GENERAL

1.01 The following sets forth the format for issued Addenda.

ADDENDUM NO. 01, DATED JUNE 11, 2026.

RE: GREENING IMPROVEMENTS, SLOPE REPAIR, PATH OF TRAVEL, AND ADA RESTROOM UPGRADES (BV) (PSA)
OWNER PROJECT NO.: **10372704 | 232751**
AT
COWAN AVENUE ELEMENTARY SCHOOL
Located At: **7615 Cowan Avenue, Los Angeles, CA 90045**

FROM: OWNER: LOS ANGELES UNIFIED SCHOOL DISTRICT
FACILITIES CONSTRUCTION CONTRACTS
333 S. Beaudry Ave., 28th Fl.
Los Angeles, CA 90017

TO: ALL PROSPECTIVE BIDDERS:

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated March 2026, as noted below. Acknowledge receipt of the Addendum in the space provided on Document 00 4100 – Bid and Acceptance Form. Failure to do so may result in the bid being deemed non-responsive.

The Addendum consists of **94 pages**, and the attached drawings: Sheet Numbers: L-3 and L-4.

"The DSA review of this addendum is not expected to result in a material change to the contract"

Angela Y. McCloud, FPM I		Digitally signed by Angela Y. McCloud DN: cn=Angela Y. McCloud, o=LAUSD, ou=LAUSD, email=angela.mccloud@lausd.net, c=US Date: 2026.06.11 09:34:36 -07'00'	
OAR Name	Signature		Date
Mark Bustamante, RFD	Mark Bustamante	Digitally signed by Mark Bustamante DN: cn=Mark Bustamante, o=MOX, ou=Maintenance & Operations, email=mark.bustamante@lausd.net, c=US Date: 2026.06.11 09:43:10 -07'00'	6/11/26
Regional Director Name	Signature		Date

A. CHANGES TO BIDDING DOCUMENTS

1. Remove section 00 0110 Table of Contents (5 pages) and replace with revised 00 0110 Table of Contents, issued with this addendum (6 pages).
2. Remove section 00 3000 Available Information (1 page) and replace with 00 3000 Available Information, issued with this addendum (2 pages)
3. ADD Appendix A ~ Soil Determination Report (77 pages)

B. CHANGES TO SPECIFICATIONS:

1. Remove section 10 2813 Toilet Accessories (6 pages) and replace with revised 10 2813 Toilet Accessories, issued with this addendum (7 pages).

C. CHANGES TO DRAWINGS: **N/A**

D. OTHER CHANGES AS SET FORTH: **N/A**

E. Clarification or any other notice of a change in the Bidding Documents will be issued only by the OWNER office of Facilities Construction Contracts and only in the form of a written Addendum, transmitted by fax or e-mail to all who are known by the issuing office to have received a complete set of Bidding Documents. Any other purported Addenda are void and unenforceable.

F. PRE-BID CLARIFICATION RESPONSES:

RFC# 01: Please confirm if there is a soils/geotech report for this project.

RESPONSE# 01: The Soils Report is now included as Appendix A ~ Soils Determination Report, located under Section 00 3000 – Available Information, for your reference.

RFC# 02: Valve callout chart on sheet L-2.1 shows valve A-11 shall be 1-1/2" size. However, callout on plan shows valve A-11 shall be 2" size. Please clarify

RESPONSE# 02: 1½" Valve

RFC# 03: Irrigation Legend/L-2.1 indicates ball valve but it is not shown on plan. Please clarify.

RESPONSE# 03: No ball valve is required

RFC# 04: Please provide the irrigation as-built drawings to facilitate the installation of a new control wire from Valve A-11 to existing Controller A, located near Building C

RESPONSE# 04: Irrigation As-Builts are attached for your reference

RFC# 05: Please advise what type of access control system this is. There are no specs or parts noted. Is this like an Aiphone system?

RESPONSE# 05: Please see 25/A-4.5 hardware schedule for electric door opener.

RFC# 06: Detail A/L-3.2 shows duckbill tree guying system for 36B tree. However, specification 329000/2.01/J shows R2 Stake System – Mega Stake for 36B tree. Please clarify.

RESPONSE# 06: Use Mega Stake per specs.

G. MANDATORY SITE WALK CLARIFICATION

The reception cabinet in the Main Office, Room 103 (Detail 1A), shall be removed and replaced.

The two cabinets located in Supply Room 106 require partial removal of cabinet sections to provide the ADA-required door clearances. The cabinets identified in Supply Room 106 (Details 6A and 9A) are functional, non-public-facing cabinets.

The majority of these cabinets will remain in place, with only the minimum portions removed as necessary to achieve the required clearances noted above.

END OF ADDENDUM NO. 01

TABLE OF CONTENTS

DIVISION 33 – UTILITIES **~ NOT USED**

END OF TABLE OF CONTENTS

SECTION 00 3000

AVAILABLE INFORMATION

1.01 GENERAL

A. This Section sets forth the following information made available to bidder. The provided information is not part of the Contract Documents.

B. The information is provided in conjunction with, but not limited to, the provisions of Sections 4.2, 4.3, 4.5, and 4.6 of the General Conditions.

1.02 SUBSURFACE CONDITIONS

A. In the preparation of the Drawings and Specifications, ARCHITECT and/or ARCHITECT Consultants have relied upon the following reports of exploration and tests of subsurface conditions at, or contiguous, to the Project site of the Work:

1. Soil Determination Report prepared by the OWNER's consultant, WSP USA, dated November 22, 2024, consisting of 77 pages, including the cover page.

B. The information is provided for bidder investigation. OWNER does not warrant the accuracy or completeness thereof. Bidder is responsible for conducting all tests, investigations, sampling, and/or inquiries to ascertain all actual conditions that may affect the Work.

1.03 PHYSICAL CONDITIONS

A. In the preparation of the Drawings and Specifications, ARCHITECT and/or ARCHITECT Consultants have relied upon the following drawings, descriptions, photographs, and/or mapping of physical conditions, other than Subsurface Facility, which are at, or contiguous, to the site of the Work:

1. Asbestos and Lead reports supplied by the OWNER's consultants to be identified and inserted in Division 02, under Section 02 8213 for Asbestos Abatement and Section 02 8333 for Lead Abatement.

B. The information is provided for bidder investigation. OWNER does not warrant the accuracy or completeness thereof. Bidder is responsible for conducting all tests, investigations, sampling, and/or inquiries to ascertain all actual conditions that may affect the Work.

1.04 SUBSURFACE FACILITY ~ **N/A**

A. In the preparation of the Drawings and Specifications, ARCHITECT and/or ARCHITECT Consultants have relied upon the following drawings, descriptions and/or mapping of subsurface facility which are at, or contiguous, to the site of the Work:

B. The information is provided for bidder investigation. OWNER does not warrant the accuracy or completeness thereof. Bidder is responsible for conducting all tests, investigations, sampling, and/or inquiries to ascertain all actual conditions that may affect the Work.

1.05 AVAILABILITY

A. Copies of these reports, assessments, drawings, and related documents may be obtained from:

Crisp Imaging
1829 S. Main Street
Los Angeles, CA 90015
Business Hours: 7:00AM – 6:00PM
Phone: (213) 741-9560
Additional locations are listed at www.crispimg.com

END OF SECTION

APPENDIX A

SOIL DETERMINATION REPORT

INTEROFFICE CORRESPONDENCE
Los **A**ngeles **U**nified **S**chool **D**istrict
Office of Environmental Health and Safety

TO: Keith Coffman
Senior Design Manager
FSD | M & O | Architecture & Engineering Services

DATE: November 27, 2024

FROM: Eric Longenecker (CP) EBL
Site Assessment Project Manager
Office of Environmental Health and Safety

SUBJECT: **COWAN ELEMENTARY SCHOOL**
SLOPE REMEDIATION & PAVING (COLIN #10372704)
DETERMINATION – SPECIAL SOIL HANDLING WILL BE REQUIRED

The Office of Environmental Health and Safety (OEHS) has prepared this correspondence to document the soil determination for the Slope Remediation & Paving project at Cowan Elementary School, 7615 Cowan Avenue, Los Angeles, California 90045 (Site). This determination applies to subsurface compounds in soils underlaying this project. Specifically, this determination addresses the following:

1. Waste classification of the soil to be encountered,
2. Applicability of South Coast Air Quality Management District (SCAQMD) Rule 1466 to areas of soil disturbance, and
3. Need for any special soil handling.

On August 30, 2024, in accordance with OEHS guidelines, WSP USA Inc. conducted limited soil sampling throughout areas where soil disturbances would occur per the *Cowan Elementary School, Paving, Slope Repair & Path of Travel* plan set, consisting of 71 sheets, dated May 27, 2024, and prepared by Brahmbhatt Architects. Except for arsenic, concentrations of those chemicals covered by Rule 1466 were either not detected or below applicable screening levels for the primary samples. Based on the arsenic exceedance in one sample location, additional step-out sampling was conducted on October 28, 2024.

The attached report responds to the above by indicating

1. "waste characterization analysis identified soil represented by these samples will likely be characterized as **non-hazardous** [emphasis added]", and
2. "future soil disturbing activities associated with these shallow samples [those with exceedances for arsenic] will **require SCAQMD Rule 1466 monitoring** [emphasis added]".

OEHS concurs with the above statements.

Separately, a Soil Removal Plan will be prepared that will provide additional information on the ramifications of removing the identified soil under SCAQMD Rule 1466 (item 3 above).

Should you have any questions regarding this correspondence, please contact OEHS Site Assessment Project Manager Eric Longenecker at (213) 241 - 4578 or at eric.longenecker@lausd.net.

ATTACH: *Technical Memorandum – Soil Investigation, Cowan Elementary School*, by WSP USA Inc., dated November 22, 2024

COPY: Project File

November 22, 2024

Mr. Eric Longenecker
Site Assessment Project Manager
Los Angeles Unified School District (LAUSD)
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA90017
eric.longenecker@lausd.net

Subject: **TECHNICAL MEMORANDUM - SOIL INVESTIGATION**
COWAN ELEMENTARY SCHOOL
7615 COWAN AVE, LOS ANGELES, CA 90045
PROJECT NUMBER US-WSP-31405328.7253

Dear Mr. Longenecker,

WSP USA Inc. (WSP), has prepared this Technical Memorandum associated with the soil investigation conducted at Cowan Elementary School located at 7615 Cowan Ave, Los Angeles, California (Site – see Figure 1 and Figure 2). The following sections include a summary of the field activities and discussion of the recent analytical results.

2024 SOIL INVESTIGATION

PRE-FIELD ACTIVITIES

Prior to implementing field activities, the locations proposed for subsurface work were identified using white paint, and Underground Service Alert (USA) was subsequently notified at least 72-hours prior to initiation of field activities. Soil investigation activities were conducted in accordance with WSP's August 1, 2024 proposal and the subsequent October 21, 2024 amendment, based on a figure provided by LAUSD, as well as the Site Health and Safety Plan (HASP). The scope of work and elements of the HASP were discussed during the tailgate safety meeting.

Additionally, WSP coordinated access to the property with LAUSD to finalize the field work schedule.

FIELD ACTIVITIES

On August 30, 2024, eight hand auger borings (S-1 through S-8) were advanced to a depth of 1.5 feet below ground surface (ft bgs) using a hand auger (see Figure 2).

WSP USA
3560 Hyland Ave Suite 100
Costa Mesa, CA 92626

Tel.: + 714 564 2705
wsp.com

Concrete/asphalt coring was required at all boring locations. Samples were collected at both 0.25 ft and 1.5 ft bgs. The 1.5 ft bgs samples were archived pending the results of the shallower 0.25 ft bgs samples. The shallow 0.25 ft samples were composited in the lab into two samples, C-1, representing locations S-1 through S-4 and C-2, representing locations S-5 through S-8.

Step-out sampling was conducted on October 28, 2024 due to sample location S-2-0.25 having elevated concentrations of arsenic, which is explained in detail in the "Analytical Results" section. Five hand auger borings (S2-E1, S2-E2, S2-NE, S2-N1, S2-N2) around the location of S-2 were advanced to 0.5 ft bgs (see Figure 3). Concrete/asphalt coring was required at all boring locations. Samples were collected at 0.5 ft bgs.

Once samples were collected for both the initial and step-out sampling, the boreholes were filled and compacted with soil cuttings/excess native soil from the hand auger locations along with commercial grade sand to match the existing grade. Quick-setting concrete with color matching dye was used to restore the borings to original surface conditions.

SAMPLING AND ANALYSES

Each soil sample was placed in a laboratory-provided container, uniquely identified/labeled, and subsequently stored in an ice-cooled chest awaiting transport to Enthalpy Analytical in Orange, CA, a California-State Certified laboratory. The shallow 0.25 ft samples from the initial sampling were composited in the lab into two samples, C-1-0.25 (S-1-0.25 through S-4-0.25) and C-2-0.25 (S-5-0.25 through S-8-0.25). The composite soil samples from the initial sampling were analyzed for the following:

- Cd, Cr, Ni, & Pb by EPA Method 6010B
- Arsenic (As) by EPA Method 6020
- Mercury (Hg) by EPA Method 7471A
- Organochlorine Pesticides by EPA Method 8081A
- Polycyclic Aromatic Hydrocarbons by EPA Method 8270C
- Polychlorinated Biphenyls by EPA Method 8082
- Asbestos by Polarized Light Microscopy (PLM)

Due to Arsenic being detected in both composite samples, all 0.25 ft samples from the initial sampling were analyzed for arsenic. Because Arsenic was detected above the soil screening criteria of 12 mg/kg for S-2, the 1.5 ft sample was also analyzed for arsenic.

The soil samples from step-out sampling were analyzed for Arsenic as well.

Step-out samples S2-E1-0.5 and S2-N1-0.5 required further waste characterization analysis. S2-E1-0.5 was analyzed for both TCLP (toxicity characteristic leaching procedure) and STLC (soluble threshold limit concentration) and S2-N1-0.5 was analyzed for STLC. Both analyses used EPA Method 6010B.

DECONTAMINATION

Investigation Derived Waste (IDW) was not accumulated during this investigation as the sampling equipment was wipe-decontaminated using Simple Green, followed by a distilled water rinse, per request of OEHS. Solid waste, such as paper towels, were placed in plastic garbage bags and deposited in the appropriate waste bins off-Site.

ANALYTICAL RESULTS

The analytical results were compared to the Department of Toxic Substances Control (DTSC) HHRA Note 11 (Arsenic), the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential shallow soil exposure (Cadmium and Nickel), and DTSC HHRA Note 3 (Lead), as appropriate. Future modifications at the Site (i.e., removal of approximately 18,900 square feet of asphalt/concrete paving, regrading for proper drainage, repairs, and repaving) at the site is expected to disturb more than 50 cubic yards of soil. The expected disturbance volume exceeds the applicability threshold of South Coast Air Quality Management District's (SCAQMD) Rule 1466, *Control of Particulate Emissions from Soils with Toxic Air Contaminants*; therefore, this evaluation was used to determine whether the soil contains toxic air contaminants as defined in paragraph (c)(16) of the rule. Additionally, reported analytical results were compared to applicable Total Threshold Limit Concentration (TTLC), 10 x Soluble Threshold Limit Concentration (STLC), and 20 x Toxicity Characteristic Leaching Potential (TCLP) in support of future waste characterization associated with off-Site disposal. Reported analytical results are summarized in Table 1 and Table 2 and discussed below.

The following metals were reported above the laboratory method detection limits in the composite samples: Arsenic, Cadmium, Chromium, Lead, and Nickel. Exceedance of the soil screening criteria for Arsenic (12 mg/kg) was reported in C-1-0.25 (16 mg/kg). As such, the initial 0.25 ft soil samples were each analyzed for Arsenic. The results were under the soil screening criteria, except S-2-0.25 (46 mg/kg), which led to the deeper sample S-2-1.5 being analyzed for Arsenic. The result for the 1.5 foot sample did not exceed the soil screening criteria (Table 1).

The step-out sample results for Arsenic are also included on Table 1. Sample locations that exceeded the DTSC HHRA Note 11 screening level are shown on Figure 3. Samples S2-E1-0.5, S2-E2-0.5, S2-N1-0.5, and S2-N2-0.5 exceeded the soil screening criteria. Additionally, S2-E1-0.5 exceeded 20 X TCLP and 10 X STLC for Arsenic at 100 mg/kg, and S2-N1-0.5 exceeded 10 X STLC for Arsenic at 68 mg/kg. However, the subsequent TCLP and STLC results were below the TCLP and STLC regulatory limits for Arsenic of 5.0 mg/L, as shown on Table 2.

No pesticides, PAHs, PCBs, or asbestos were detected in the composite samples, so these analyses were not run on any individual samples.

CONCLUSIONS

The analytical results reported concentrations below the associated screening criteria, with the exception of Arsenic concentrations reported for S-2-0.25 and subsequent step-out samples S2-E1-0.5, S2-E2-0.5, S2-N1-0.5, and S2-N2-0.5. Therefore, future soil disturbing activities associated with these shallow samples will require SCAQMD Rule 1466 monitoring. Additionally, waste characterization analysis identified soil represented by these samples will likely be characterized as non-hazardous.

CLOSING

If there are any questions regarding this Technical Memorandum, please contact Lindsey Amin (562-322-7934, lindsey.amin@wsp.com) or Jeff Bennett (714-743-0482; jeff.bennett@wsp.com).

