



PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

16600 Vanowen Street
Van Nuys, California 91406

Prepared for:

Magnolia Public Schools
250 E. 1st Street, Suite 1500
Los Angeles, California 90012

4470424-0002859.00

January 15, 2025

PHASE II ESA REPORT



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1. INTRODUCTION

NV5 has prepared this Phase II Environmental Site Assessment (ESA) Report for 16600 Vanowen Street in Van Nuys, California (hereafter referred to as “the Site”).

2. BACKGROUND

2.1 Subject Property Location and Description

The Site is located at 16600 Vanowen Street in Van Nuys, Los Angeles County, California. The property consists of three parcels of land that total approximately 4.29 acres in size. The Site can be identified by Los Angeles County Tax Assessor Parcel Numbers (APNs): 2231-007-008, 2231-007-016, and 2231-007-017. The Site is located within an area zoned for low residential use. Current uses of adjoining properties include apartment complexes to the north and east, a church and community center to the north, and single-family residences to the south. A Site Location Map is presented as Figure 1.

NV5 completed a Phase I ESA of the Site on November 7, 2022 (revised September 10, 2024) and did not identify evidence of recognized environmental conditions (RECs) in connection with the Site. However, the Site has been previously cultivated for agricultural use. Although no information or observations indicating the misuse or misapplication of pesticides were identified during the Phase I ESA, in certain instances, the chemicals historically applied to the Site, or their breakdown products, could be persistent and not biodegradable. As with any agriculturally developed land, there existed the possibility that pesticides have been applied that may still be present at residual concentrations. Based on the intended use of the property (educational/school), a limited shallow soil sampling investigation was recommended to assess if any residual concentrations of pesticides remain in soil at the Site in excess of regulatory screening levels. Specifically, sampling the shallow soil for organochlorine pesticides was recommended.

Based on the conclusions of the Phase I ESA, NV5 recommended that a Phase II ESA, consisting of shallow soil sampling, be conducted to further assess the historical use of pesticides.

3. SITE ASSESSMENT

3.1 Pre-field Activities

3.1.1 Health and Safety Plan

Prior to conducting field work for the project, NV5 prepared a site-specific Health and Safety Plan (HASP) that was implemented per California Occupational Safety and Health Administration (OSHA) California Code of Regulations (CCR) Title 8, Section 5192 requirements. The scope of work and potential contaminants that could be encountered during the investigation was addressed in the HASP. The on-site health and safety officer was responsible for implementation of the HASP. Daily tailgate meetings were held with NV5 personnel and subcontractors at the beginning of each day of fieldwork. The scope of work, safety hazards, and safety procedures were discussed during the tailgate meetings. All field personnel, including subcontractors, were required to review and sign the HASP before beginning any fieldwork. All NV5 and subcontractor personnel conducting field work onsite have received the OSHA Hazardous Waste Operation training in accordance with 29 CFR 1910.120 and CCR Title 8, Section 5192. The investigation work was completed with no reportable injuries or illnesses.

3.1.2 Site Reconnaissance and Underground Service Alert Notification

NV5 conducted site reconnaissance to locate and mark all proposed boring locations. These locations were inspected for site accessibility, underground utilities, overhead power lines, and any additional potential issues that may be encountered during fieldwork. All locations were marked with white spray paint, as required by Underground Service Alert (USA). USA was notified at least 48 hours before any drilling activities commenced at the Site.

4. SOIL SAMPLE COLLECTION AND ANALYSIS

4.1 Sample Collection and Analysis

On December 24, 2024, a total of 12 borings (MAG-01 to MAG-12) were advanced throughout the Site to assess the shallow soils at the Site for potential impact from the past historic agricultural use of the property. The locations of these borings are shown on Figure 2.

Soil samples were collected at depths of 0.5- and 1.0-feet below ground surface (bgs) from each of the 12 borings. Soil samples were collected using pre-cleaned glass jars provided by the laboratory. Prior to collecting each soil sample, the sampler was decontaminated with a three-bucket wash consisting of a non-phosphate cleaning solution, tap water, and a final rinse in distilled water.

The samples were labeled with the boring identification number and depth, and date and time of collection. Following collection, each sample was stored in zip-lock bags and placed in a chilled cooler and transported to a California certified environmental laboratory on the same day of collection. The samples were recorded on a chain-of-custody record identifying the sample identification, date and time of collection, sample matrix and containers, preservative, requested analyses, sampler's name, couriers used, and responsible laboratory personnel.

