-6-3.5	3.5	12/13/2022	< 0.12	3.71	50.7	0.246 J	< 0.084	103	< 0.010	6.20	6.80	2.45	--	--	< 0.13	< 0.083	--	56.1	1.91	< 0.098	< 0.34	59.5	23.9
LB-6-5.0	5.0	12/13/2022	< 0.12	3.61	35.4	0.235 J	< 0.084	96.2	0.438	6.61	7.22	3.11	--	--	< 0.13	< 0.083	--	54.0	1.73	< 0.098	< 0.34	56.6	24.0
LB-7-1.5	1.5	12/13/2022	0.534 J	3.64	576	0.294 J	0.0960 J	49.2	--	8.85	141	846	72.7	0.873	0.320 J	0.99	--	20.9	1.72	1.70	< 0.34	32.9	204
LB-7-3.0	3.0	12/13/2022	< 0.12	3.25	70.6	0.399 J	< 0.084	75.5	< 0.010	4.35	10.1	6.21	--	--	0.262 J	< 0.083	--	22.1	2.24	< 0.098	< 0.34	50.8	20.5
LB-7-5.0	5.0	12/13/2022	< 0.12	3.13	98.6	0.345 J	< 0.084	84.5	< 0.010	8.05	7.97	10.9	--	--	< 0.13	< 0.083	--	42.5	1.90	< 0.098	< 0.34	56.3	26.0
Screening Criteria																							
RWQCB Tier 1 ESLs ¹			11	0.067	390	5	1.9	160	--	23	180	32	--	--	6.9	13	--	86	2	250	0.78	18	340
RWQCB Residential ESLs - Cancer Risk ²			--	0.067	--	1600	910	--	--	420	--	82	--	--	--	--	--	15,000	--	--	--	--	--
RWQCB Residential ESLs - Non-Cancer Hazard ³			11	0.26	15,000	16	78	--	--	23	3,100	80	--	--	390	13	--	820	390	390	0.78	390	23000
RWQCB Commercial / Industrial ESLs - Cancer Risk ⁴			--	0.31	--	6900	4000	--	--	1900	--	380	--	--	--	--	--	64000	--	--	--	--	--
RWQCB Commercial / Industrial ESLs - Non-Cancer Hazard ⁵			160	3.6	220,000	230	1,100	--	--	350	47,000	320	--	--	5,800	190	--	11000	5800	5800	12	5,800	350000
CAEPA Total Threshold Limit Concentration (TTLC)			500	500	10,000	75	100	2,500	--	8000	2500	1000	--	--	3500	20	--	2000	100	500	700	2400	5000
California Soluble Limit Concentration (STLC)			15	--	--	1	1	--	5	--	--	--	5	5	350	0.2	0.2	--	1	--	7	--	--
Federal Toxicity Characteristic Leaching Procedure (TCLP)			--	--	--	--	1	--	5	--	--	--	5	5	--	0.2	--	--	1	--	--	--	--
Background Metal Concentrations ⁶			1.5-7.1	1.2-31	41-411	0.29-1.1	0.27-3.3	10-142	--	6.2-25.5	5.4-100	4.8-65	--	--	0.33-11.4	0.07-0.6	--	16-144	< 0.25-7	0.2-2.2	< 0.25-42.5	22-90	33-282

Abbreviations:
mg/kg = miligrams per kilogram
mg/L = miligrams per liter
ND = Not detected at or above the laboratory reporting limit
" -- " = Not analyzed or screening criteria not established
64.1 - Concentration is greater than 10 times the STLC
18.5 - Concentration exceeds hazardous waste threshold
< 0.5 = Analyte was not detected above the laboratory reporting limit (0.5 mg/kg).
J = Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather than quantitative
ESLs = Environmental Screening Levels
RWQCB = San Francisco Bay Regional Water Quality Control Board
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
TCLP - Toxicity Characteristic Leaching Procedure

Notes:
Underline indicates concentration is at or above Tier 1 ESLs
Bold indicates concentration is above Residential ESLs
Bold indicates concentration is above Commercial ESLs or Hazardous Waste Criteria
Highlight indicates concentration is above Background Metal Concentrations