Respectfully submitted,

Vanessa Rebentisch
Assistant Consultant, Environmental Engineer

Jeffrey Bennett, P.G., CHG
Vice President, Geologist

Enclosures : Table 1 – Soil Analytical Results

Table 2 – Soil Analytical Results – Waste Characterization

Figure 1 – Vicinity Map

Figure 2 – Sample Location Map

Figure 3 – Step-Out Sample Location Map

Laboratory Reports

TABLE 1
SOIL ANALYTICAL RESULTS - COWAN ELEMENTARY SCHOOL
AUGUST 30, 2024

	Method	Unit	S-1-0.25	S-2-0.25	S-2-1.5	S2-E1-0.5	S2-E2-0.5	S2-NE-0.5	S2-N1-0.5	S2-N2-0.5	S-3-0.25	S-4-0.25	C-1-0.25	S-5-0.25	S-6-0.25	S-7-0.25	S-8-0.25	C-2-0.25	Soil Screening Criteria *
Metals																			
Arsenic	EPA 6020	mg/kg	**1.9**	**46**	**1.9**	**100**	**31**	**2.6**	**68**	**21**	**2.1**	**1.5**	**16**	**1.8**	**1.6**	**2.2**	**2.0**	**1.8**	**12** [A]
Cadmium	EPA 6010B	mg/kg	--	--	--	--			--		--	--	**0.10 J**	--	--	--	--	**0.11 J**	**78** [B]
Chromium	EPA 6010B	mg/kg	--	--	--	--			--		--	--	**10**	--	--	--	--	**17**	**-**
Lead	EPA 6010B	mg/kg	--	--	--	--			--		--	--	**6.5**	--	--	--	--	**4.1**	**80** [C]
Nickel	EPA 6010B	mg/kg	--	--	--	--			--		--	--	**6.9**	--	--	--	--	**11**	**820** [B]

Exceeds criteria

mg/kg - millogram per kilogram

J-Estimated Value

[A] - DTSC HHRA Note 11 (Arsenic)

[B]- San Francisco Bay Regional Water Quality Control Board (RWQCB) ESLs

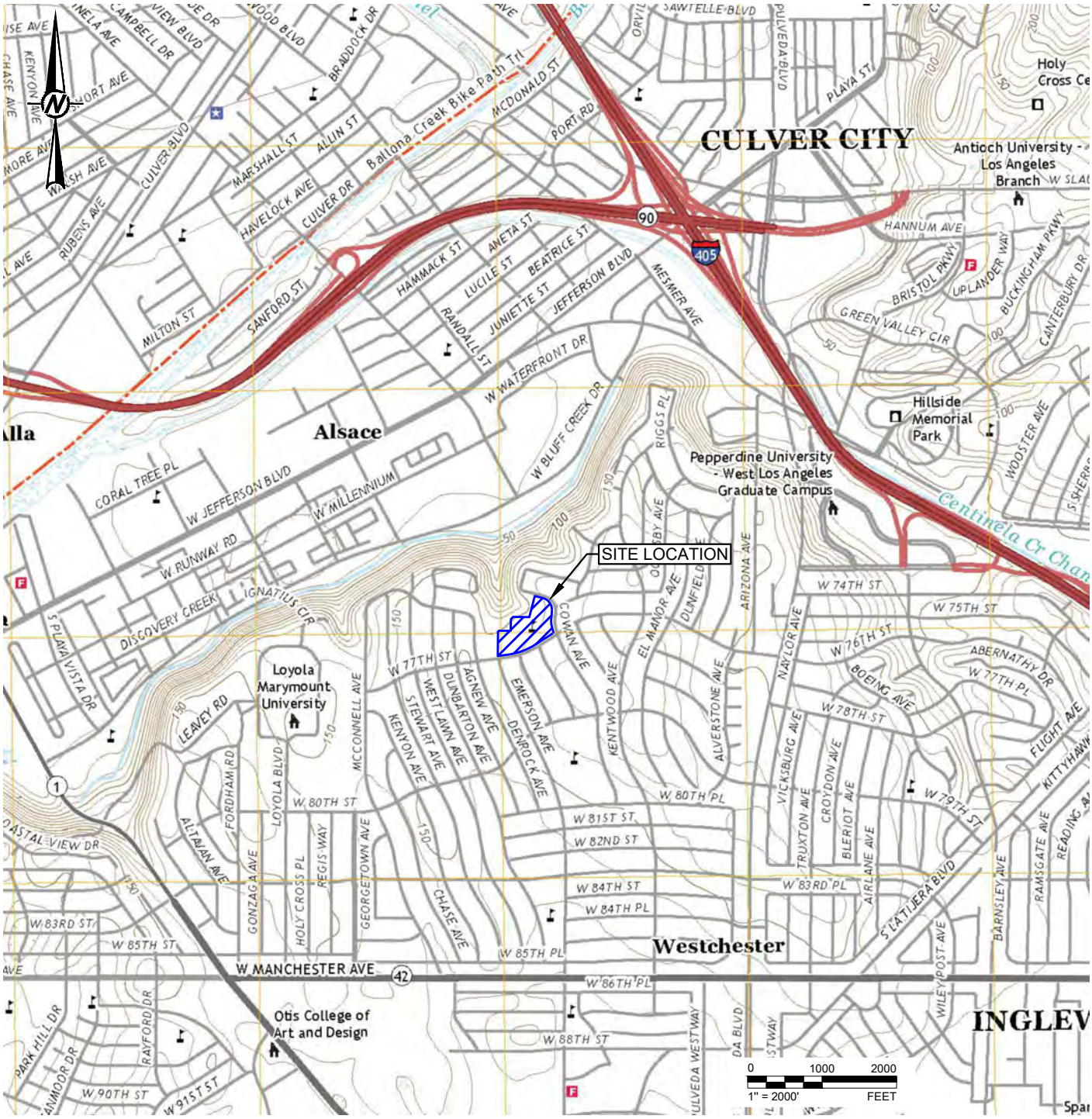
[C] - HHRA Note 3 for Residential Soil (2020)

Remaining analytes not listed above are ND.

TABLE 2
SOIL ANALYTICAL RESULTS -
WASTE CHARACTERIZATION COWAN ELEMENTARY SCHOOL
AUGUST 30, 2024

	Method	Unit	S-1-0.25	S-2-0.25	S-2-1.5	S2-E1-0.5	S2-E2-0.5	S2-NE-0.5	S2-N1-0.5	S2-N2-0.5	S-3-0.25	S-4-0.25	C-1-0.25	S-5-0.25	S-6-0.25	S-7-0.25	S-8-0.25	C-2-0.25	Soil Screeing Criteria	TTLC (mg/kg)	20xTCLP (mg/kg)	TCLP (mg/L)	10xSTLC (mg/kg)	STLC (mg/L)
Metals																								
Arsenic	EPA 6020	mg/kg	**1.9**	**46**	**1.9**	**100**	**31**	**2.6**	**68**	**21**	**2.1**	**1.5**	**16**	**1.8**	**1.6**	**2.2**	**2.0**	**1.8**	**12** [A]	**500**	**100**	--	**50**	**50**
Arsenic, TCLP	EPA 6010B	mg/L	--	--	--	**0.13**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.0**	--	--
Arsenic, STLC	EPA 6010B	mg/L	--	--	--	**1.5**	--	--	**1.7**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.0**
Cadmium	EPA 6010B	mg/kg	--	--	--	--	--	--	--	--	--	--	**0.1 J**	--	--	--	--	**0.11 J**	**78** [B]	**100**	**20**	--	**10**	**10**
Chromium	EPA 6010B	mg/kg	--	--	--	--	--	--	--	--	--	--	**10**	--	--	--	--	**17**	--	**2,500**	**100**	--	**50**	**50**
Lead	EPA 6010B	mg/kg	--	--	--	--	--	--	--	--	--	--	**6.5**	--	--	--	--	**4.1**	**80** [C]	**1,000**	**100**	--	**50**	**50**
Nickel	EPA 6010B	mg/kg	--	--	--	--	--	--	--	--	--	--	**6.9**	--	--	--	--	**11**	**820** [B]	**2,000**	--	--	**200**	**200**

mg/kg - millogram per kilogram
J-Estimated Value
[A] - DTSC HHRA Note 11
(Arsenic)
[B] - San Francisco Bay Regional Water Quality Control Board (RWQCB) ESLs
[C] - HHRA Note 3 for Residential Soil (2020)



LEGEND

APPROXIMATE FOOTPRINT OF THE FACILITY

QUADRANGLE LOCATIONS

REFERENCE(S)

BASE MAP TAKEN FROM USGS.GOV, BEVERLY HILLS AND VENICE, CA 7.5 MIN USGS DATED 2022 AND 2021.

CLIENT
LAUSD

PROJECT
COWAN ELEMENTARY SCHOOL
7615 COWAN AVENUE
LOS ANGELES, CA 90045

TITLE
VICINITY MAP

CONSULTANT

YYYY-MM-DD	2024-11-08
DESIGNED	TNB
PREPARED	TNB
REVIEWED	VR
APPROVED	LA

PROJECT NO. 31405328.7656 | REV. 0 | FIGURE 1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A

LEGEND

PROJECT AREA

SOIL SAMPLE LOCATION

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED JANUARY 18, 2024.

0 40 80

1" = 80' FEET

CLIENT
LAUSD

PROJECT
COWAN ELEMENTARY SCHOOL
7615 COWAN AVENUE
LOS ANGELES, CA 90045

TITLE
INITIAL SAMPLE LOCATION MAP
AUGUST 2024

CONSULTANT

YYYY-MM-DD	2024-11-08
DESIGNED	TNB
PREPARED	TNB
REVIEWED	VR
APPROVED	LA

PROJECT NO. 31405328.7656 REV. 0 FIGURE 2

LEGEND

- PROJECT AREA
- SOIL SAMPLE LOCATION
- STEP-OUT SAMPLING LOCATION

NOTE(S)

1. RESULTS IN mg/kg - MILLIGRAM PER KILOGRAM.
2. ONLY ARSENIC RESULTS WHICH EXCEED THE DTSC HHRA NOTE 11 SCREENING LEVEL (12 mg/kg) ARE SHOWN.

REFERENCE(S)

BASE MAP TAKEN FROM GOOGLE EARTH, IMAGERY DATED JANUARY 18, 2024.

0 10 20
1" = 20' FEET

CLIENT
LAUSD

PROJECT
COWAN ELEMENTARY SCHOOL
7615 COWAN AVENUE
LOS ANGELES, CA 90045

TITLE
STEP-OUT SAMPLING LOCATION MAP
OCTOBER 2024

CONSULTANT

YYYY-MM-DD	2024-11-25
DESIGNED	TNB
PREPARED	TNB
REVIEWED	VR
APPROVED	LA

PROJECT NO. 31405328.7656
REV. 0
FIGURE 3

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 515152
Report Level : II
Report Date : 09/10/2024

Analytical Report *prepared for:*

Becky Sundilson
WSP USA (1)
3560 Hyland Ave
Ste 100
Costa Mesa, CA 92626

Location: LAUSD Cowan - US-WSP-31405328.7253

Authorized for release by:

Jim Lin, Service Center Manager
818-319-2359
Jim.lin@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Becky Sundilson
WSP USA (1)
3560 Hyland Ave
Ste 100
Costa Mesa, CA
92626

Lab Job #: 515152
Location: LAUSD Cowan - US-WSP-31405328.7253
Date Received: 08/30/24

Sample ID	Lab ID	Collected	Matrix
S-5-0.25	515152-001	08/30/24 10:24	Soil
S-5-1.5	515152-002	08/30/24 10:26	Soil
S-6-0.25	515152-003	08/30/24 10:38	Soil
S-6-1.5	515152-004	08/30/24 10:43	Soil
S-7-0.25	515152-005	08/30/24 09:48	Soil
S-7-1.5	515152-006	08/30/24 09:53	Soil
S-8-0.25	515152-007	08/30/24 10:03	Soil
S-8-1.5	515152-008	08/30/24 10:07	Soil
C-2-0.25	515152-009	08/30/24 10:03	Soil

ENTHALPY ANALYTICAL

Case Narrative

WSP USA (1) 3560 Hyland Ave Ste 100 Costa Mesa, CA 92626 Becky Sundilson	Lab Job Number: Location: Date Received:	515152 LAUSD Cowan - US-WSP-31405328.7253 08/30/24

- This data package contains sample and QC results for four soil samples and one four-point soil composite, requested for the above referenced project on 08/30/24. The samples were received cold and intact.
- First additional.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

- C-2-0.25 (lab # 515152-009) was diluted due to the dark and viscous nature of the sample extract.
- No other analytical problems were encountered.

Pesticides (EPA 8081A):

- High surrogate recovery was observed for decachlorobiphenyl in the method blank for batch 349165; the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample.
- No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7471A):

No analytical problems were encountered.

Asbestos by PLM (EPA 600/R-93-116):

AmeriSci in Carson, CA performed the analysis (see sublab report section for certifications). Please see the AmeriSci case narrative.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 515152

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	✓
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: 2.5/2.7 IR02 (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	WSP	Quote #:	510603
Report To:	Becky Sundilson	Proj. Name:	LAUSD COWAN
Email:	Becky.sundilson@WSP.com	Proj. #:	US-WSP-314105328.7253
Address:	3500 Hyland Ave, Costa Mesa, CA, 92626	P.O. #:	PO111024US001
		Address:	7615 COWAN AVE
Phone:	714 321 8626	Global ID:	N/A
Fax:	N/A	Sampled By:	Alexis Ruiz / Travis Rhymes

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	HOLD	Cd, Cr, Ni, & Pb by EPA Method 6010	As by EPA Method 6020	Hg by EPA Method 7471	Organochlorine Pesticides by EPA Method 8081A	Polycyclic Aromatic Hydrocarbons by EPA Method 8270C	Polychlorinated Biphenols by EPA Method 8082	Asbestos by Polarized Light Microscopy (Quantitative)			Test Instructions / Comments
1	S-5-0.25	8/30/25	1024	S	8oz jar	N/A		X	X	X	X	X	X	X			*
2	S-5-1.5	↓	1026	S	↓	↓	X										
3	S-6-0.25		1038	S				X	X	X	X	X	X	X			*
4	S-6-1.5		1043	S			X										
5	S-7-0.25		0948	S				X	X	X	X	X	X	X			*
6	S-7-1.5		0953	S			X										
7	S-8-0.25		1003	S				X	X	X	X	X	X	X			*
8	S-8-1.5		1007	S			X										
9																	ATB
10																	ATB

* All 0.25 samples will be composited by the lab with the sample ID: C-2-0.25

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Alexis Ruiz	Alexis Ruiz	WSP / Geologist	8/30/25 / 1500
[1] Received By:		G. Kim	EA	8/30/25 ~~1500~~ 1400
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 8130124 WO# 515152 Client: WSP

Section 2: Shipping / Custody **Are custody seals present?** ☐ Yes ☑ No

Custody seals intact on arrival? ☐ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

Shipping Info: _____

Section 3a: Condition / Packaging ☐ **Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)**

Date Opened _____ By (initials)_____ Type of ice used : ☑ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR02 CF: +0.2

Cooler Temp (°C) #1: 2.9 / 2.7 #2: ____/____ #3: ____/____ #4: ____/____ #5: ____/____ #6: ____/____

Section 3b: Microbiology Samples ☑ **No microbiology samples submitted (skip 3b)**

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples ☑ **No air samples submitted (skip 3c)**

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other_____

Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible? AS 8/30/24	✓		
2) Is the sampler's name present on the CoC?	✓		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	✓		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	✓		
5) Were all of, and only, the correct samples received?	✓		
6) Are sample labels present, legible, and in agreement with the CoC?	✓		
7) Does the container count match the CoC?	✓		
8) Was sufficient sample volume / mass received for the analyses requested?	✓		
9) Were samples received in proper containers for the analyses requested?	✓		
10) Were samples received with > 1/2 holding time remaining?	✓		
11) Are samples properly preserved as indicated by CoC / labels?	✓		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			✓
13) Are VOA vials free from headspace/bubbles > 6mm?			✓

Section 5: Explanations / Comments ☑ **PM notified**

4.1 White out was used in the Sample ID Section and the analysis Section

Date Logged 8130124 **By (print)** [illegible] **(sign)** [signature]

Date Labeled 8130124 **By (print)** Orsaye **(sign)** _____

Re: [External] - Bottle Order-Need more bottles ASAP!!!

Amin, Lindsey <lindsey.amin@wsp.com>
Fri 9/6/2024 11:32 AM
To:Jim Lin <jim.lin@enthalpy.com>
Cc:Sundilson, Becky <becky.sundilson@wsp.com>

2 attachments (6 MB)
515153_level2.pdf; 515152_level2.pdf;

Hi Jim,

Can you please run all of the 0.25 individual samples for Arsenic only on a two day turn around.

S-1-0.25
S-2-0.25
S-3-0.25
S-4-0.25
S-5-0.25
S-6-0.25
S-7-0.25
S-8-0.25

Thank you,

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment

M: 562-322-7934
P : 714-500-5413
Email: Lindsey.amin@wsp.com

WSP USA
3560 Hyland Avenue, Suite 100
Costa Mesa, CA 92626

From: Amin, Lindsey
Sent: Tuesday, August 27, 2024 8:32 AM
To: Jim Lin <jim.lin@enthalpy.com>; Daniel Chavez <daniel.chavez@enthalpy.com>
Cc: Sundilson, Becky <becky.sundilson@wsp.com>
Subject: RE: [External] - Bottle Order-Need more bottles ASAP!!!

Hi Jim,
I was just checking the bottle order and noticed something weird. We were only given 6 jars. However, we are collecting 8 and having the lab composite to create one sample for the 0.25 depth and then holding the 1.5 ft samples pending the analytical from the one 0.25 ft depth composite sample. I hope this makes sense. I don't think it was fully explained at the beginning and I apologize. Please see the table below for reference on this.

Can you please have 12 more jars dropped off to our Costa Mesa office before Thursday 8/29? So, we can sample on 8/30?

Boring location	Sample ID	Hold/Run	Composite Sample ID	Analyses
S-1	S-1-0.25	Run	C-1-0.25	Cd, Cr, Ni, & Pb by EPA Method 6010 As by EPA Method 6020 Organochlorine Pesticides by EPA Method 8081A Polycyclic Aromatic Hydrocarbons by EPA Method 8270c Polychlorinated Biphenyls by EPA Method 8082 Asbestos by polarized Light Microscopy (Quantitative)
	S-1-1.5	**Hold**		
S-2	S-2-0.25	Run		
	S-2-1.5	**Hold**		
S-3	S-3-0.25	Run		
	S-3-1.5	**Hold**		
S-4	S-4-0.25	Run		
	S-4-1.5	**Hold**		
S-5	S-5-0.25	Run	C-2-0.25	
	S-5-1.5	**Hold**		
S-6	S-6-0.25	Run		
	S-6-1.5	**Hold**		
S-7	S-7-0.25	Run		
	S-7-1.5	**Hold**		
S-8	S-8-0.25	Run		
	S-8-1.5	**Hold**		

Thank you,

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment

M: 562-322-7934
P : 714-500-5413
Email: Lindsey.amin@wsp.com

WSP USA
3560 Hyland Avenue, Suite 100
Costa Mesa, CA 92626

From: Amin, Lindsey
Sent: Thursday, August 15, 2024 1:12 PM
To: Jim Lin <jim.lin@enthalpy.com>; Daniel Chavez <daniel.chavez@enthalpy.com>
Cc: Sundilson, Becky <becky.sundilson@wsp.com>
Subject: RE: [External] - Bottle Order

Hi Jim,
Thank you for confirming. We have created the PO. Can you please sign and return at your earliest convenience. Please note that all invoices should be sent to both Becky (cc'd) and myself with the PO number listed so that we can make sure they get input to the system in a timely manner.

Thank you,

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment

M: 562-322-7934
P : 714-500-5413
Email: Lindsey.amin@wsp.com

WSP USA
3560 Hyland Avenue, Suite 100
Costa Mesa, CA 92626

From: Jim Lin <jim.lin@enthalpy.com>
Sent: Thursday, August 15, 2024 9:20 AM
To: Sundilson, Becky <becky.sundilson@wsp.com>; Daniel Chavez <daniel.chavez@enthalpy.com>
Cc: Amin, Lindsey <lindsey.amin@wsp.com>
Subject: Re: [External] - Bottle Order

yes we will work on it

Jim Lin
Service Center Manager

Enthalpy Analytical
7411 Laurel Canyon Boulevard, Suite 8
North Hollywood, CA 91605
M: +1-818-319-2359 O: +1-714-771-9904

From: Sundilson, Becky <becky.sundilson@wsp.com>
Sent: Thursday, August 15, 2024 9:07 AM
To: Daniel Chavez <daniel.chavez@enthalpy.com>; Jim Lin <jim.lin@enthalpy.com>
Cc: Amin, Lindsey <lindsey.amin@wsp.com>
Subject: [External] - Bottle Order

@jim.lin@enthalpy.com

Please have this bottle order (with cooler, labels, and COCs) delivered to our Costa Mesa office by 8/21.

Please confirm email receipt.

Thanks,

Becky Sundilson
Lead Consultant, Environmental Scientist
Earth & Environment
CPSWQ 696, QSD/QSP 1183, SM-QSD 76, QISP 189
Pronouns: she/her

M+ 1 714-321-8626
becky.sundilson@wsp.com

WSP USA
3560 Hyland Ave, Suite 100
Costa Mesa, CA 92626
Please note new address

wsp.com

CONFIDENTIALITY NOTICE: The contents of this email message and any attachments are intended solely for the addressee(s) and may contain confidential, proprietary and/or privileged information and may be legally protected from disclosure. If you are not the intended recipient of this message or their agent, or if this message has been addressed to you in error, please immediately alert the sender by reply email and then delete this message and any attachments and the reply from your system. If you are not the intended recipient, you are hereby notified that any disclosure, use, dissemination, copying, or storage of this message or its attachments is strictly prohibited.

CONFIDENTIALITY NOTICE: The contents of this email message and any attachments are intended solely for the addressee(s) and may contain confidential, proprietary and/or privileged information and may be legally protected from disclosure. If you are not the intended recipient of this message or their agent, or if this message has been addressed to you in error, please immediately alert the sender by reply email and then delete this message and any attachments and the reply from your system. If you are not the intended recipient, you are hereby notified that any disclosure, use, dissemination, copying, or storage of this message or its attachments is strictly prohibited.

ENTHALPY ANALYTICAL

Analysis Results for 515152

Becky Sundilson
WSP USA (1)
3560 Hyland Ave
Ste 100
Costa Mesa, CA 92626

Lab Job #: 515152
Location: LAUSD Cowan - US-WSP-31405328.7253
Date Received: 08/30/24

Sample ID: S-5-0.25 **Lab ID: 515152-001** **Collected: 08/30/24 10:24**
Matrix: Soil

515152-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**1.8**		mg/Kg	1.0	0.41	1	349669	09/09/24	09/09/24	KAM

Sample ID: S-6-0.25 **Lab ID: 515152-003** **Collected: 08/30/24 10:38**
Matrix: Soil

515152-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**1.6**		mg/Kg	0.95	0.39	0.95	349669	09/09/24	09/09/24	KAM

Sample ID: S-7-0.25 **Lab ID: 515152-005** **Collected: 08/30/24 09:48**
Matrix: Soil

515152-005 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**2.2**		mg/Kg	1.0	0.41	1	349669	09/09/24	09/09/24	KAM

Sample ID: S-8-0.25 **Lab ID: 515152-007** **Collected: 08/30/24 10:03**
Matrix: Soil

515152-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**2.0**		mg/Kg	0.99	0.40	0.99	349669	09/09/24	09/09/24	KAM

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 515152

Sample ID: C-2-0.25	Lab ID: 515152-009	Collected: 08/30/24 10:03
	Matrix: Soil	

515152-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B										
Cadmium	**0.11**	J	mg/Kg	0.48	0.051	0.96	349091	08/30/24	09/01/24	SBW
Chromium	**17**		mg/Kg	0.96	0.22	0.96	349091	08/30/24	09/01/24	SBW
Lead	**4.1**		mg/Kg	0.96	0.72	0.96	349091	08/30/24	09/01/24	SBW
Nickel	**11**		mg/Kg	0.96	0.44	0.96	349091	08/30/24	09/01/24	SBW
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**1.8**		mg/Kg	0.96	0.39	0.96	349092	08/30/24	09/03/24	KAM
Method: EPA 7471A Prep Method: METHOD										
Mercury	ND		mg/Kg	0.15	0.056	1.1	349254	09/03/24	09/03/24	MLL
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	2.3	1	349165	09/02/24	09/04/24	MES
beta-BHC	ND		ug/Kg	5.0	2.6	1	349165	09/02/24	09/04/24	MES
gamma-BHC	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
delta-BHC	ND		ug/Kg	5.0	2.0	1	349165	09/02/24	09/04/24	MES
Heptachlor	ND		ug/Kg	5.0	1.4	1	349165	09/02/24	09/04/24	MES
Aldrin	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
Endosulfan I	ND		ug/Kg	5.0	2.6	1	349165	09/02/24	09/04/24	MES
Dieldrin	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
4,4'-DDE	ND		ug/Kg	5.0	3.1	1	349165	09/02/24	09/04/24	MES
Endrin	ND		ug/Kg	5.0	2.4	1	349165	09/02/24	09/04/24	MES
Endosulfan II	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
Endosulfan sulfate	ND		ug/Kg	5.0	2.2	1	349165	09/02/24	09/04/24	MES
4,4'-DDD	ND		ug/Kg	5.0	2.0	1	349165	09/02/24	09/04/24	MES
Endrin aldehyde	ND		ug/Kg	5.0	4.8	1	349165	09/02/24	09/04/24	MES
Endrin ketone	ND		ug/Kg	5.0	2.6	1	349165	09/02/24	09/04/24	MES
4,4'-DDT	ND		ug/Kg	5.0	2.7	1	349165	09/02/24	09/04/24	MES
Methoxychlor	ND		ug/Kg	10	4.4	1	349165	09/02/24	09/04/24	MES
Toxaphene	ND		ug/Kg	100	65	1	349165	09/02/24	09/04/24	MES
Chlordane (Technical)	ND		ug/Kg	50	27	1	349165	09/02/24	09/04/24	MES
Surrogates				**Limits**						
TCMX	75%		%REC	23-120		1	349165	09/02/24	09/04/24	MES
Decachlorobiphenyl	63%		%REC	24-120		1	349165	09/02/24	09/04/24	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	21	1	349165	09/02/24	09/04/24	MES
Aroclor-1221	ND		ug/Kg	50	21	1	349165	09/02/24	09/04/24	MES
Aroclor-1232	ND		ug/Kg	50	22	1	349165	09/02/24	09/04/24	MES
Aroclor-1242	ND		ug/Kg	50	23	1	349165	09/02/24	09/04/24	MES
Aroclor-1248	ND		ug/Kg	50	9.0	1	349165	09/02/24	09/04/24	MES
Aroclor-1254	ND		ug/Kg	50	24	1	349165	09/02/24	09/04/24	MES
Aroclor-1260	ND		ug/Kg	50	28	1	349165	09/02/24	09/04/24	MES
Aroclor-1262	ND		ug/Kg	50	18	1	349165	09/02/24	09/04/24	MES

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 515152

515152-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Aroclor-1268	ND		ug/Kg	50	13	1	349165	09/02/24	09/04/24	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	60%		%REC	19-121		1	349165	09/02/24	09/04/24	MES
Method: EPA 8270C-SIM Prep Method: EPA 3546										
1-Methylnaphthalene	ND		ug/Kg	100	37	10	349132	09/01/24	09/01/24	ZFA
2-Methylnaphthalene	ND		ug/Kg	100	37	10	349132	09/01/24	09/01/24	ZFA
Naphthalene	ND		ug/Kg	100	37	10	349132	09/01/24	09/01/24	ZFA
Acenaphthylene	ND		ug/Kg	100	33	10	349132	09/01/24	09/01/24	ZFA
Acenaphthene	ND		ug/Kg	100	34	10	349132	09/01/24	09/01/24	ZFA
Fluorene	ND		ug/Kg	100	39	10	349132	09/01/24	09/01/24	ZFA
Phenanthrene	ND		ug/Kg	100	39	10	349132	09/01/24	09/01/24	ZFA
Anthracene	ND		ug/Kg	100	23	10	349132	09/01/24	09/01/24	ZFA
Fluoranthene	ND		ug/Kg	100	34	10	349132	09/01/24	09/01/24	ZFA
Pyrene	ND		ug/Kg	100	35	10	349132	09/01/24	09/01/24	ZFA
Benzo(a)anthracene	ND		ug/Kg	100	36	10	349132	09/01/24	09/01/24	ZFA
Chrysene	ND		ug/Kg	100	29	10	349132	09/01/24	09/01/24	ZFA
Benzo(b)fluoranthene	ND		ug/Kg	100	44	10	349132	09/01/24	09/01/24	ZFA
Benzo(k)fluoranthene	ND		ug/Kg	100	27	10	349132	09/01/24	09/01/24	ZFA
Benzo(a)pyrene	ND		ug/Kg	100	28	10	349132	09/01/24	09/01/24	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	100	53	10	349132	09/01/24	09/01/24	ZFA
Dibenz(a,h)anthracene	ND		ug/Kg	100	53	10	349132	09/01/24	09/01/24	ZFA
Benzo(g,h,i)perylene	ND		ug/Kg	100	43	10	349132	09/01/24	09/01/24	ZFA
Surrogates				**Limits**						
Nitrobenzene-d5	88%		%REC	27-125		10	349132	09/01/24	09/01/24	ZFA
2-Fluorobiphenyl	91%		%REC	30-120		10	349132	09/01/24	09/01/24	ZFA
Terphenyl-d14	87%		%REC	33-155		10	349132	09/01/24	09/01/24	ZFA

J Estimated value
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1182604	Batch: 349091
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182604 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cadmium	ND		mg/Kg	0.50	0.053	08/30/24	09/01/24
Chromium	ND		mg/Kg	1.0	0.23	08/30/24	09/01/24
Lead	ND		mg/Kg	1.0	0.75	08/30/24	09/01/24
Nickel	ND		mg/Kg	1.0	0.45	08/30/24	09/01/24

Type: Lab Control Sample	Lab ID: QC1182605	Batch: 349091
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182605 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cadmium	109.3	100.0	mg/Kg	109%		80-120
Chromium	109.3	100.0	mg/Kg	109%		80-120
Lead	114.9	100.0	mg/Kg	115%		80-120
Nickel	113.4	100.0	mg/Kg	113%		80-120

Type: Matrix Spike	Lab ID: QC1182606	Batch: 349091
Matrix (Source ID): Soil (514989-029)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182606 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	101.0	0.2074	97.09	mg/Kg	104%		75-125	0.97
Chromium	117.3	12.76	97.09	mg/Kg	108%		75-125	0.97
Lead	115.9	11.94	97.09	mg/Kg	107%		75-125	0.97
Nickel	112.4	8.570	97.09	mg/Kg	107%		75-125	0.97

Type: Matrix Spike Duplicate	Lab ID: QC1182607	Batch: 349091
Matrix (Source ID): Soil (514989-029)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182607 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cadmium	103.6	0.2074	98.04	mg/Kg	105%		75-125	2	20	0.98
Chromium	118.4	12.76	98.04	mg/Kg	108%		75-125	0	20	0.98
Lead	119.4	11.94	98.04	mg/Kg	110%		75-125	2	20	0.98
Nickel	112.7	8.570	98.04	mg/Kg	106%		75-125	1	20	0.98

Type: Post Digest Spike	Lab ID: QC1182608	Batch: 349091
Matrix (Source ID): Soil (514989-029)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182608 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	11.17	0.2074	9.615	mg/Kg	114%		75-125	0.96
Chromium	22.77	12.76	9.615	mg/Kg	104%		75-125	0.96
Lead	22.12	11.94	9.615	mg/Kg	106%		75-125	0.96
Nickel	18.96	8.570	9.615	mg/Kg	108%		75-125	0.96

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1182609	Batch: 349092
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1182609 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.41	08/30/24	09/03/24

Type: Lab Control Sample	Lab ID: QC1182610	Batch: 349092
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1182610 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	102.0	100.0	mg/Kg	102%		80-120

Type: Matrix Spike	Lab ID: QC1182611	Batch: 349092
Matrix (Source ID): Soil (514989-029)	Method: EPA 6020	Prep Method: EPA 3050B

QC1182611 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	100.8	3.504	97.09	mg/Kg	100%		75-125	0.97

Type: Matrix Spike Duplicate	Lab ID: QC1182612	Batch: 349092
Matrix (Source ID): Soil (514989-029)	Method: EPA 6020	Prep Method: EPA 3050B

QC1182612 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	104.2	3.504	98.04	mg/Kg	103%		75-125	2	20	0.98

Type: Post Digest Spike	Lab ID: QC1182613	Batch: 349092
Matrix (Source ID): Soil (514989-029)	Method: EPA 6020	Prep Method: EPA 3050B

QC1182613 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	91.01	3.504	96.15	mg/Kg	91%		75-125	0.96

Type: Blank	Lab ID: QC1184503	Batch: 349669
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1184503 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.41	09/09/24	09/09/24

Type: Lab Control Sample	Lab ID: QC1184504	Batch: 349669
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1184504 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	102.0	100.0	mg/Kg	102%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1184505	Batch:	349669
Matrix (Source ID):	Soil (515412-001)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1184505 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	106.9	8.386	99.01	mg/Kg	100%		75-125	0.99

Type:	Matrix Spike Duplicate	Lab ID:	QC1184506	Batch:	349669
Matrix (Source ID):	Soil (515412-001)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1184506 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	102.0	8.386	99.01	mg/Kg	95%		75-125	5	20	0.99

Type:	Post Digest Spike	Lab ID:	QC1184507	Batch:	349669
Matrix (Source ID):	Soil (515412-001)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1184507 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	110.3	8.386	98.04	mg/Kg	104%		75-125	0.98

Type:	Blank	Lab ID:	QC1183192	Batch:	349254
Matrix:	Soil	Method:	EPA 7471A	Prep Method:	METHOD

QC1183192 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	0.051	09/03/24	09/03/24

Type:	Lab Control Sample	Lab ID:	QC1183193	Batch:	349254
Matrix:	Soil	Method:	EPA 7471A	Prep Method:	METHOD

QC1183193 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.8769	0.8333	mg/Kg	105%		80-120

Type:	Matrix Spike	Lab ID:	QC1183194	Batch:	349254
Matrix (Source ID):	Soil (514908-001)	Method:	EPA 7471A	Prep Method:	METHOD

QC1183194 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9444	ND	0.8772	mg/Kg	108%		75-125	1.1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1183195**	**Batch:**	**349254**
Matrix (Source ID):	**Soil (514908-001)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC1183195 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	1.061	ND	0.9804	mg/Kg	108%		75-125	0	20	1.2