¹ - San Francisco Bay Regional Water Quality Control Board (RWQCB), Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Tier 1 Environmental Screening Levels, dated January 2019
² - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Residential Cancer Risk Environmental Screening Levels, dated January 2019
³ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Residential Non-Cancer Risk Environmental Screening Levels, dated January 2019
⁴ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Commercial / Industrial, Cancer Risk Environmental Screening Levels, dated January 2019
⁵ - RWQCB, Soil: Direct Exposure Human Health Risk Levels (Table S-1) Shallow Soil Commercial / Industrial, Non-Cancer Risk Environmental Screening Levels, dated January 2019
⁶ - Environmental Resources Management. Feasibility Study, Hookston Station, Pleasant Hill, California. Appensix A, Table A-1, "Comparison of Background Concentrations of Metals in Bay Area Soils," July 2006.



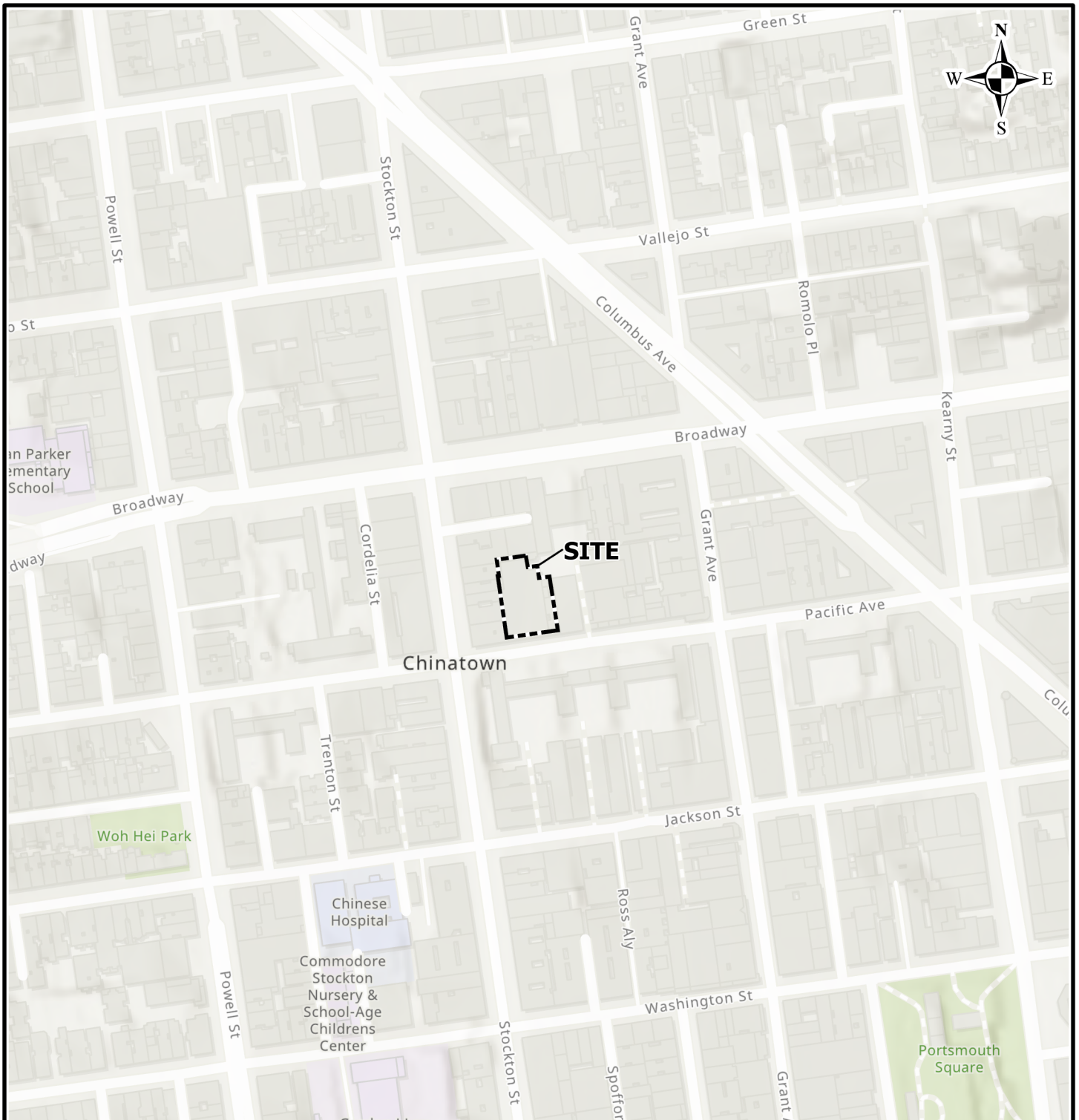
Table 3
Soil Vapor Analytical Results
772 Pacific Avenue
San Francisco, California