Type:	**Blank**	**Lab ID:**	**QC1182907**	**Batch:**	**349165**
Matrix:	**Soil**				

QC1182907 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3546							
alpha-BHC	ND		ug/Kg	5.0	2.3	09/02/24	09/03/24
beta-BHC	ND		ug/Kg	5.0	2.6	09/02/24	09/03/24
gamma-BHC	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
delta-BHC	ND		ug/Kg	5.0	2.0	09/02/24	09/03/24
Heptachlor	ND		ug/Kg	5.0	2.3	09/02/24	09/03/24
Aldrin	ND		ug/Kg	5.0	2.4	09/02/24	09/03/24
Heptachlor epoxide	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
Endosulfan I	ND		ug/Kg	5.0	2.6	09/02/24	09/03/24
Dieldrin	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
4,4'-DDE	ND		ug/Kg	5.0	3.1	09/02/24	09/03/24
Endrin	ND		ug/Kg	5.0	2.4	09/02/24	09/03/24
Endosulfan II	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
Endosulfan sulfate	ND		ug/Kg	5.0	2.1	09/02/24	09/03/24
4,4'-DDD	ND		ug/Kg	5.0	1.9	09/02/24	09/03/24
Endrin aldehyde	ND		ug/Kg	5.0	4.7	09/02/24	09/03/24
Endrin ketone	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
4,4'-DDT	ND		ug/Kg	5.0	2.6	09/02/24	09/03/24
Methoxychlor	ND		ug/Kg	9.9	4.4	09/02/24	09/03/24
Toxaphene	ND		ug/Kg	99	65	09/02/24	09/03/24
Chlordane (Technical)	ND		ug/Kg	50	27	09/02/24	09/03/24
Surrogates				**Limits**			
TCMX	94%		%REC	23-120		09/02/24	09/03/24
Decachlorobiphenyl	145%	*	%REC	24-120		09/02/24	09/03/24
Method: EPA 8082 Prep Method: EPA 3546							
Aroclor-1016	ND		ug/Kg	50	21	09/02/24	09/03/24
Aroclor-1221	ND		ug/Kg	50	21	09/02/24	09/03/24
Aroclor-1232	ND		ug/Kg	50	22	09/02/24	09/03/24
Aroclor-1242	ND		ug/Kg	50	23	09/02/24	09/03/24
Aroclor-1248	ND		ug/Kg	50	8.9	09/02/24	09/03/24
Aroclor-1254	ND		ug/Kg	50	23	09/02/24	09/03/24
Aroclor-1260	ND		ug/Kg	50	28	09/02/24	09/03/24
Aroclor-1262	ND		ug/Kg	50	18	09/02/24	09/03/24
Aroclor-1268	ND		ug/Kg	50	13	09/02/24	09/03/24
Surrogates				**Limits**			
Decachlorobiphenyl (PCB)	115%		%REC	19-121		09/02/24	09/03/24

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID: QC1182908**	**Batch: 349165**
Matrix: Soil	**Method: EPA 8081A**	**Prep Method: EPA 3546**

QC1182908 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	58.02	50.00	ug/Kg	116%		22-129
beta-BHC	61.08	50.00	ug/Kg	122%		28-125
gamma-BHC	56.29	50.00	ug/Kg	113%		22-128
delta-BHC	54.78	50.00	ug/Kg	110%		24-131
Heptachlor	56.57	50.00	ug/Kg	113%		18-124
Aldrin	50.76	50.00	ug/Kg	102%		23-120
Heptachlor epoxide	57.73	50.00	ug/Kg	115%		26-120
Endosulfan I	59.63	50.00	ug/Kg	119%		25-126
Dieldrin	47.91	50.00	ug/Kg	96%		23-124
4,4'-DDE	51.15	50.00	ug/Kg	102%		28-121
Endrin	61.62	50.00	ug/Kg	123%		25-127
Endosulfan II	48.04	50.00	ug/Kg	96%		29-121
Endosulfan sulfate	48.16	50.00	ug/Kg	96%		30-121
4,4'-DDD	47.35	50.00	ug/Kg	95%		26-120
Endrin aldehyde	34.09	50.00	ug/Kg	68%	#	10-120
Endrin ketone	51.74	50.00	ug/Kg	103%	#	28-125
4,4'-DDT	49.64	50.00	ug/Kg	99%		22-125
Methoxychlor	58.41	50.00	ug/Kg	117%		28-130
Surrogates						
TCMX	55.07	50.00	ug/Kg	110%		23-120
Decachlorobiphenyl	49.69	50.00	ug/Kg	99%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1182909**	**Batch:**	**349165**
Matrix (Source ID):	**Soil (514990-001)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1182909 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	51.42	ND	49.50	ug/Kg	104%		46-120	0.99
beta-BHC	57.90	ND	49.50	ug/Kg	117%		41-120	0.99
gamma-BHC	50.26	ND	49.50	ug/Kg	102%		41-120	0.99
delta-BHC	48.16	ND	49.50	ug/Kg	97%		38-123	0.99
Heptachlor	53.10	ND	49.50	ug/Kg	107%		39-120	0.99
Aldrin	50.09	ND	49.50	ug/Kg	101%		34-120	0.99
Heptachlor epoxide	55.31	ND	49.50	ug/Kg	112%		43-120	0.99
Endosulfan I	55.79	ND	49.50	ug/Kg	113%		45-120	0.99
Dieldrin	62.61	6.221	49.50	ug/Kg	114%		45-120	0.99
4,4'-DDE	48.94	4.969	49.50	ug/Kg	89%		34-120	0.99
Endrin	43.86	ND	49.50	ug/Kg	89%		40-120	0.99
Endosulfan II	43.53	ND	49.50	ug/Kg	88%		41-120	0.99
Endosulfan sulfate	44.28	ND	49.50	ug/Kg	89%		42-120	0.99
4,4'-DDD	45.42	ND	49.50	ug/Kg	92%		41-120	0.99
Endrin aldehyde	24.91	ND	49.50	ug/Kg	50%	#	30-120	0.99
Endrin ketone	48.36	ND	49.50	ug/Kg	98%	#	45-120	0.99
4,4'-DDT	50.63	6.076	49.50	ug/Kg	102%		35-127	0.99
Methoxychlor	55.68	ND	49.50	ug/Kg	112%		42-136	0.99
Surrogates								
TCMX	48.09		49.50	ug/Kg	97%		23-120	0.99
Decachlorobiphenyl	47.82		49.50	ug/Kg	97%		24-120	0.99

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1182910	Batch:	349165
Matrix (Source ID):	Soil (514990-001)	Method:	EPA 8081A	Prep Method:	EPA 3546

QC1182910 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	52.67	ND	50.00	ug/Kg	105%		46-120	1	30	1
beta-BHC	60.06	ND	50.00	ug/Kg	120%		41-120	3	30	1
gamma-BHC	51.67	ND	50.00	ug/Kg	103%		41-120	2	30	1
delta-BHC	50.99	ND	50.00	ug/Kg	102%		38-123	5	30	1
Heptachlor	54.91	ND	50.00	ug/Kg	110%		39-120	2	30	1
Aldrin	52.75	ND	50.00	ug/Kg	105%		34-120	4	30	1
Heptachlor epoxide	57.38	ND	50.00	ug/Kg	115%		43-120	3	30	1
Endosulfan I	58.35	ND	50.00	ug/Kg	117%		45-120	3	30	1
Dieldrin	65.88	6.221	50.00	ug/Kg	119%		45-120	4	30	1
4,4'-DDE	53.50	4.969	50.00	ug/Kg	97%		34-120	8	30	1
Endrin	48.24	ND	50.00	ug/Kg	96%		40-120	9	30	1
Endosulfan II	48.11	ND	50.00	ug/Kg	96%		41-120	9	30	1
Endosulfan sulfate	46.20	ND	50.00	ug/Kg	92%		42-120	3	30	1
4,4'-DDD	49.61	ND	50.00	ug/Kg	99%		41-120	8	30	1
Endrin aldehyde	24.94	ND	50.00	ug/Kg	50%	#	30-120	1	30	1
Endrin ketone	49.65	ND	50.00	ug/Kg	99%	#	45-120	2	30	1
4,4'-DDT	56.01	6.076	50.00	ug/Kg	112%		35-127	9	30	1
Methoxychlor	61.13	ND	50.00	ug/Kg	122%		42-136	8	30	1
Surrogates										
TCMX	48.77		50.00	ug/Kg	98%		23-120			1
Decachlorobiphenyl	49.96		50.00	ug/Kg	100%		24-120			1

Type:	Lab Control Sample	Lab ID:	QC1182911	Batch:	349165
Matrix:	Soil	Method:	EPA 8082	Prep Method:	EPA 3546

QC1182911 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	449.9	500.0	ug/Kg	90%		14-150
Aroclor-1260	531.1	500.0	ug/Kg	106%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	56.05	50.00	ug/Kg	112%		19-121

Type:	Matrix Spike	Lab ID:	QC1182912	Batch:	349165
Matrix (Source ID):	Soil (514984-005)	Method:	EPA 8082	Prep Method:	EPA 3546

QC1182912 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	413.2	ND	500.0	ug/Kg	83%		42-127	1
Aroclor-1260	541.4	ND	500.0	ug/Kg	108%		38-130	1
Surrogates								
Decachlorobiphenyl (PCB)	57.70		50.00	ug/Kg	115%		19-121	1

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1182913	Batch:	349165
Matrix (Source ID):	Soil (514984-005)	Method:	EPA 8082	Prep Method:	EPA 3546

QC1182913 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	413.2	ND	500.0	ug/Kg	83%		42-127	0	30	1
Aroclor-1260	532.3	ND	500.0	ug/Kg	106%		38-130	2	30	1
Surrogates										
Decachlorobiphenyl (PCB)	54.10		50.00	ug/Kg	108%		19-121			1

Type:	Blank	Lab ID:	QC1182768	Batch:	349132
Matrix:	Soil	Method:	EPA 8270C-SIM	Prep Method:	EPA 3546

QC1182768 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
1-Methylnaphthalene	ND		ug/Kg	10	3.7	09/01/24	09/01/24
2-Methylnaphthalene	ND		ug/Kg	10	3.7	09/01/24	09/01/24
Naphthalene	ND		ug/Kg	10	3.7	09/01/24	09/01/24
Acenaphthylene	ND		ug/Kg	10	3.3	09/01/24	09/01/24
Acenaphthene	ND		ug/Kg	10	3.4	09/01/24	09/01/24
Fluorene	ND		ug/Kg	10	3.9	09/01/24	09/01/24
Phenanthrene	ND		ug/Kg	10	3.9	09/01/24	09/01/24
Anthracene	ND		ug/Kg	10	2.3	09/01/24	09/01/24
Fluoranthene	ND		ug/Kg	10	3.4	09/01/24	09/01/24
Pyrene	ND		ug/Kg	10	3.5	09/01/24	09/01/24
Benzo(a)anthracene	ND		ug/Kg	10	3.6	09/01/24	09/01/24
Chrysene	ND		ug/Kg	10	2.9	09/01/24	09/01/24
Benzo(b)fluoranthene	ND		ug/Kg	10	4.4	09/01/24	09/01/24
Benzo(k)fluoranthene	ND		ug/Kg	10	2.7	09/01/24	09/01/24
Benzo(a)pyrene	ND		ug/Kg	10	2.8	09/01/24	09/01/24
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	10	5.3	09/01/24	09/01/24
Dibenz(a,h)anthracene	ND		ug/Kg	10	5.3	09/01/24	09/01/24
Benzo(g,h,i)perylene	ND		ug/Kg	10	4.3	09/01/24	09/01/24
Surrogates				**Limits**			
Nitrobenzene-d5	79%		%REC	27-125		09/01/24	09/01/24
2-Fluorobiphenyl	76%		%REC	30-120		09/01/24	09/01/24
Terphenyl-d14	78%		%REC	33-155		09/01/24	09/01/24

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1182769**	**Batch:**	**349132**
Matrix:	**Soil**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1182769 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1-Methylnaphthalene	162.5	200.0	ug/Kg	81%		28-130
2-Methylnaphthalene	161.8	200.0	ug/Kg	81%		33-130
Naphthalene	161.3	200.0	ug/Kg	81%		25-130
Acenaphthylene	158.1	200.0	ug/Kg	79%		28-130
Acenaphthene	160.8	200.0	ug/Kg	80%		32-130
Fluorene	160.6	200.0	ug/Kg	80%		35-130
Phenanthrene	163.3	200.0	ug/Kg	82%		35-132
Anthracene	165.0	200.0	ug/Kg	82%		34-136
Fluoranthene	156.5	200.0	ug/Kg	78%		34-139
Pyrene	153.7	200.0	ug/Kg	77%		35-134
Benzo(a)anthracene	168.1	200.0	ug/Kg	84%		30-132
Chrysene	165.9	200.0	ug/Kg	83%		29-130
Benzo(b)fluoranthene	155.0	200.0	ug/Kg	78%		32-137
Benzo(k)fluoranthene	154.2	200.0	ug/Kg	77%		32-130
Benzo(a)pyrene	149.4	200.0	ug/Kg	75%		10-138
Indeno(1,2,3-cd)pyrene	169.2	200.0	ug/Kg	85%		34-132
Dibenz(a,h)anthracene	169.8	200.0	ug/Kg	85%		32-130
Benzo(g,h,i)perylene	168.0	200.0	ug/Kg	84%		27-130
Surrogates						
Nitrobenzene-d5	169.3	200.0	ug/Kg	85%		27-125
2-Fluorobiphenyl	160.6	200.0	ug/Kg	80%		30-120
Terphenyl-d14	159.4	200.0	ug/Kg	80%		33-155

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1182770**	**Batch:**	**349132**
Matrix (Source ID):	**Soil (515045-003)**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1182770 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
1-Methylnaphthalene	174.5	ND	199.0	ug/Kg	88%		25-130	1
2-Methylnaphthalene	173.2	ND	199.0	ug/Kg	87%		32-133	1
Naphthalene	171.2	ND	199.0	ug/Kg	86%		33-130	1
Acenaphthylene	175.0	ND	199.0	ug/Kg	88%		14-157	1
Acenaphthene	169.6	ND	199.0	ug/Kg	85%		28-134	1
Fluorene	172.6	ND	199.0	ug/Kg	87%		27-140	1
Phenanthrene	172.2	ND	199.0	ug/Kg	87%		29-147	1
Anthracene	175.0	ND	199.0	ug/Kg	88%		24-156	1
Fluoranthene	171.8	ND	199.0	ug/Kg	86%		28-160	1
Pyrene	170.4	ND	199.0	ug/Kg	86%		26-153	1
Benzo(a)anthracene	177.6	ND	199.0	ug/Kg	89%		26-174	1
Chrysene	175.2	ND	199.0	ug/Kg	88%		40-139	1
Benzo(b)fluoranthene	177.6	ND	199.0	ug/Kg	89%		36-164	1
Benzo(k)fluoranthene	175.6	ND	199.0	ug/Kg	88%		36-161	1
Benzo(a)pyrene	176.6	ND	199.0	ug/Kg	89%		18-173	1
Indeno(1,2,3-cd)pyrene	194.7	ND	199.0	ug/Kg	98%		26-154	1
Dibenz(a,h)anthracene	193.0	ND	199.0	ug/Kg	97%		38-132	1
Benzo(g,h,i)perylene	193.4	ND	199.0	ug/Kg	97%		36-130	1
Surrogates								
Nitrobenzene-d5	183.7		199.0	ug/Kg	92%		27-125	1
2-Fluorobiphenyl	176.3		199.0	ug/Kg	89%		30-120	1
Terphenyl-d14	178.8		199.0	ug/Kg	90%		33-155	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1182771**	**Batch:**	**349132**
Matrix (Source ID):	**Soil (515045-003)**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1182771 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
1-Methylnaphthalene	164.0	ND	199.0	ug/Kg	82%		25-130	6	35	1
2-Methylnaphthalene	163.2	ND	199.0	ug/Kg	82%		32-133	6	35	1
Naphthalene	160.4	ND	199.0	ug/Kg	81%		33-130	7	35	1
Acenaphthylene	164.2	ND	199.0	ug/Kg	83%		14-157	6	35	1
Acenaphthene	161.5	ND	199.0	ug/Kg	81%		28-134	5	35	1
Fluorene	163.1	ND	199.0	ug/Kg	82%		27-140	6	35	1
Phenanthrene	162.4	ND	199.0	ug/Kg	82%		29-147	6	35	1
Anthracene	165.4	ND	199.0	ug/Kg	83%		24-156	6	35	1
Fluoranthene	163.0	ND	199.0	ug/Kg	82%		28-160	5	35	1
Pyrene	161.4	ND	199.0	ug/Kg	81%		26-153	5	35	1
Benzo(a)anthracene	168.4	ND	199.0	ug/Kg	85%		26-174	5	35	1
Chrysene	164.1	ND	199.0	ug/Kg	82%		40-139	7	35	1
Benzo(b)fluoranthene	165.9	ND	199.0	ug/Kg	83%		36-164	7	35	1
Benzo(k)fluoranthene	159.6	ND	199.0	ug/Kg	80%		36-161	10	35	1
Benzo(a)pyrene	161.0	ND	199.0	ug/Kg	81%		18-173	9	35	1
Indeno(1,2,3-cd)pyrene	172.1	ND	199.0	ug/Kg	86%		26-154	12	35	1
Dibenz(a,h)anthracene	169.6	ND	199.0	ug/Kg	85%		38-132	13	35	1
Benzo(g,h,i)perylene	168.9	ND	199.0	ug/Kg	85%		36-130	14	35	1
Surrogates										
Nitrobenzene-d5	170.9		199.0	ug/Kg	86%		27-125			1
2-Fluorobiphenyl	165.0		199.0	ug/Kg	83%		30-120			1
Terphenyl-d14	166.6		199.0	ug/Kg	84%		33-155			1

\# CCV drift outside limits; average CCV drift within limits per method requirements

* Value is outside QC limits

ND Not Detected

Laboratory Job Number 515152

Subcontracted Products

AmeriSci

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Project Manager
Enthalpy Analytical
Fax #:

Email: incomingreports@enthalpy.com

From: Lateef McIntosh
AmeriSci Job #: 924091010
Subject: PLM-Bulk-Qualitative 24 hour Res
Client Project: EO-515152

Date: Wednesday, September 4, 2024
Time: 16:13:49
Comments:

Number of Pages: _____
(including cover sheet)

NOTE: Attached report is to be considered preliminary until final review with accompanying analysis summary letter is issued.

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Enthalpy Analytical
Attn: Project Manager
931 W. Barkley Ave.

Orange, CA 92868

Date Received 09/04/24
Date Examined 09/04/24

RE: EO-515152

AmeriSci Job # 924091010
P.O. #
Page 1 **of** 1

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
515152-009	924091010-01	***No***	NVA

Location: C-2-0.25

by Lateef McIntosh
on 09/04/24

Analyst Description: Brown, Homogeneous, Non-Fibrous, Soil
Asbestos Types:
Other Material: NVA 100%

Reporting Notes:

Analyzed by: Lateef McIntosh
Date: 9/4/2024

Reviewed by: Lateef McIntosh

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

924091010

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
AmeriSci
24416 S. Main Street
Suite 308
Carson, CA 90745
ATTN: Sample Control
PO #: Required, to be sent via email

Enthalpy Order: EO-515152
PM: Jim Lin
Email: Jim.lin@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: 818-319-2359

Results Due: 09/05/24
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
C-2-0.25	30-AUG-2024 10:03	515152-009	1	Soil	Asbestos by PLM	

Notes:	Relinquished By:	Received By:
		Erikal Erikal
	Date: 9/4/24 1333	Date: 09/04/24 @ 1335
	Date:	Date:
	Date:	Date:

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 515153
Report Level : II
Report Date : 09/17/2024

Analytical Report *prepared for:*

Becky Sundilson
WSP USA (1)
3560 Hyland Ave
Ste 100
Costa Mesa, CA 92626

Location: LAUSD Cowan - US-WSP-31405328.7253

Authorized for release by:

Jim Lin, Service Center Manager
818-319-2359
Jim.lin@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Becky Sundilson
WSP USA (1)
3560 Hyland Ave
Ste 100
Costa Mesa, CA
92626

Lab Job #: 515153
Location: LAUSD Cowan - US-WSP-31405328.7253
Date Received: 08/30/24

Sample ID	Lab ID	Collected	Matrix
S-1-0.25	515153-001	08/30/24 09:24	Soil
S-1-1.5	515153-002	08/30/24 09:26	Soil
S-2-0.25	515153-003	08/30/24 08:42	Soil
S-2-1.5	515153-004	08/30/24 08:47	Soil
S-3-0.25	515153-005	08/30/24 09:12	Soil
S-3-1.5	515153-006	08/30/24 09:15	Soil
S-4-0.25	515153-007	08/30/24 08:53	Soil
S-4-1.5	515153-008	08/30/24 08:57	Soil
C-1-0.25	515153-009	08/30/24 00:00	Soil

Case Narrative

WSP USA (1) 3560 Hyland Ave Ste 100 Costa Mesa, CA 92626 Becky Sundilson	Lab Job Number: Location: Date Received:	515153 LAUSD Cowan - US-WSP-31405328.7253 08/30/24

- This data package contains sample and QC results for five soil samples and one four-point soil composite, requested for the above referenced project on 08/30/24. The samples were received cold and intact.
- With Second Additional.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
No analytical problems were encountered.

Pesticides (EPA 8081A):

- High surrogate recovery was observed for decachlorobiphenyl in the method blank for batch 349165; the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample.
- No other analytical problems were encountered.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7471A):
No analytical problems were encountered.

Asbestos by PLM (EPA 600/R-93-116):
AmeriSci in Carson, CA performed the analysis (see sublab report section for certifications). Please see the AmeriSci case narrative.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: S15153

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	✓
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	WSP	Quote #:	510603
Report To:	Becky Sundilson	Proj. Name:	LAUSD Cowan
Email:	becky.sundilson@wsp.com	Proj. #:	US-WSP-314053287253
Address:	3960 Hyland Ave, Costa	P.O. #:	PO11024US001
	Mesa, CA, 92626	Address:	7615 Cowan Ave
Phone:	714 321 8626	Global ID:	N/A
Fax:	N/A	Sampled By:	Alexis Ruiz / Travis Rhymes

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	HOLD	Cd, Cr, Ni, & Pb by EPA Method 6010	As by EPA Method 6020	Hg by EPA Method 7471	Organochlorine Pesticides by EPA method 8081A	Polycyclic Aromatic Hydrocarbons by EPA Method 8270C	Polychlorinated Biphenyls by EPA Method 8082	Asbestos by Polarized light microscopy (qualitative)			Test Instructions / Comments
1	S-1-0.25	8/30/24	0924	S	8oz Jar	N/A		X	X	X	X	X	X	X			*
2	S-1-1.5		0920	S			X										
3	S-2-0.25		0842	S				X	X	X	X	X	X	X			*
4	S-2-1.5		0847	S			X										
5	S-3-0.25		0912	S				X	X	X	X	X	X	X			*
6	S-3-1.5		0915	S			X										
7	S-4-0.25		0853	S				X	X	X	X	X	X	X			*
8	S-4-1.5	↓	0857	S	↓	↓	X										
9																	ABR
10																	ABR

Analysis Request

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Alexis Ruiz	WSP / Geologist	8/30/25 / 1500
[1] Received By:	[signature]	G. Kim	EA	8/30/25 ~~1500~~ 1400
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

4 of 29

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 8/30/24 WO# 515153 Client: WSP

Section 2: Shipping / Custody **Are custody seals present?** ☐ Yes ☑ No

Custody seals intact on arrival? ☐ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

Shipping Info: _____

Section 3a: Condition / Packaging ☐ **Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)**

Date Opened _____ By (initials)_____ Type of ice used : ☑ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR02 CF: +0.2

Cooler Temp (°C) #1: 2.5 / 2.7 #2: ____/____ #3: ____/____ #4: ____/____ #5: ____/____ #6: ____/____

Section 3b: Microbiology Samples ☑ **No microbiology samples submitted (skip 3b)**

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples ☑ **No air samples submitted (skip 3c)**

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other_____

Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	✓		
2) Is the sampler's name present on the CoC?	✓		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	✓		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	✓		
5) Were all of, and only, the correct samples received?	✓		
6) Are sample labels present, legible, and in agreement with the CoC?	✓		
7) Does the container count match the CoC?	✓		
8) Was sufficient sample volume / mass received for the analyses requested?	✓		
9) Were samples received in proper containers for the analyses requested?	✓		
10) Were samples received with > 1/2 holding time remaining?	✓		
11) Are samples properly preserved as indicated by CoC / labels?	✓		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			✓
13) Are VOA vials free from headspace/bubbles > 6mm?			✓

Section 5: Explanations / Comments ☑ **PM notified**

4.1 White used in the TAT Section.

Date Logged 8/30/24 **By (print)** [illegible] **(sign)** [illegible]

Date Labeled 8/30/24 **By (print)** Orange **(sign)** _____

Re: [External] - Bottle Order-Need more bottles ASAP!!!

Amin, Lindsey <lindsey.amin@wsp.com>
Fri 9/6/2024 11:32 AM
To:Jim Lin <jim.lin@enthalpy.com>
Cc:Sundilson, Becky <becky.sundilson@wsp.com>

2 attachments (6 MB)
515153_level2.pdf; 515152_level2.pdf;

Hi Jim,

Can you please run all of the 0.25 individual samples for Arsenic only on a two day turn around.

S-1-0.25
S-2-0.25
S-3-0.25
S-4-0.25
S-5-0.25
S-6-0.25
S-7-0.25
S-8-0.25

Thank you,

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment

M: 562-322-7934
P : 714-500-5413
Email: Lindsey.amin@wsp.com

WSP USA
3560 Hyland Avenue, Suite 100
Costa Mesa, CA 92626

From: Amin, Lindsey
Sent: Tuesday, August 27, 2024 8:32 AM
To: Jim Lin <jim.lin@enthalpy.com>; Daniel Chavez <daniel.chavez@enthalpy.com>
Cc: Sundilson, Becky <becky.sundilson@wsp.com>
Subject: RE: [External] - Bottle Order-Need more bottles ASAP!!!

Hi Jim,
I was just checking the bottle order and noticed something weird. We were only given 6 jars. However, we are collecting 8 and having the lab composite to create one sample for the 0.25 depth and then holding the 1.5 ft samples pending the analytical from the one 0.25 ft depth composite sample. I hope this makes sense. I don't think it was fully explained at the beginning and I apologize. Please see the table below for reference on this.

Can you please have 12 more jars dropped off to our Costa Mesa office before Thursday 8/29? So, we can sample on 8/30?

Boring location	Sample ID	Hold/Run	Composite Sample ID	Analyses
S-1	S-1-0.25	Run	C-1-0.25	Cd, Cr, Ni, & Pb by EPA Method 6010 As by EPA Method 6020 Organochlorine Pesticides by EPA Method 8081A Polycyclic Aromatic Hydrocarbons by EPA Method 8270c Polychlorinated Biphenyls by EPA Method 8082 Asbestos by polarized Light Microscopy (Quantitative)
	S-1-1.5	**Hold**		
S-2	S-2-0.25	Run		
	S-2-1.5	**Hold**		
S-3	S-3-0.25	Run		
	S-3-1.5	**Hold**		
S-4	S-4-0.25	Run		
	S-4-1.5	**Hold**		
S-5	S-5-0.25	Run	C-2-0.25	
	S-5-1.5	**Hold**		
S-6	S-6-0.25	Run		
	S-6-1.5	**Hold**		
S-7	S-7-0.25	Run		
	S-7-1.5	**Hold**		
S-8	S-8-0.25	Run		
	S-8-1.5	**Hold**		

Thank you,

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment

M: 562-322-7934
P : 714-500-5413
Email: Lindsey.amin@wsp.com

WSP USA
3560 Hyland Avenue, Suite 100
Costa Mesa, CA 92626

From: Amin, Lindsey
Sent: Thursday, August 15, 2024 1:12 PM
To: Jim Lin <jim.lin@enthalpy.com>; Daniel Chavez <daniel.chavez@enthalpy.com>
Cc: Sundilson, Becky <becky.sundilson@wsp.com>
Subject: RE: [External] - Bottle Order

Hi Jim,
Thank you for confirming. We have created the PO. Can you please sign and return at your earliest convenience. Please note that all invoices should be sent to both Becky (cc'd) and myself with the PO number listed so that we can make sure they get input to the system in a timely manner.

Thank you,

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment

M: 562-322-7934
P : 714-500-5413
Email: Lindsey.amin@wsp.com

WSP USA
3560 Hyland Avenue, Suite 100
Costa Mesa, CA 92626

From: Jim Lin <jim.lin@enthalpy.com>
Sent: Thursday, August 15, 2024 9:20 AM
To: Sundilson, Becky <becky.sundilson@wsp.com>; Daniel Chavez <daniel.chavez@enthalpy.com>
Cc: Amin, Lindsey <lindsey.amin@wsp.com>
Subject: Re: [External] - Bottle Order

yes we will work on it

Jim Lin
Service Center Manager

Enthalpy Analytical
7411 Laurel Canyon Boulevard, Suite 8
North Hollywood, CA 91605
M: +1-818-319-2359 O: +1-714-771-9904

Terms and Conditions

From: Sundilson, Becky <becky.sundilson@wsp.com>
Sent: Thursday, August 15, 2024 9:07 AM
To: Daniel Chavez <daniel.chavez@enthalpy.com>; Jim Lin <jim.lin@enthalpy.com>
Cc: Amin, Lindsey <lindsey.amin@wsp.com>
Subject: [External] - Bottle Order

@jim.lin@enthalpy.com

Please have this bottle order (with cooler, labels, and COCs) delivered to our Costa Mesa office by 8/21.

Please confirm email receipt.

Thanks,

Becky Sundilson
Lead Consultant, Environmental Scientist
Earth & Environment
CPSWQ 696, QSD/QSP 1183, SM-QSD 76, QISP 189
Pronouns: she/her

M+ 1 714-321-8626
becky.sundilson@wsp.com

WSP USA
3560 Hyland Ave, Suite 100
Costa Mesa, CA 92626
Please note new address

wsp.com

CONFIDENTIALITY NOTICE: The contents of this email message and any attachments are intended solely for the addressee(s) and may contain confidential, proprietary and/or privileged information and may be legally protected from disclosure. If you are not the intended recipient of this message or their agent, or if this message has been addressed to you in error, please immediately alert the sender by reply email and then delete this message and any attachments and the reply from your system. If you are not the intended recipient, you are hereby notified that any disclosure, use, dissemination, copying, or storage of this message or its attachments is strictly prohibited.

CONFIDENTIALITY NOTICE: The contents of this email message and any attachments are intended solely for the addressee(s) and may contain confidential, proprietary and/or privileged information and may be legally protected from disclosure. If you are not the intended recipient of this message or their agent, or if this message has been addressed to you in error, please immediately alert the sender by reply email and then delete this message and any attachments and the reply from your system. If you are not the intended recipient, you are hereby notified that any disclosure, use, dissemination, copying, or storage of this message or its attachments is strictly prohibited.

[External] - RE: LAUSD Cowan - US-WSP-31405328.7253 - Enthalpy Data (515153)

Sundilson, Becky <becky.sundilson@wsp.com>
Fri 9/13/2024 8:00 AM

To:Jim Lin <Jim.lin@enthalpy.com>
Cc:Amin, Lindsey <lindsey.amin@wsp.com>

Hi @Jim.lin@enthalpy.com

Please run the S-2-1.5 sample for arsenic on a 3 day TAT.

Thanks,

Becky Sundilson
Lead Consultant, Environmental Scientist
Earth & Environment
CPSWQ 696, QSD/QSP 1183, SM-QSD 76, QISP 189
Pronouns: she/her

M+ 1 714-321-8626
becky.sundilson@wsp.com

WSP USA
3560 Hyland Ave, Suite 100
Costa Mesa, CA 92626
Please note new address*

wsp.com

From: Jim Lin <Jim.lin@enthalpy.com>
Sent: Tuesday, September 10, 2024 3:42 PM
To: Sundilson, Becky <becky.sundilson@wsp.com>
Subject: LAUSD Cowan - US-WSP-31405328.7253 - Enthalpy Data (515153)

Hi Becky,

Report with additional request.

Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in the EDD.

Please find attached the following files:
• PDF Deliverable
• Standard format + MDL EDD (515153_standard-mdl_rev1.zip)

You may also access this data at https://labline-orange.enthalpy.com/
Email was also sent to: lindsey.amin@wsp.com

Jim Lin
Service Center Manager

931 W. Barkley Ave., Orange, CA 92868
O: 714-771-6900 M: 818-319-2359
Jim.Lin@enthalpy.com

To help protect the air we breathe, the water we drink, and the soil that feeds us.

Please take a moment to provide customer feedback
Terms and Conditions & Enthalpy Sample Acceptance Policy
https://enthalpy.com/news-events/

-LAEmHhHzdJzBlTWfa4Hgs7pbKl

ENTHALPY ANALYTICAL

Analysis Results for 515153

Becky Sundilson
WSP USA (1)
3560 Hyland Ave
Ste 100
Costa Mesa, CA 92626

Lab Job #: 515153
Location: LAUSD Cowan - US-WSP-31405328.7253
Date Received: 08/30/24

Sample ID: S-1-0.25 **Lab ID: 515153-001** **Collected: 08/30/24 09:24**
Matrix: Soil

515153-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**1.9**		mg/Kg	0.97	0.40	0.97	349669	09/09/24	09/09/24	KAM

Sample ID: S-2-0.25 **Lab ID: 515153-003** **Collected: 08/30/24 08:42**
Matrix: Soil

515153-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**46**		mg/Kg	0.97	0.40	0.97	349669	09/09/24	09/09/24	KAM

Sample ID: S-2-1.5 **Lab ID: 515153-004** **Collected: 08/30/24 08:47**
Matrix: Soil

515153-004 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**1.9**		mg/Kg	0.95	0.39	0.95	350270	09/16/24	09/16/24	KAM

Sample ID: S-3-0.25 **Lab ID: 515153-005** **Collected: 08/30/24 09:12**
Matrix: Soil

515153-005 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**2.1**		mg/Kg	0.98	0.40	0.98	349669	09/09/24	09/09/24	KAM

Sample ID: S-4-0.25 **Lab ID: 515153-007** **Collected: 08/30/24 08:53**
Matrix: Soil

515153-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**1.5**		mg/Kg	0.95	0.39	0.95	349669	09/09/24	09/09/24	KAM

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 515153

Sample ID: C-1-0.25	Lab ID: 515153-009	Collected: 08/30/24
	Matrix: Soil	

515153-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B										
Cadmium	**0.10**	J	mg/Kg	0.49	0.051	0.97	349091	08/30/24	09/01/24	SBW
Chromium	**10**		mg/Kg	0.97	0.22	0.97	349091	08/30/24	09/01/24	SBW
Lead	**6.5**		mg/Kg	0.97	0.73	0.97	349091	08/30/24	09/01/24	SBW
Nickel	**6.9**		mg/Kg	0.97	0.44	0.97	349091	08/30/24	09/01/24	SBW
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**16**		mg/Kg	0.97	0.40	0.97	349092	08/30/24	09/03/24	KAM
Method: EPA 7471A Prep Method: METHOD										
Mercury	ND		mg/Kg	0.14	0.052	1	349254	09/03/24	09/03/24	MLL
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	2.3	1	349165	09/02/24	09/04/24	MES
beta-BHC	ND		ug/Kg	5.0	2.6	1	349165	09/02/24	09/04/24	MES
gamma-BHC	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
delta-BHC	ND		ug/Kg	5.0	2.0	1	349165	09/02/24	09/04/24	MES
Heptachlor	ND		ug/Kg	5.0	1.4	1	349165	09/02/24	09/04/24	MES
Aldrin	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
Endosulfan I	ND		ug/Kg	5.0	2.6	1	349165	09/02/24	09/04/24	MES
Dieldrin	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
4,4'-DDE	ND		ug/Kg	5.0	3.1	1	349165	09/02/24	09/04/24	MES
Endrin	ND		ug/Kg	5.0	2.4	1	349165	09/02/24	09/04/24	MES
Endosulfan II	ND		ug/Kg	5.0	2.5	1	349165	09/02/24	09/04/24	MES
Endosulfan sulfate	ND		ug/Kg	5.0	2.2	1	349165	09/02/24	09/04/24	MES
4,4'-DDD	ND		ug/Kg	5.0	2.0	1	349165	09/02/24	09/04/24	MES
Endrin aldehyde	ND		ug/Kg	5.0	4.8	1	349165	09/02/24	09/04/24	MES
Endrin ketone	ND		ug/Kg	5.0	2.6	1	349165	09/02/24	09/04/24	MES
4,4'-DDT	ND		ug/Kg	5.0	2.7	1	349165	09/02/24	09/04/24	MES
Methoxychlor	ND		ug/Kg	10	4.4	1	349165	09/02/24	09/04/24	MES
Toxaphene	ND		ug/Kg	100	65	1	349165	09/02/24	09/04/24	MES
Chlordane (Technical)	ND		ug/Kg	50	27	1	349165	09/02/24	09/04/24	MES
Surrogates				**Limits**						
TCMX	83%		%REC	23-120		1	349165	09/02/24	09/04/24	MES
Decachlorobiphenyl	80%		%REC	24-120		1	349165	09/02/24	09/04/24	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	21	1	349165	09/02/24	09/04/24	MES
Aroclor-1221	ND		ug/Kg	50	21	1	349165	09/02/24	09/04/24	MES
Aroclor-1232	ND		ug/Kg	50	22	1	349165	09/02/24	09/04/24	MES
Aroclor-1242	ND		ug/Kg	50	23	1	349165	09/02/24	09/04/24	MES
Aroclor-1248	ND		ug/Kg	50	9.0	1	349165	09/02/24	09/04/24	MES
Aroclor-1254	ND		ug/Kg	50	24	1	349165	09/02/24	09/04/24	MES
Aroclor-1260	ND		ug/Kg	50	28	1	349165	09/02/24	09/04/24	MES
Aroclor-1262	ND		ug/Kg	50	18	1	349165	09/02/24	09/04/24	MES