Sample ID	Sample Depth (feet bgs)	Date Sampled	Acetone	Benzene	2-Butanone (MEK)	Chloroform	Chloro- methane	Dichlorodi- fluoro- methane	2- Hexanone	MIBK	Naphthale ne	Styrene	PCE	Toluene	Trichloro- fluoro- methane	1,2,4- Trimethyl- benzene	Xylene (m+p)	Xylene (o)	All Other VOCs	Oxygen	Carbon Dioxide	Helium
Units			µg/m ³																	%v		
LB-3-SV	NA	12/13/2022	< 60	3.2	< 15	< 2.5	2.2	< 2.5	< 2.1	< 2.1	< 2.7	< 2.2	< 3.5	< 1.9	< 2.9	< 2.5	< 4.4	< 2.2	ND	25	0.033	ND
LB-4-SV	NA	12/13/2022	110	4.0	23	24	< 1.0	17	6.0	2.3	< 2.7	< 2.2	27	3.6	31	< 2.5	< 4.4	< 2.2	ND	16	0.90	ND
LB-5-SV	NA	12/13/2022	110	2.1	34	13	< 1.0	< 2.5	6.4	6.3	< 2.7	< 2.2	5.0	2.6	3.4	3.7	< 4.4	< 2.2	ND	16	1.1	ND
LB-7-SV	NA	12/14/2022	< 60	4.5	< 15	< 2.5	< 1.0	< 2.5	7.5	3.1	39	2.8	10	10	< 2.9	5.5	7.0	3.1	10	18	0.0044	ND
Screening Criteria (ug/m ³)																						
RWQCB Residential ESLs - Cancer Risk ¹			--	3.2	--	4.1	--	--	--	--	2.8	--	15	--	--	--	--	--	Various	--	--	--
RWQCB Residential ESLs - Non-Cancer Hazard ²			1,100,000	100	170,000	3,400	3,100	--	--	100,000	100	31,000	1,400	10,000	--	--	3,500	3,500	Various	--	--	--
RWQCB Commercial / Industrial ESLs - Cancer Risk ³			--	14	--	18	--	--	--	--	12	--	67	--	--	--	--	--	Various	--	--	--
RWQCB Commercial / Industrial ESLs - Non-Cancer Hazard ⁴			4,500,000	440	730,000	14,000	13,000	--	--	440,000	440	130,000	5,800	44,000	--	--	15,000	15,000	Various	--	--	--

Notes:
bgs - below grade surface
MIBK = Methyl isobutyl ketone
MEK = 2-Butanone
PCE - Tetrachloroethene
TCE- Trichloroethene
TPHg = Total Petroleum Hydrocarbons as Gasoline
VOCs = Volatile organic compounds
µg/m³- Micrograms per cubic meter
%v - Percent by volume
< 5.3 - Analyte was not detected above the laboratory reporting limit (5.3 µg/m³)
-- Not analyzed , or screening criteria not established
ND - Analyte Not Detected
RWQCB = San Francisco Bay Regional Water Quality Control Board

Notes:
Bold indicates concentration is at or above Residential ESLs
Bold indicates concentration is at or above Commercial ESLs
¹ - RWQCB, Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1) Residential Cancer Risk Environmental Screening Levels, dated January 2019
² - RWQCB, Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1) Residential Non-Cancer Risk Environmental Screening Levels, dated January 2019
³ - RWQCB, Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1) Commercial / Industrial, Cancer Risk Environmental Screening Levels, dated January 2019
⁴ - RWQCB, Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels (Table SG-1) Commercial / Industrial, Non-Cancer Risk Environmental Screening Levels, dated January 2019

FIGURES



Legend

 Approximate Site Boundary

Notes:

1. Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online Copyright: © 2019 National Geographic Society, i-cubed.
2. Site located in the San Francisco North USGS Quadrangle.
3. All features shown are approximate.



LANGAN

Langan Engineering and
Environmental Services, Inc.

135 Main Street, Suite 1500
San Francisco, CA 94105

T: 415.955.5200 F: 415.955.5201
www.langan.com

Project

**772 & 758 PACIFIC
AVENUE**

SAN FRANCISCO

SAN FRANCISCO COUNTY

CALIFORNIA

Figure Title

**SITE
LOCATION MAP**

Project No.

731764201

Date

3/25/2024

Scale

1" = 250'

Drawn By

AC

Figure

1



Legend

- Approximate Location of Geotechnical CPT Boring
- Approximate Location of Geotechnical DPT Boring and Environmental Soil Sample
- Approximate Location of Environmental Soil and Soil Vapor Sample
- Approximate Site Boundary

Notes:

1. Aerial imagery provided by Nearmap, 9/16/2022.
2. All features shown are approximate.

25025

SCALE IN FEET

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Langan Engineering and Environmental Services, Inc.

135 Main Street, Suite 1500
San Francisco, CA 94105

T: 415.955.5200 F: 415.955.5201 www.langan.com

Project

772 & 758 PACIFIC AVENUE

SAN FRANCISCO

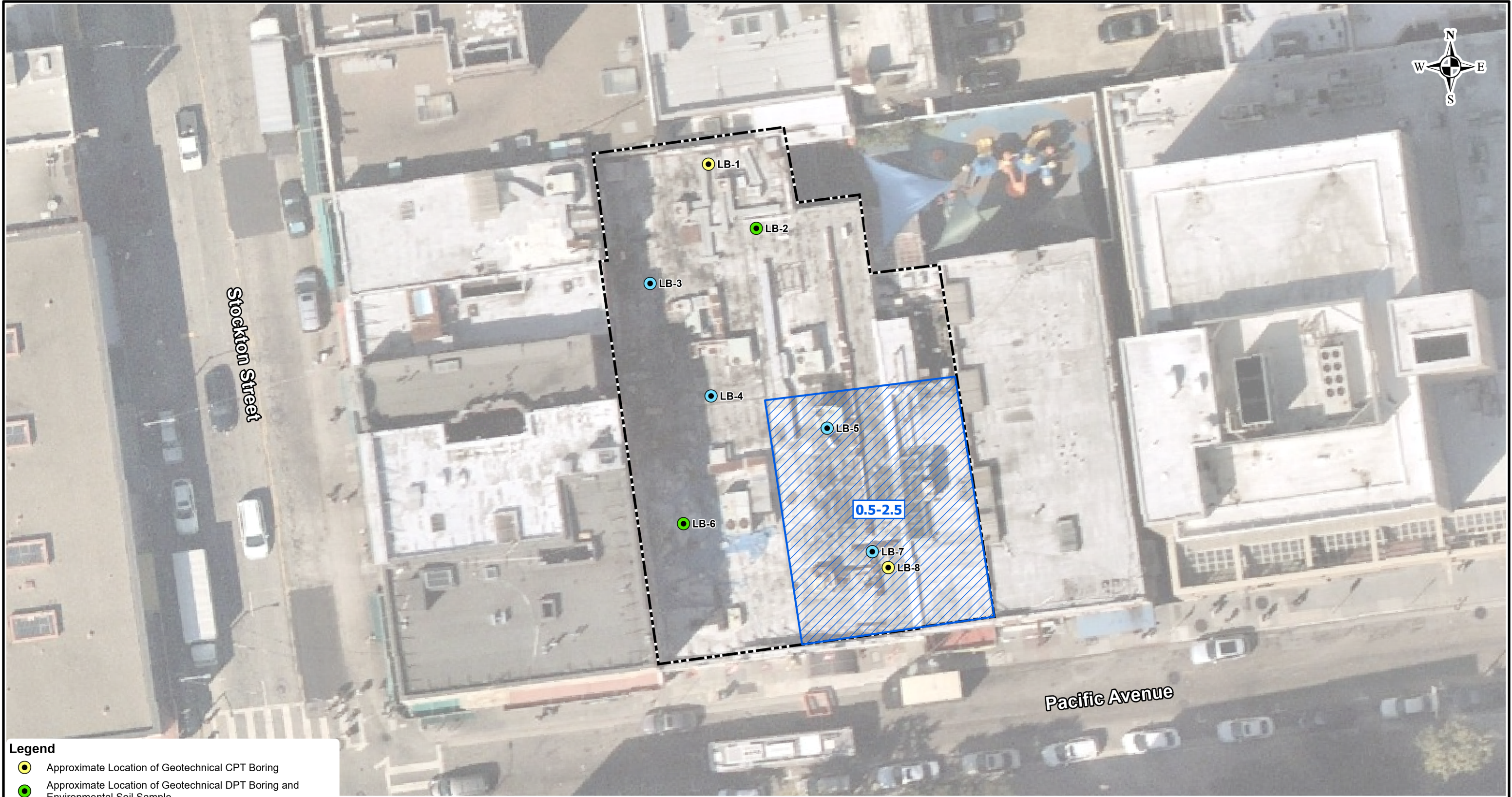
SAN FRANCISCO COUNTY CALIFORNIA

Figure Title

SITE PLAN

Project No.	731764201	2
Date	3/25/2024	
Scale	1" = 25'	
Drawn By	AC	

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Legend

Approximate Location of Geotechnical CPT Boring

Approximate Location of Geotechnical DPT Boring and Environmental Soil Sample

Approximate Location of Environmental Soil and Soil Vapor Sample

Approximate location of Don Hillebrandt Associates boring, November 1980

Approximate Site Boundary

Approximate Area with Soil Concentrations Exceeding State of California Class I Non-RCRA Hazardous Waste Thresholds

0.5-2.5

Approximate Depth (feet bgs) of Material Exceeding State of California Class I non-RCRA Hazardous Waste Thresholds

Notes:
1. Aerial imagery provided by Nearmap, 9/16/2022.