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 515153

515153-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Aroclor-1268	ND		ug/Kg	50	13	1	349165	09/02/24	09/04/24	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	81%		%REC	19-121		1	349165	09/02/24	09/04/24	MES
Method: EPA 8270C-SIM Prep Method: EPA 3546										
1-Methylnaphthalene	ND		ug/Kg	10	3.7	1	349132	09/01/24	09/01/24	ZFA
2-Methylnaphthalene	ND		ug/Kg	10	3.7	1	349132	09/01/24	09/01/24	ZFA
Naphthalene	ND		ug/Kg	10	3.7	1	349132	09/01/24	09/01/24	ZFA
Acenaphthylene	ND		ug/Kg	10	3.3	1	349132	09/01/24	09/01/24	ZFA
Acenaphthene	ND		ug/Kg	10	3.4	1	349132	09/01/24	09/01/24	ZFA
Fluorene	ND		ug/Kg	10	3.9	1	349132	09/01/24	09/01/24	ZFA
Phenanthrene	ND		ug/Kg	10	3.9	1	349132	09/01/24	09/01/24	ZFA
Anthracene	ND		ug/Kg	10	2.3	1	349132	09/01/24	09/01/24	ZFA
Fluoranthene	ND		ug/Kg	10	3.4	1	349132	09/01/24	09/01/24	ZFA
Pyrene	ND		ug/Kg	10	3.5	1	349132	09/01/24	09/01/24	ZFA
Benzo(a)anthracene	ND		ug/Kg	10	3.5	1	349132	09/01/24	09/01/24	ZFA
Chrysene	ND		ug/Kg	10	2.9	1	349132	09/01/24	09/01/24	ZFA
Benzo(b)fluoranthene	ND		ug/Kg	10	4.4	1	349132	09/01/24	09/01/24	ZFA
Benzo(k)fluoranthene	ND		ug/Kg	10	2.7	1	349132	09/01/24	09/01/24	ZFA
Benzo(a)pyrene	ND		ug/Kg	10	2.7	1	349132	09/01/24	09/01/24	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	10	5.3	1	349132	09/01/24	09/01/24	ZFA
Dibenz(a,h)anthracene	ND		ug/Kg	10	5.2	1	349132	09/01/24	09/01/24	ZFA
Benzo(g,h,i)perylene	ND		ug/Kg	10	4.3	1	349132	09/01/24	09/01/24	ZFA
Surrogates				**Limits**						
Nitrobenzene-d5	89%		%REC	27-125		1	349132	09/01/24	09/01/24	ZFA
2-Fluorobiphenyl	85%		%REC	30-120		1	349132	09/01/24	09/01/24	ZFA
Terphenyl-d14	91%		%REC	33-155		1	349132	09/01/24	09/01/24	ZFA

J Estimated value
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1182604	Batch: 349091
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182604 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cadmium	ND		mg/Kg	0.50	0.053	08/30/24	09/01/24
Chromium	ND		mg/Kg	1.0	0.23	08/30/24	09/01/24
Lead	ND		mg/Kg	1.0	0.75	08/30/24	09/01/24
Nickel	ND		mg/Kg	1.0	0.45	08/30/24	09/01/24

Type: Lab Control Sample	Lab ID: QC1182605	Batch: 349091
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182605 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cadmium	109.3	100.0	mg/Kg	109%		80-120
Chromium	109.3	100.0	mg/Kg	109%		80-120
Lead	114.9	100.0	mg/Kg	115%		80-120
Nickel	113.4	100.0	mg/Kg	113%		80-120

Type: Matrix Spike	Lab ID: QC1182606	Batch: 349091
Matrix (Source ID): Soil (514989-029)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182606 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	101.0	0.2074	97.09	mg/Kg	104%		75-125	0.97
Chromium	117.3	12.76	97.09	mg/Kg	108%		75-125	0.97
Lead	115.9	11.94	97.09	mg/Kg	107%		75-125	0.97
Nickel	112.4	8.570	97.09	mg/Kg	107%		75-125	0.97

Type: Matrix Spike Duplicate	Lab ID: QC1182607	Batch: 349091
Matrix (Source ID): Soil (514989-029)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182607 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cadmium	103.6	0.2074	98.04	mg/Kg	105%		75-125	2	20	0.98
Chromium	118.4	12.76	98.04	mg/Kg	108%		75-125	0	20	0.98
Lead	119.4	11.94	98.04	mg/Kg	110%		75-125	2	20	0.98
Nickel	112.7	8.570	98.04	mg/Kg	106%		75-125	1	20	0.98

Type: Post Digest Spike	Lab ID: QC1182608	Batch: 349091
Matrix (Source ID): Soil (514989-029)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1182608 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cadmium	11.17	0.2074	9.615	mg/Kg	114%		75-125	0.96
Chromium	22.77	12.76	9.615	mg/Kg	104%		75-125	0.96
Lead	22.12	11.94	9.615	mg/Kg	106%		75-125	0.96
Nickel	18.96	8.570	9.615	mg/Kg	108%		75-125	0.96

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1182609	Batch: 349092
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1182609 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.41	08/30/24	09/03/24

Type: Lab Control Sample	Lab ID: QC1182610	Batch: 349092
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1182610 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	102.0	100.0	mg/Kg	102%		80-120

Type: Matrix Spike	Lab ID: QC1182611	Batch: 349092
Matrix (Source ID): Soil (514989-029)	Method: EPA 6020	Prep Method: EPA 3050B

QC1182611 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	100.8	3.504	97.09	mg/Kg	100%		75-125	0.97

Type: Matrix Spike Duplicate	Lab ID: QC1182612	Batch: 349092
Matrix (Source ID): Soil (514989-029)	Method: EPA 6020	Prep Method: EPA 3050B

QC1182612 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	104.2	3.504	98.04	mg/Kg	103%		75-125	2	20	0.98

Type: Post Digest Spike	Lab ID: QC1182613	Batch: 349092
Matrix (Source ID): Soil (514989-029)	Method: EPA 6020	Prep Method: EPA 3050B

QC1182613 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	91.01	3.504	96.15	mg/Kg	91%		75-125	0.96

Type: Blank	Lab ID: QC1184503	Batch: 349669
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1184503 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.41	09/09/24	09/09/24

Type: Lab Control Sample	Lab ID: QC1184504	Batch: 349669
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1184504 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	102.0	100.0	mg/Kg	102%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1184505	Batch:	349669
Matrix (Source ID):	Soil (515412-001)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1184505 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	106.9	8.386	99.01	mg/Kg	100%		75-125	0.99

Type:	Matrix Spike Duplicate	Lab ID:	QC1184506	Batch:	349669
Matrix (Source ID):	Soil (515412-001)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1184506 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	102.0	8.386	99.01	mg/Kg	95%		75-125	5	20	0.99

Type:	Post Digest Spike	Lab ID:	QC1184507	Batch:	349669
Matrix (Source ID):	Soil (515412-001)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1184507 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	110.3	8.386	98.04	mg/Kg	104%		75-125	0.98

Type:	Blank	Lab ID:	QC1186576	Batch:	350270
Matrix:	Soil	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1186576 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.41	09/16/24	09/16/24

Type:	Lab Control Sample	Lab ID:	QC1186577	Batch:	350270
Matrix:	Soil	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1186577 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	98.04	100.0	mg/Kg	98%		80-120

Type:	Matrix Spike	Lab ID:	QC1186580	Batch:	350270
Matrix (Source ID):	Soil (515998-016)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1186580 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	97.17	2.237	99.01	mg/Kg	96%		75-125	0.99

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1186581	Batch:	350270
Matrix (Source ID):	Soil (515998-016)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1186581 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	96.67	2.237	99.01	mg/Kg	95%		75-125	1	20	0.99

Type:	Post Digest Spike	Lab ID:	QC1186582	Batch:	350270
Matrix (Source ID):	Soil (515998-016)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1186582 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	91.00	2.237	95.24	mg/Kg	93%		75-125	0.95

Type:	Blank	Lab ID:	QC1183192	Batch:	349254
Matrix:	Soil	Method:	EPA 7471A	Prep Method:	METHOD

QC1183192 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	0.051	09/03/24	09/03/24

Type:	Lab Control Sample	Lab ID:	QC1183193	Batch:	349254
Matrix:	Soil	Method:	EPA 7471A	Prep Method:	METHOD

QC1183193 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.8769	0.8333	mg/Kg	105%		80-120

Type:	Matrix Spike	Lab ID:	QC1183194	Batch:	349254
Matrix (Source ID):	Soil (514908-001)	Method:	EPA 7471A	Prep Method:	METHOD

QC1183194 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9444	ND	0.8772	mg/Kg	108%		75-125	1.1

Type:	Matrix Spike Duplicate	Lab ID:	QC1183195	Batch:	349254
Matrix (Source ID):	Soil (514908-001)	Method:	EPA 7471A	Prep Method:	METHOD

QC1183195 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	1.061	ND	0.9804	mg/Kg	108%		75-125	0	20	1.2

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1182907	Batch: 349165
Matrix: Soil		

QC1182907 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3546							
alpha-BHC	ND		ug/Kg	5.0	2.3	09/02/24	09/03/24
beta-BHC	ND		ug/Kg	5.0	2.6	09/02/24	09/03/24
gamma-BHC	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
delta-BHC	ND		ug/Kg	5.0	2.0	09/02/24	09/03/24
Heptachlor	ND		ug/Kg	5.0	2.3	09/02/24	09/03/24
Aldrin	ND		ug/Kg	5.0	2.4	09/02/24	09/03/24
Heptachlor epoxide	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
Endosulfan I	ND		ug/Kg	5.0	2.6	09/02/24	09/03/24
Dieldrin	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
4,4'-DDE	ND		ug/Kg	5.0	3.1	09/02/24	09/03/24
Endrin	ND		ug/Kg	5.0	2.4	09/02/24	09/03/24
Endosulfan II	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
Endosulfan sulfate	ND		ug/Kg	5.0	2.1	09/02/24	09/03/24
4,4'-DDD	ND		ug/Kg	5.0	1.9	09/02/24	09/03/24
Endrin aldehyde	ND		ug/Kg	5.0	4.7	09/02/24	09/03/24
Endrin ketone	ND		ug/Kg	5.0	2.5	09/02/24	09/03/24
4,4'-DDT	ND		ug/Kg	5.0	2.6	09/02/24	09/03/24
Methoxychlor	ND		ug/Kg	9.9	4.4	09/02/24	09/03/24
Toxaphene	ND		ug/Kg	99	65	09/02/24	09/03/24
Chlordane (Technical)	ND		ug/Kg	50	27	09/02/24	09/03/24
Surrogates				**Limits**			
TCMX	94%		%REC	23-120		09/02/24	09/03/24
Decachlorobiphenyl	145%	*	%REC	24-120		09/02/24	09/03/24
Method: EPA 8082 Prep Method: EPA 3546							
Aroclor-1016	ND		ug/Kg	50	21	09/02/24	09/03/24
Aroclor-1221	ND		ug/Kg	50	21	09/02/24	09/03/24
Aroclor-1232	ND		ug/Kg	50	22	09/02/24	09/03/24
Aroclor-1242	ND		ug/Kg	50	23	09/02/24	09/03/24
Aroclor-1248	ND		ug/Kg	50	8.9	09/02/24	09/03/24
Aroclor-1254	ND		ug/Kg	50	23	09/02/24	09/03/24
Aroclor-1260	ND		ug/Kg	50	28	09/02/24	09/03/24
Aroclor-1262	ND		ug/Kg	50	18	09/02/24	09/03/24
Aroclor-1268	ND		ug/Kg	50	13	09/02/24	09/03/24
Surrogates				**Limits**			
Decachlorobiphenyl (PCB)	115%		%REC	19-121		09/02/24	09/03/24

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID: QC1182908**	**Batch: 349165**
Matrix: Soil	**Method: EPA 8081A**	**Prep Method: EPA 3546**

QC1182908 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	58.02	50.00	ug/Kg	116%		22-129
beta-BHC	61.08	50.00	ug/Kg	122%		28-125
gamma-BHC	56.29	50.00	ug/Kg	113%		22-128
delta-BHC	54.78	50.00	ug/Kg	110%		24-131
Heptachlor	56.57	50.00	ug/Kg	113%		18-124
Aldrin	50.76	50.00	ug/Kg	102%		23-120
Heptachlor epoxide	57.73	50.00	ug/Kg	115%		26-120
Endosulfan I	59.63	50.00	ug/Kg	119%		25-126
Dieldrin	47.91	50.00	ug/Kg	96%		23-124
4,4'-DDE	51.15	50.00	ug/Kg	102%		28-121
Endrin	61.62	50.00	ug/Kg	123%		25-127
Endosulfan II	48.04	50.00	ug/Kg	96%		29-121
Endosulfan sulfate	48.16	50.00	ug/Kg	96%		30-121
4,4'-DDD	47.35	50.00	ug/Kg	95%		26-120
Endrin aldehyde	34.09	50.00	ug/Kg	68%	#	10-120
Endrin ketone	51.74	50.00	ug/Kg	103%	#	28-125
4,4'-DDT	49.64	50.00	ug/Kg	99%		22-125
Methoxychlor	58.41	50.00	ug/Kg	117%		28-130
Surrogates						
TCMX	55.07	50.00	ug/Kg	110%		23-120
Decachlorobiphenyl	49.69	50.00	ug/Kg	99%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1182909**	**Batch:**	**349165**
Matrix (Source ID):	**Soil (514990-001)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1182909 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	51.42	ND	49.50	ug/Kg	104%		46-120	0.99
beta-BHC	57.90	ND	49.50	ug/Kg	117%		41-120	0.99
gamma-BHC	50.26	ND	49.50	ug/Kg	102%		41-120	0.99
delta-BHC	48.16	ND	49.50	ug/Kg	97%		38-123	0.99
Heptachlor	53.10	ND	49.50	ug/Kg	107%		39-120	0.99
Aldrin	50.09	ND	49.50	ug/Kg	101%		34-120	0.99
Heptachlor epoxide	55.31	ND	49.50	ug/Kg	112%		43-120	0.99
Endosulfan I	55.79	ND	49.50	ug/Kg	113%		45-120	0.99
Dieldrin	62.61	6.221	49.50	ug/Kg	114%		45-120	0.99
4,4'-DDE	48.94	4.969	49.50	ug/Kg	89%		34-120	0.99
Endrin	43.86	ND	49.50	ug/Kg	89%		40-120	0.99
Endosulfan II	43.53	ND	49.50	ug/Kg	88%		41-120	0.99
Endosulfan sulfate	44.28	ND	49.50	ug/Kg	89%		42-120	0.99
4,4'-DDD	45.42	ND	49.50	ug/Kg	92%		41-120	0.99
Endrin aldehyde	24.91	ND	49.50	ug/Kg	50%	#	30-120	0.99
Endrin ketone	48.36	ND	49.50	ug/Kg	98%	#	45-120	0.99
4,4'-DDT	50.63	6.076	49.50	ug/Kg	102%		35-127	0.99
Methoxychlor	55.68	ND	49.50	ug/Kg	112%		42-136	0.99
Surrogates								
TCMX	48.09		49.50	ug/Kg	97%		23-120	0.99
Decachlorobiphenyl	47.82		49.50	ug/Kg	97%		24-120	0.99

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1182910	Batch:	349165
Matrix (Source ID):	Soil (514990-001)	Method:	EPA 8081A	Prep Method:	EPA 3546