2. All features shown are approximate.
3. feet bgs = feet below ground surface



LANGAN Langan Engineering and Environmental Services, Inc. 135 Main Street, Suite 1500 San Francisco, CA 94105 T: 415.955.5200 F: 415.955.5201 www.langan.com	Project 772 & 758 PACIFIC AVENUE SAN FRANCISCO SAN FRANCISCO COUNTY CALIFORNIA	Figure Title SITE PLAN WITH HAZARDOUS WASTE DELINEATION	Project No. 731764201	Figure 3
			Date 3/25/2024	
			Scale 1" = 25'	
			Drawn By AC	

APPENDIX A
EXPLORATORY BORING LOGS

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-2

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: D. Cohen-Kaplan
Drilled By: Langan Engineering

Date started: 12/13/22

Date finished: 12/13/22

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-2-1.5	●			0.0	CL	CLAY with SILT and SAND (CL) brown-tan, very soft, saturated, very plastic [FILL] weak organic odor, glass and brick noted
2					0.2		
3	LB-2-3.0	●			0.1		
4					0.0	CL	SANDY CLAY (CL) reddish-brown, stiff, moist to wet, plastic, no odor
5	LB-2-5.0	●			0.0		
6							
7							
8							
9							
10							

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGAN

Project No.: 731764201

Figure:

A-1

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-3

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: D. Cohen-Kaplan
Drilled By: Langan Engineering

Date started: 12/13/22

Date finished: 12/13/22

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES					OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)				
1	LB-3-1.5	●				0.1	CL	CLAY with SILT and SAND (CL) gray, brown, very soft, saturated, plastic, weak organic odor [FILL]
2						0.1		
3	LB-3-3.0	●				0.1	CL	SANDY CLAY (CL) reddish-brown, soft to medium stiff, wet, plastic, weak organic odor [COLMA]
4						0.1		
5	LB-3-5.0	●				0.1		
6								
7								
8								
9								
10								

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGANProject No.:
731764201Figure:
A-2

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-4

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 12/13/22

Date finished: 12/13/22

Logged by:
Drilled By:D. Cohen-Kaplan
Langan Engineering

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-4-1.5	●			0.0	CL	SANDY CLAY (CL) reddish-brown, stiff, moist, plastic, no odor [COLMA]
2					0.0		
3	LB-4-3.0	●			0.0		
4					0.0		
5	LB-4-5.0	●			0.0		
6							
7							
8							
9							
10							

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGANProject No.:
731764201

Figure:

A-3

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-5

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 12/13/22

Date finished: 12/13/22

Logged by:
Drilled By:D. Cohen-Kaplan
Langan Engineering

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-5-1.5				0.2	CL	SANDY CLAY with GRAVEL (CL) brown, reddish-brown, very stiff, moist, plastic
2					0.2		Refusal encountered at 2 feet
3							
4							
5							
6							
7							
8							
9							
10							

End of boring at 2 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.**LANGAN**Project No.:
731764201

Figure:

A-4

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-6

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 12/13/22

Date finished: 12/13/22

Logged by:
Drilled By:D. Cohen-Kaplan
Langan Engineering

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-6-1.5	●			0.0	CL	SANDY CLAY (CL) reddish-brown, stiff, moist, plastic, no odor [COLMA]
2					0.0		
3	LB-6-3.0	●			0.0		
4					0.0		
5	LB-6-5.0	●			0.0		
6							
7							
8							
9							
10							

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

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Project No.:

731764201

Figure:

A-5

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE_CA-MODIFIED - COPY.GDT 1/3/23

PROJECT:

772 PACIFIC AVENUE
San Francisco, California

Log of Boring LB-7

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: D. Cohen-Kaplan
Drilled By: Langan Engineering

Date started: 12/13/22

Date finished: 12/13/22

Drilling method: Hand Auger

Hammer weight/drop: NA

Hammer type: NA

Sampler: Hand Auger

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (Inches)			
1	LB-7-1.5	●			0.1	CL	SANDY CLAY (CL) black, dark brown, soft, moist, slightly plastic, no odor [FILL] pieces of glass, brick, porcelain noted
2					0.2		
3	LB-7-3.0	●			0.1		SANDY CLAY (CL) reddish brown, orange and gray mottling, stiff, moist, plastic, no odor [COLMA]
4					0.0	CL	lighter in color at 4 feet
5	LB-7-5.0	●			0.0		
6							
7							
8							
9							
10							

End of boring at 5 feet below ground surface.
Boring backfilled with soil cuttings.
Groundwater not observed.

LANGAN

Project No.: 731764201

Figure:

A-6

TEST ENVIRONMENTAL INCHES 731764201_772 PACIFIC AVE ENV.GPJ TEMPLATE CA-MODIFIED - COPY GDT 1/3/23

UNIFIED SOIL CLASSIFICATION SYSTEM			
Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART		
Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4	76.2 to 4.76
	3" to 3/4" 3/4" to No. 4	76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200	4.76 to 0.075
	No. 4 to No. 10	4.76 to 2.00
	No. 10 to No. 40 No. 40 to No. 200	2.00 to 0.420 0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

- 
 Unstabilized groundwater level
- 
 Stabilized groundwater level
- PP = Pocket Penetrometer
- TV = Torvane

SAMPLER TYPE

- C Core barrel
- CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
- D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
- O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

- PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube
- S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
- SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.38- or 1.5-inch inside diameter - see report text
- ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

SAMPLE DESIGNATIONS/SYMBOLS

- 
 Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered
- 
 Classification sample taken with Standard Penetration Test sampler
- 
 Undisturbed sample taken with thin-walled tube
- 
 Disturbed sample
- 
 Sampling attempted with no recovery
- 
 Core sample
- 
 Analytical laboratory sample
- 
 Sample taken with Direct Push or Drive sampler
- 
 Sonic