QC1182910 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	52.67	ND	50.00	ug/Kg	105%		46-120	1	30	1
beta-BHC	60.06	ND	50.00	ug/Kg	120%		41-120	3	30	1
gamma-BHC	51.67	ND	50.00	ug/Kg	103%		41-120	2	30	1
delta-BHC	50.99	ND	50.00	ug/Kg	102%		38-123	5	30	1
Heptachlor	54.91	ND	50.00	ug/Kg	110%		39-120	2	30	1
Aldrin	52.75	ND	50.00	ug/Kg	105%		34-120	4	30	1
Heptachlor epoxide	57.38	ND	50.00	ug/Kg	115%		43-120	3	30	1
Endosulfan I	58.35	ND	50.00	ug/Kg	117%		45-120	3	30	1
Dieldrin	65.88	6.221	50.00	ug/Kg	119%		45-120	4	30	1
4,4'-DDE	53.50	4.969	50.00	ug/Kg	97%		34-120	8	30	1
Endrin	48.24	ND	50.00	ug/Kg	96%		40-120	9	30	1
Endosulfan II	48.11	ND	50.00	ug/Kg	96%		41-120	9	30	1
Endosulfan sulfate	46.20	ND	50.00	ug/Kg	92%		42-120	3	30	1
4,4'-DDD	49.61	ND	50.00	ug/Kg	99%		41-120	8	30	1
Endrin aldehyde	24.94	ND	50.00	ug/Kg	50%	#	30-120	1	30	1
Endrin ketone	49.65	ND	50.00	ug/Kg	99%	#	45-120	2	30	1
4,4'-DDT	56.01	6.076	50.00	ug/Kg	112%		35-127	9	30	1
Methoxychlor	61.13	ND	50.00	ug/Kg	122%		42-136	8	30	1
Surrogates										
TCMX	48.77		50.00	ug/Kg	98%		23-120			1
Decachlorobiphenyl	49.96		50.00	ug/Kg	100%		24-120			1

Type:	Lab Control Sample	Lab ID:	QC1182911	Batch:	349165
Matrix:	Soil	Method:	EPA 8082	Prep Method:	EPA 3546

QC1182911 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	449.9	500.0	ug/Kg	90%		14-150
Aroclor-1260	531.1	500.0	ug/Kg	106%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	56.05	50.00	ug/Kg	112%		19-121

Type:	Matrix Spike	Lab ID:	QC1182912	Batch:	349165
Matrix (Source ID):	Soil (514984-005)	Method:	EPA 8082	Prep Method:	EPA 3546

QC1182912 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	413.2	ND	500.0	ug/Kg	83%		42-127	1
Aroclor-1260	541.4	ND	500.0	ug/Kg	108%		38-130	1
Surrogates								
Decachlorobiphenyl (PCB)	57.70		50.00	ug/Kg	115%		19-121	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1182913	Batch:	349165
Matrix (Source ID):	Soil (514984-005)	Method:	EPA 8082	Prep Method:	EPA 3546

QC1182913 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	413.2	ND	500.0	ug/Kg	83%		42-127	0	30	1
Aroclor-1260	532.3	ND	500.0	ug/Kg	106%		38-130	2	30	1
Surrogates										
Decachlorobiphenyl (PCB)	54.10		50.00	ug/Kg	108%		19-121			1

Type:	Blank	Lab ID:	QC1182768	Batch:	349132
Matrix:	Soil	Method:	EPA 8270C-SIM	Prep Method:	EPA 3546

QC1182768 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
1-Methylnaphthalene	ND		ug/Kg	10	3.7	09/01/24	09/01/24
2-Methylnaphthalene	ND		ug/Kg	10	3.7	09/01/24	09/01/24
Naphthalene	ND		ug/Kg	10	3.7	09/01/24	09/01/24
Acenaphthylene	ND		ug/Kg	10	3.3	09/01/24	09/01/24
Acenaphthene	ND		ug/Kg	10	3.4	09/01/24	09/01/24
Fluorene	ND		ug/Kg	10	3.9	09/01/24	09/01/24
Phenanthrene	ND		ug/Kg	10	3.9	09/01/24	09/01/24
Anthracene	ND		ug/Kg	10	2.3	09/01/24	09/01/24
Fluoranthene	ND		ug/Kg	10	3.4	09/01/24	09/01/24
Pyrene	ND		ug/Kg	10	3.5	09/01/24	09/01/24
Benzo(a)anthracene	ND		ug/Kg	10	3.6	09/01/24	09/01/24
Chrysene	ND		ug/Kg	10	2.9	09/01/24	09/01/24
Benzo(b)fluoranthene	ND		ug/Kg	10	4.4	09/01/24	09/01/24
Benzo(k)fluoranthene	ND		ug/Kg	10	2.7	09/01/24	09/01/24
Benzo(a)pyrene	ND		ug/Kg	10	2.8	09/01/24	09/01/24
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	10	5.3	09/01/24	09/01/24
Dibenz(a,h)anthracene	ND		ug/Kg	10	5.3	09/01/24	09/01/24
Benzo(g,h,i)perylene	ND		ug/Kg	10	4.3	09/01/24	09/01/24
Surrogates				**Limits**			
Nitrobenzene-d5	79%		%REC	27-125		09/01/24	09/01/24
2-Fluorobiphenyl	76%		%REC	30-120		09/01/24	09/01/24
Terphenyl-d14	78%		%REC	33-155		09/01/24	09/01/24

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1182769**	**Batch:**	**349132**
Matrix:	**Soil**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1182769 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1-Methylnaphthalene	162.5	200.0	ug/Kg	81%		28-130
2-Methylnaphthalene	161.8	200.0	ug/Kg	81%		33-130
Naphthalene	161.3	200.0	ug/Kg	81%		25-130
Acenaphthylene	158.1	200.0	ug/Kg	79%		28-130
Acenaphthene	160.8	200.0	ug/Kg	80%		32-130
Fluorene	160.6	200.0	ug/Kg	80%		35-130
Phenanthrene	163.3	200.0	ug/Kg	82%		35-132
Anthracene	165.0	200.0	ug/Kg	82%		34-136
Fluoranthene	156.5	200.0	ug/Kg	78%		34-139
Pyrene	153.7	200.0	ug/Kg	77%		35-134
Benzo(a)anthracene	168.1	200.0	ug/Kg	84%		30-132
Chrysene	165.9	200.0	ug/Kg	83%		29-130
Benzo(b)fluoranthene	155.0	200.0	ug/Kg	78%		32-137
Benzo(k)fluoranthene	154.2	200.0	ug/Kg	77%		32-130
Benzo(a)pyrene	149.4	200.0	ug/Kg	75%		10-138
Indeno(1,2,3-cd)pyrene	169.2	200.0	ug/Kg	85%		34-132
Dibenz(a,h)anthracene	169.8	200.0	ug/Kg	85%		32-130
Benzo(g,h,i)perylene	168.0	200.0	ug/Kg	84%		27-130
Surrogates						
Nitrobenzene-d5	169.3	200.0	ug/Kg	85%		27-125
2-Fluorobiphenyl	160.6	200.0	ug/Kg	80%		30-120
Terphenyl-d14	159.4	200.0	ug/Kg	80%		33-155

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1182770**	**Batch:**	**349132**
Matrix (Source ID):	**Soil (515045-003)**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1182770 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
1-Methylnaphthalene	174.5	ND	199.0	ug/Kg	88%		25-130	1
2-Methylnaphthalene	173.2	ND	199.0	ug/Kg	87%		32-133	1
Naphthalene	171.2	ND	199.0	ug/Kg	86%		33-130	1
Acenaphthylene	175.0	ND	199.0	ug/Kg	88%		14-157	1
Acenaphthene	169.6	ND	199.0	ug/Kg	85%		28-134	1
Fluorene	172.6	ND	199.0	ug/Kg	87%		27-140	1
Phenanthrene	172.2	ND	199.0	ug/Kg	87%		29-147	1
Anthracene	175.0	ND	199.0	ug/Kg	88%		24-156	1
Fluoranthene	171.8	ND	199.0	ug/Kg	86%		28-160	1
Pyrene	170.4	ND	199.0	ug/Kg	86%		26-153	1
Benzo(a)anthracene	177.6	ND	199.0	ug/Kg	89%		26-174	1
Chrysene	175.2	ND	199.0	ug/Kg	88%		40-139	1
Benzo(b)fluoranthene	177.6	ND	199.0	ug/Kg	89%		36-164	1
Benzo(k)fluoranthene	175.6	ND	199.0	ug/Kg	88%		36-161	1
Benzo(a)pyrene	176.6	ND	199.0	ug/Kg	89%		18-173	1
Indeno(1,2,3-cd)pyrene	194.7	ND	199.0	ug/Kg	98%		26-154	1
Dibenz(a,h)anthracene	193.0	ND	199.0	ug/Kg	97%		38-132	1
Benzo(g,h,i)perylene	193.4	ND	199.0	ug/Kg	97%		36-130	1
Surrogates								
Nitrobenzene-d5	183.7		199.0	ug/Kg	92%		27-125	1
2-Fluorobiphenyl	176.3		199.0	ug/Kg	89%		30-120	1
Terphenyl-d14	178.8		199.0	ug/Kg	90%		33-155	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1182771**	**Batch:**	**349132**
Matrix (Source ID):	**Soil (515045-003)**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1182771 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
1-Methylnaphthalene	164.0	ND	199.0	ug/Kg	82%		25-130	6	35	1
2-Methylnaphthalene	163.2	ND	199.0	ug/Kg	82%		32-133	6	35	1
Naphthalene	160.4	ND	199.0	ug/Kg	81%		33-130	7	35	1
Acenaphthylene	164.2	ND	199.0	ug/Kg	83%		14-157	6	35	1
Acenaphthene	161.5	ND	199.0	ug/Kg	81%		28-134	5	35	1
Fluorene	163.1	ND	199.0	ug/Kg	82%		27-140	6	35	1
Phenanthrene	162.4	ND	199.0	ug/Kg	82%		29-147	6	35	1
Anthracene	165.4	ND	199.0	ug/Kg	83%		24-156	6	35	1
Fluoranthene	163.0	ND	199.0	ug/Kg	82%		28-160	5	35	1
Pyrene	161.4	ND	199.0	ug/Kg	81%		26-153	5	35	1
Benzo(a)anthracene	168.4	ND	199.0	ug/Kg	85%		26-174	5	35	1
Chrysene	164.1	ND	199.0	ug/Kg	82%		40-139	7	35	1
Benzo(b)fluoranthene	165.9	ND	199.0	ug/Kg	83%		36-164	7	35	1
Benzo(k)fluoranthene	159.6	ND	199.0	ug/Kg	80%		36-161	10	35	1
Benzo(a)pyrene	161.0	ND	199.0	ug/Kg	81%		18-173	9	35	1
Indeno(1,2,3-cd)pyrene	172.1	ND	199.0	ug/Kg	86%		26-154	12	35	1
Dibenz(a,h)anthracene	169.6	ND	199.0	ug/Kg	85%		38-132	13	35	1
Benzo(g,h,i)perylene	168.9	ND	199.0	ug/Kg	85%		36-130	14	35	1
Surrogates										
Nitrobenzene-d5	170.9		199.0	ug/Kg	86%		27-125			1
2-Fluorobiphenyl	165.0		199.0	ug/Kg	83%		30-120			1
Terphenyl-d14	166.6		199.0	ug/Kg	84%		33-155			1

\# CCV drift outside limits; average CCV drift within limits per method requirements

* Value is outside QC limits

ND Not Detected

Laboratory Job Number 515153

Subcontracted Products

AmeriSci

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Project Manager
Enthalpy Analytical
Fax #:

Email: incomingreports@enthalpy.com

From: Lateef McIntosh
AmeriSci Job #: 924091011
Subject: PLM 24 hour Results
Client Project: EO-515153

Date: Wednesday, September 4, 2024
Time: 16:16:27
Comments:

Number of Pages: _____
(including cover sheet)

NOTE: Attached report is to be considered preliminary until final review with accompanying analysis summary letter is issued.

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Enthalpy Analytical
Attn: Project Manager
931 W. Barkley Ave.

Orange, CA 92868

Date Received 09/04/24
Date Examined 09/04/24

RE: EO-515153

AmeriSci Job # 924091011
P.O. #
Page 1 **of** 1

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
515153-009	924091011-01	***No***	NVA [1]

Location: C-1-0.25

by Lateef McIntosh
on 09/04/24

Analyst Description: Brown, Homogeneous, Non-Fibrous, Soil
Asbestos Types:
Other Material: NVA 100%

Reporting Notes:

(1) Qualitative PLM result may not be reliable for soil, tape, dust or debris samples due to high variability in particle and aggregate size.

Analyzed by: Lateef McIntosh
Date: 9/4/2024

Reviewed by: Lateef McIntosh

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

924091011

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
AmeriSci
24416 S. Main Street
Suite 308
Carson, CA 90745
ATTN: Sample Control
PO #: Required, to be sent via email

Enthalpy Order: EO-515153
PM: Jim Lin
Email: Jim.lin@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: 818-319-2359

Results Due: 09/05/24
Report Level: II
Report To: MDL
EDDs:

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
C-1-0.25	30-AUG-2024 08:53	515153-009	1	Soil	Asbestos by PLM	

Notes:	Relinquished By:	Received By:
		Enthalpy Enthalpy
	Date: 9/4/24 1333	Date: 09/04/24 @ 1336
	Date:	Date:
	Date:	Date:

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 519067
Report Level : II
Report Date : 11/06/2024

Analytical Report *prepared for:*

Becky Sundilson
WSP USA (1)
3560 Hyland Ave
Ste 100
Costa Mesa, CA 92626

Location: LAUSD Cowan, 7615 Cowan Ave., Los Angeles, CA

Authorized for release by:

Jim Lin, Service Center Manager
818-319-2359
Jim.lin@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Becky Sundilson WSP USA (1) 3560 Hyland Ave Ste 100 Costa Mesa, CA 92626	Lab Job #: Location: Date Received:	519067 LAUSD Cowan, 7615 Cowan Ave., Los Angeles, CA 10/28/24

Sample ID	Lab ID	Collected	Matrix
S2-E1-0.5	519067-001	10/28/24 11:52	Soil
S2-E2-0.5	519067-002	10/28/24 12:02	Soil
S2-NE-0.5	519067-003	10/28/24 12:09	Soil
S2-N1-0.5	519067-004	10/28/24 12:16	Soil
S2-N2-0.5	519067-005	10/28/24 12:21	Soil

Case Narrative

WSP USA (1) 3560 Hyland Ave Ste 100 Costa Mesa, CA 92626 Becky Sundilson	Lab Job Number: Location: Date Received:	519067 LAUSD Cowan, 7615 Cowan Ave., Los Angeles, CA 10/28/24

- This data package contains sample and QC results for five soil samples, requested for the above referenced project on 10/28/24. The samples were received cold and intact.
- Report with additional request.

Metals (EPA 6020) Soil:
No analytical problems were encountered.

Metals (EPA 6010B) TCLP Leachate:
No analytical problems were encountered.

Metals (EPA 6010B) WET Leachate:
No analytical problems were encountered.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 519067

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	X
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: 5.6 IR11 5.7 10-1 (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	WSP	Name:	LAUSD Cowan
Report To:	Becky Sundilson	Number:	Not available
Email:	Becky.Sundilson@wsp.com	P.O. #:	P114263US001
Address:	3560 Hyland Ave. Suite 100	Address:	7615 Cowan Ave, Los Angeles,
	Costa Mesa, CA, 92626		CA, 90045
Phone:	(714) 321-8626	Global ID:	Not available
Fax:	Not Available	Sampled By:	Travis Rhymes/Alexis Ruiz

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	As by EPA Method 6020	Test Instructions / Comments
1	S2-E1-0.5	10/28/24	11:52	S	8 oz jar / 1	N/A	X	
2	S2-E2-0.5		12:02				X	
3	S2-NE-0.5		12.09				X	
4	S2-N1-0.5		12:10				X	
5	S2-N2-0.5	↓	12:21	↓	↓	↓	X	
6								
7								
8								
9								
10								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	[signature]	Alexis B. Ruiz	WSP / Geologist	Oct. 28, 2024 / 14:00
[1] Received By:	[signature]	JETH CO	ENTHALPY	Oct. 28, 2024 / 1400
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 10/28/24 WO# 519067 Client: WSP

Section 2: Shipping / Custody **Are custody seals present?** ☐ Yes ☑ No

Custody seals intact on arrival? ☑ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

Shipping Info: _____

Section 3a: Condition / Packaging ☐ **Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)**

Date Opened 10/28/24 By (initials) VKC Type of ice used : ☑ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR11 CF: +0.1

Cooler Temp (°C) #1: 5.6 / 5.7 #2: ____ / ____ #3: ____ / ____ #4: ____ / ____ #5: ____ / ____ #6: ____ / ____

Section 3b: Microbiology Samples ☑ **No microbiology samples submitted (skip 3b)**

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples ☑ **No air samples submitted (skip 3c)**

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	✓		
2) Is the sampler's name present on the CoC?	✓		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	✓		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	✓		
5) Were all of, and only, the correct samples received?	✓		
6) Are sample labels present, legible, and in agreement with the CoC?	✓		
7) Does the container count match the CoC?	✓		
8) Was sufficient sample volume / mass received for the analyses requested?	✓		
9) Were samples received in proper containers for the analyses requested?	✓		
10) Were samples received with > 1/2 holding time remaining?	✓		
11) Are samples properly preserved as indicated by CoC / labels?	✓		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			✓
13) Are VOA vials free from headspace/bubbles > 6mm?			✓

Section 5: Explanations / Comments ☐ **PM notified**

Date Logged 10/28/24 **By (print)** ASB **(sign)** _____

Date Labeled 10/28/24 **By (print)** ESA Orange **(sign)** _____

Outlook

[External] - Re: LAUSD Cowan, 7615 Cowan Ave., Los Angeles, CA - Enthalpy Login Summary (519067)

From Amin, Lindsey <lindsey.amin@wsp.com>
Date Tue 10/29/2024 8:16 AM
To Jim Lin <jim.lin@enthalpy.com>

Hi Jim,
Please only run S2-E1-0.5 and S2-N1-0.5.
Hold the others pending the results of the first two.
Thank you!!!!

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment
O: 714-500-5413
M: 562-322-7934
Email Lindsey.amin@wsp.com

From: Sundilson, Becky <becky.sundilson@wsp.com>
Sent: Tuesday, October 29, 2024 6:18:08 AM
To: Amin, Lindsey <lindsey.amin@wsp.com>
Subject: FW: LAUSD Cowan, 7615 Cowan Ave., Los Angeles, CA - Enthalpy Login Summary (519067)

Becky Sundilson
Lead Consultant, Environmental Scientist
Earth & Environment
CPSWQ 696, QSD/QSP 1183, SM-QSD 76, QISP 189
Pronouns: she/her

M+ 1 714-321-8626
becky.sundilson@wsp.com

WSP USA
3560 Hyland Ave, Suite 100
Costa Mesa, CA 92626

wsp.com

Outlook

[External] - Re: LAUSD Cowan, 7615 Cowan Ave., Los Angeles, CA - Enthalpy Data (519067)

From Amin, Lindsey <lindsey.amin@wsp.com>
Date Fri 11/1/2024 1:30 PM
To Jim Lin <Jim.lin@enthalpy.com>

Hi Jim,
If the data is correct/accurate then please run the following on a 3-day TAT

- S2-E1-0.5 sample for TCLP and STLC
- S2-N1-0.5 sample for STLC
- Run the remaining three step out samples S2-E2-0.5, S2-NE-0.5, and S2-N2-0.5

Thank you,

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment

M: 562-322-7934
P : 714-500-5413
Email: Lindsey.amin@wsp.com

WSP USA
3560 Hyland Avenue, Suite 100
Costa Mesa, CA 92626

From: Amin, Lindsey <lindsey.amin@wsp.com>
Sent: Friday, November 1, 2024 7:47 AM
To: Jim.lin@enthalpy.com <Jim.lin@enthalpy.com>
Subject: Re: LAUSD Cowan, 7615 Cowan Ave., Los Angeles, CA - Enthalpy Data (519067)

Hi Jim,
I just wanted to make sure this data is accurate/correct? The results are much higher than we expected.

Thank you,

Lindsey Amin
Consultant, Environmental Specialist
Earth & Environment

ENTHALPY ANALYTICAL

Analysis Results for 519067

Becky Sundilson
WSP USA (1)
3560 Hyland Ave
Ste 100
Costa Mesa, CA 92626

Lab Job #: 519067
Location: LAUSD Cowan, 7615 Cowan Ave., Los Angeles, CA
Date Received: 10/28/24

Sample ID: S2-E1-0.5 **Lab ID: 519067-001** **Collected: 10/28/24 11:52**

519067-001 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3015A											
Arsenic	**0.13**		mg/L	0.030	0.0067	TCLP Leachate	1	354493	11/02/24	11/04/24	CAP
Method: EPA 6010B Prep Method: METHOD											
Arsenic	**1.5**		mg/L	0.30	0.062	WET Leachate	10	354562	11/04/24	11/04/24	CAP
Method: EPA 6020 Prep Method: EPA 3050B											
Arsenic	**100**		mg/Kg	0.99	0.24	Soil	0.99	354026	10/28/24	10/29/24	DXC

Sample ID: S2-E2-0.5 **Lab ID: 519067-002** **Collected: 10/28/24 12:02**
Matrix: Soil

519067-002 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**31**		mg/Kg	0.96	0.23	0.96	354026	10/28/24	10/29/24	DXC

Sample ID: S2-NE-0.5 **Lab ID: 519067-003** **Collected: 10/28/24 12:09**
Matrix: Soil

519067-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**2.6**		mg/Kg	0.97	0.23	0.97	354026	10/28/24	10/29/24	DXC

Sample ID: S2-N1-0.5 **Lab ID: 519067-004** **Collected: 10/28/24 12:16**

519067-004 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: METHOD											
Arsenic	**1.7**		mg/L	0.30	0.062	WET Leachate	10	354562	11/04/24	11/04/24	CAP
Method: EPA 6020 Prep Method: EPA 3050B											
Arsenic	**68**		mg/Kg	0.95	0.23	Soil	0.95	354026	10/28/24	10/29/24	DXC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 519067

Sample ID: S2-N2-0.5	Lab ID: 519067-005	Collected: 10/28/24 12:21
	Matrix: Soil	

519067-005 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**21**		mg/Kg	1.0	0.24	1	354026	10/28/24	10/29/24	DXC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID:** QC1200770 **Batch:** 354493
Matrix: TCLP Leachate **Method:** EPA 6010B **Prep Method:** EPA 3015A

QC1200770 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/L	0.030	0.0067	11/02/24	11/04/24

Type: Lab Control Sample **Lab ID:** QC1200771 **Batch:** 354493
Matrix: TCLP Leachate **Method:** EPA 6010B **Prep Method:** EPA 3015A

QC1200771 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	1.830	2.000	mg/L	91%		80-120

Type: Matrix Spike **Lab ID:** QC1200772 **Batch:** 354493
Matrix (Source ID): TCLP Leachate (519453-002) **Method:** EPA 6010B **Prep Method:** EPA 3015A

QC1200772 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	1.769	ND	2.000	mg/L	88%		75-125	1

Type: Matrix Spike Duplicate **Lab ID:** QC1200773 **Batch:** 354493
Matrix (Source ID): TCLP Leachate (519453-002) **Method:** EPA 6010B **Prep Method:** EPA 3015A

QC1200773 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	1.795	ND	2.000	mg/L	90%		75-125	1	20	1

Type: Blank **Lab ID:** QC1201066 **Batch:** 354562
Matrix: WET Leachate **Method:** EPA 6010B **Prep Method:** METHOD

QC1201066 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/L	0.30	0.062	11/04/24	11/04/24

Type: Lab Control Sample **Lab ID:** QC1201067 **Batch:** 354562
Matrix: WET Leachate **Method:** EPA 6010B **Prep Method:** METHOD

QC1201067 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	4.111	4.000	mg/L	103%		80-120

Type: Lab Control Sample Duplicate **Lab ID:** QC1201068 **Batch:** 354562
Matrix: WET Leachate **Method:** EPA 6010B **Prep Method:** METHOD

QC1201068 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Arsenic	4.056	4.000	mg/L	101%		80-120	1	20

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1199214	Batch: 354026
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1199214 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.24	10/28/24	10/29/24

Type: Lab Control Sample	Lab ID: QC1199215	Batch: 354026
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1199215 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	104.5	100.0	mg/Kg	104%		80-120

Type: Matrix Spike	Lab ID: QC1199216	Batch: 354026
Matrix (Source ID): Soil (519067-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1199216 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	208.7	104.2	99.01	mg/Kg	105%		75-125	0.99

Type: Matrix Spike Duplicate	Lab ID: QC1199217	Batch: 354026
Matrix (Source ID): Soil (519067-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1199217 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	204.6	104.2	97.09	mg/Kg	103%		75-125	1	20	0.97

Type: Post Digest Spike	Lab ID: QC1199218	Batch: 354026
Matrix (Source ID): Soil (519067-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1199218 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	202.9	104.2	99.01	mg/Kg	100%		75-125	0.99

ND Not Detected

SECTION 10 2813

TOILET ACCESSORIES

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Toilet accessories.
2. Changing tables.

B. Related Requirements:

1. Division 01 - General Requirements.
2. Section 06 1000- Rough Carpentry.
3. Section 09 2900 – Gypsum Board.
4. Section 09 3013 – Ceramic Tiling.
5. Section 10 2113 - Plastic Toilet Compartments.

1.02 REGULATORY REQUIREMENTS

A. Comply with CBC Chapter 11B requirements and ADAAG recommendations for accessibility.

1.03 SUBMITTALS

A. Shop Drawings: Submit a schedule of accessories and Shop Drawings indicating installation methods and fasteners.

B. Changing Tables: Submit conformance to specified standards.

1.04 QUALITY ASSURANCE

A. Coordinate related Work as required to ensure proper and adequate provision in framing, Sections 05 4000 and 09 2216, of backing and wall finish for installation of accessories.

B. Coordinate requirements of Section 10 2113 - Plastic Toilet Compartments to ensure that correct openings are provided in partitions for toilet accessories where required.

C. Pre-installation Meetings: Conform to the requirements of Section 01 3119 Project Meetings.

1.05 DELIVERY, STORAGE AND HANDLING

A. Deliver, store and handle materials and products in compliance with manufacturer's instructions and recommendations. Protect accessories from damage.

PART 2 - PRODUCTS

2.01 GENERAL

A. Accessories shall be provided with necessary anchoring devices and fasteners appropriate for surfaces on which items are to be fastened.

2.02 TOILET ACCESSORIES

A. Liquid Soap Dispenser: 20 gage stainless steel, 40-ounce. capacity, tamper-proof cap and concealed vandal-proof mounting. Bobrick B-2111, Bradley 6562 or equal.

B. Toilet Paper Boxes:

1. For Student and Public Restrooms:

a. Non-accessible toilet compartments: Surface mounted, JR Billington JRB-016, or equal.

b. Accessible adult toilet rooms or compartments: semi-recessed Bobrick B-3888, ASI-0031, Bradley 5412 (double roll tissue holder without paper roll spindle stops), or equal.

c. Accessible elementary or kindergarten toilet rooms or compartments: semi-recessed with theft resistant toilet tissue spindles Bobrick B-6977, include part number 283-604, Bradley 5124-52, or equal

2. For Faculty and Staff Restrooms:

a. Non-accessible toilet compartments: ASI 0264-1A2, Bobrick B-27460 (double roll tissue holder), Bradley, or equal.

b. Accessible toilet rooms or compartments:

1) Semi-recessed Bobrick B4388 or 3888, ASI 0031, Bradley 5412 (double roll tissue holder without paper roll spindle stops), or equal.

2) Surface mounted ASI 0264-1A2, Bobrick B-27460 (double roll tissue holder), Bradley, or equal.

C. Paper Towel Boxes: Type 304 stainless steel, satin finish. Door with tumbler lock and piano hinge.

1. Surface mounted: ASI 0245-SS, Bobrick B-263, Bradley 252, or equal.

2. Semi-recessed: ASI 0457-2, Bradley 244-10, or equal.

3. Recessed: ASI 0457, Bobrick B-35903, Bradley 247, or equal.

D. Grab Bars: 1-1/2 inches diameter by 18 gage stainless steel tubing of size and configuration indicated. Ends shall be screwed to 11 gage stainless steel wall plate, with snaplock cover flanges. Exposed stainless steel shall be 180 grit satin finish.

1. Grab bars fastened to toilet compartments shall be connected using a back-up plate on the other side of the partition, with two through-bolts spaced vertically 2.25 inches minimum apart. The back-up plate shall be minimum 2 inches wide x 3.25 inches, stainless steel, 16 gage or thicker, and the nuts on the other side shall be smooth rounded carriage type, covering the bolt end and not protruding more than 1/4". Grab bars over 36 inches in length shall be furnished with stainless steel support at mid-point.

E. Shower Seat: Folding shower seat with frames and supports constructed entirely of stainless steel tubing. Slats shall be phenolic. Mounting hardware shall consist of stainless steel screws with plastic plugs. Tubular Specialties Manufacturing Inc., Model No. 731-PH, ASI 8206-L, Bobrick B-5181, or equal.

F. Mirrors: Framed mirror, with one piece roll-formed 3/4 inch by 3/4-inch Type 304 stainless steel angle frame, with satin finish. Corners shall be heliarc welded, ground and polished smooth. Glass shall be No. 1 quality 1/4-inch float glass, electrolytically copper-plated. Frame shall be furnished with a continuous integral stiffener on sides. Back of mirror shall be protected by 1/8 inch thick, waterproof, shock-absorbing polyethylene padding and 20 gage galvanized steel back attached to frame with concealed screws. Mirror shall be provided with a 20-gage wall hanger. ASI 0600, Bobrick B-290 series, Bradley, or equal. Size as indicated on Drawings.

G. Medicine Cabinet (Nurse's Office Restroom): Recessed-mounted, one-piece seamless construction of Type 304 stainless steel, satin finish. Cabinet door with No.1 quality 1/8-inch float glass. Provide 4 adjustable stainless steel shelves. ASI 0952, Bobrick B-398, Bradley, or equal.

H. Toilet Seat Cover Dispensers (Faculty and Staff Toilet Rooms only): Surface-mounted, Type 304 stainless steel, satin finish. ASI 0477SM, Bobrick B-221, Bradley, or equal.

I. Sanitary Napkin/Tampon Vendors:

1. Provide at:

a. Middle and high school girl's restrooms.

b. All Gender restrooms.

c. Nurse's office restroom.

2. Recessed, Type 304 stainless steel, satin finish, tumbler lock, free operation. Bobrick B-3706C, ASI, Bradley, or equal.

J. Sanitary Napkin Disposals:

1. Provide at:

a. Middle and high school girl's restrooms.

b. All Gender restrooms.

c. Nurse's office restroom.

2. Recessed: Type 304 stainless steel, satin finish, tumbler lock, free operation. ASI 0473-1, Bobrick B-353, Bradley4737, or equal.

3. Surface Mounted: Type 304 stainless steel, satin finish, tumbler lock, free operation. ASI 0473-1A, Bobrick B-254, , Bradley 4737-11, or equal.

K. Shower Curtain Rod: Surface-mounted, Type 304 stainless steel, satin finish. ASI 1214, Bobrick B-6107, Bradley, or equal.

L. Shower Curtain: White opaque vinyl. ASI 1200–V 72, Bobrick 204-3, Bradley, or equal.

M. Shower Curtain Hooks: Type 304 stainless steel. ASI 1200-SHU, Bobrick 204-1, Bradley, or equal.

N. Mop and Broom Holder Rack: Provide two 24-inch long minimum, stainless steel mop and broom holder racks at each janitor room. ASI 8215-3, Bobrick B223 by 24, Bradley, or equal.

O. Coat Hooks:

1. Hook Strip: Type-304 stainless steel with satin finish. Hooks shall be 14 gage and mounting strip shall be 20-gage. ASI 1307, Bobrick B-232 x 24, Bradley 9943, or equal.

2. Clothes Hook: Provide in family restrooms and single occupancy staff restrooms. Surface mounted heavy-duty forged or cast brass concealed mounting plate with chrome or nickel-plated finish, fastened to wall blocking with two steel screws. Hook shall be secured concealed to the wall plate with three stainless steel setscrews in the flange. Hook shall withstand 300-lb downward pull. Hook shall project less than 4 inches from the face of the wall. ASI 0751, Bradley 9119, Bobrick B216, or equal.

P. Shelf: Stainless steel type-304 with satin finish with integral end brackets, 4" by 24"..

2.03 CHANGING TABLES

A. ADA compliant, welded stainless steel, 16 gage door and 18 gage cabinet made from type 304 stainless steel, satin finish. High-impact-resistant plastic changing surface, with a contoured pull handle, two integral bag hooks and a bed-liner dispenser. Designed and fabricated to support an infant up to 3 1/2 years old and a weight up to 50 lbs. Bed shall be designed to cradle a child's body and shall have an adjustable two-part safety strap.

1. Unit: American Specialties Inc. 9013, or equal.

2. Surface Mounted: Unit: American Specialties Inc. 9013-9, or equal.

B. Unit shall conform to:

1. California Code of Regulations Title 24 and ADA regulations.

2. ANSI A117.1, Standard for Accessible and Usable Buildings and Facilities.

3. ASTM F2285, Standard Consumer Safety Performance Specification for Diaper Changing Tables for Commercial Use.

4. ANSI Z535.4 Product Safety Signs and Labels.

5. ASTM G21, Standard Practice for Determining Resistance of Polymeric Materials to Fungi.

C. 18 gage type 304 satin stainless steel exterior finish with FDA approved blow molded high-density grey polyethylene with antimicrobial interior. Reinforced full-length steel-on-steel hinge mechanism with 11 gage steel mounting plates and mounting hardware. Pneumatic cylinder shall provide controlled, slow opening and closing of bed. Provide molded-in graphics and safety messages in six languages. Provide safety straps and bag hooks.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Check openings in substrates to receive accessories. Verify openings are correctly located and sized to receive accessories, and that locations will comply with disability access requirements. Confirm that blocking, backing or support is properly located and adequate for the accessory installation.

B. Verify spacing of plumbing fixtures and toilet partitions. Confirm spacing and locations are compatible with proposed accessory locations and will allow compliance with disability access requirements.

3.02 INSTALLATION

A. Coordinate locations of backing with the work of Sections 05 4000 and 09 2216.

B. Install toilet accessories in accordance with manufacturer's written recommendations and accessibility requirements. Fasten components firmly in place.

C. Drill holes to correct size and application that is concealed by item with ¼ inch tolerance.

D. Install recessed accessories into wall openings with sheet metal screws into metal frames.

E. Install surface-mounted accessories to backing plates with machine screws, plumb, and aligned.

F. Grab Bars:

1. Fasten to toilet partition with 3-inch diameter stainless steel back plates with studs, couplings, and stainless steel machine screws.

2. At wood stud walls, fasten wood blocking with threaded stainless steel wood screws of sufficient length to penetrate blocking 1 ¼-inch minimum.

3. At metal stud walls, provide 1/8 inch cold-rolled steel plate, drilled and tapped for machine screws, or 16 gage cold-rolled steel plate complete with threaded sleeves for stainless steel machine screws. Weld plates to studs.

4. At concrete or masonry walls, install bars with sheet metal screws and expansion anchors.

5. At plaster or gypsum board walls, provide spacers of same thickness as wall material to prevent crushing of wall material.

G. Mirrors: Install mirror on manufacturer supplied concealed wall hanger and fasten with two theft-resistant locking screws.

H. Stainless Steel Medicine Cabinet: Fasten cabinet to wall.

I. Before Substantial Completion, deliver keys and maintenance instructions and product data to OAR.

3.03 ADJUSTING AND CLEANUP

A. Adjust accessories for proper operation.

B. Remove rubbish, debris, and waste material and legally dispose of off the Project site.

3.04 PROTECTION

A. Protect the Work of this section until Substantial Completion.

END OF SECTION