The soil samples collected at a depth of 0.5 feet bgs from each location were analyzed by United States Environmental Protection Agency (EPA) Method 8081A for pesticides, and by EPA Method 6020 for arsenic. The soil samples collected at a depth of 1-foot bgs at each location were archived for future analysis if needed.

5. FINDINGS

5.1 Observations

Soils encountered in borings MAG-01 through MAG-12 consisted of fine to coarse sand, silty sand, sandy silt, and sand with gravel in the upper 1-foot. No staining or odors were noted in any of the borings.

5.2 Laboratory Results of Soil-Matrix Samples

Laboratory analytical reports and chain-of-custody documentation for the soil samples are presented in Appendix A. Laboratory results where analyte concentrations were not detected above the laboratory method detection limit (MDL) are identified as "ND" along with the corresponding MDL. Analytical concentrations detected above the MDL, but below the laboratory reporting limit (RL) are considered estimated values and are reported with a "J-flag" identifier (J).

Concentrations of pesticides in soil were compared to the EPA Region IX Regional Screening Levels (RSL) for residential land use and DTSC-modified screening levels (DTSC-SLs) for residential land use.

Concentrations of arsenic in soil were compared to the Southern California Ambient Arsenic Screening Level concentration of 12 milligrams per kilogram (mg/kg) concentration established by the DTSC in the *HERO Human Health Risk Assessment Note Number 11, Southern California Ambient Arsenic Screening Level (DTSC, 2020)*.

The results of the soil sampling are summarized below.

Arsenic

- The results of the arsenic analysis of soil matrix samples are presented in Table 1. While concentrations of arsenic were detected above laboratory detection limits, no analytes were detected above the screening level of 12 mg/kg.

Pesticides

- The results of the pesticide analysis of soil matrix samples are presented in Table 2. Concentrations of several pesticides including, beta-bHC, heptachlor epoxide, dieldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT, and chlordane (technical) were identified in several of the soil samples at concentrations above laboratory detection limits. However, none of the detected concentrations of pesticides exceeded their respective health risk screening level.

6. CONCLUSIONS

Based on the soil sampling conducted during the investigation, NV5 concludes:

- No concentrations of arsenic and pesticides in soil were identified above their respective regulatory agency health-risk based screening levels.

7. RECOMMENDATIONS

Based on the finding and conclusions of this assessment, NV5 recommends no further action with respect to the RECs identified in the Phase I ESA.

8. WARRANTY

8.1 Warranty

NV5 warrants that the findings and conclusions reported herein were conducted in general accordance with standard industry practices. The conclusions presented in the report are based solely on the services described herein and not on scientific tasks or procedures beyond the scope of agreed upon services.

The Phase II ESA has been developed to provide the client with information regarding apparent indications of recognized environmental conditions relating to the Site. It is necessarily limited to the conditions observed and to the information available at the time of the work. The assessment and conclusions presented herein were based upon the subjective evaluation of limited data. They may not represent all conditions at the subject site as they reflect the information gathered from specific locations. NV5 warrants that the findings and conclusions contained herein have been promulgated in accordance

with generally accepted environmental investigation methodology and only for the site described in this report. The findings set forth in this report are strictly limited to the date of the evaluation.

The scope of the Phase II ESA was developed specifically to meet the client's stated objectives and the data that was developed may not be suitable for use to satisfy other objectives. Any limitations on the data to meet the client's stated objectives are described in the report.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment, or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or conditions" can also change over time. NV5 does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. NV5 believes that the findings and conclusions provided in this report are reasonable. However, no other warranties are implied or expressed.

Analytical data contained in this report is limited to the corresponding sampling location, depth, sampled material, selected range of analyses and laboratory reporting limits. Additional chemical constituents not searched for during the current study may be present in soil, soil gas and/or groundwater at the site.

The location and concentration of contaminants can vary over time due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.

8.2 Use by Third Parties

This report was prepared pursuant to the contract NV5 has with Magnolia Public Schools. That contractual relationship included an exchange of information about the subject site that was unique and between NV5 and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between NV5 and its client, reliance, or any use of this report by anyone other than the Magnolia Public Schools, for whom it was prepared, is prohibited and therefore not foreseeable to NV5.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to NV5's contract with Magnolia Public Schools. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties, or representations, expressed or implied in this report, are made to any such third party.

9. REFERENCES

1. Alta Environmental DBA (NV5), *Phase I Environmental Site Assessment Report, 16600 Vanowen Street, Van Nuys, California*, November 7, 2022 rev September 10, 2024.
2. United States Environmental Protection Agency (USEPA), *Regional Screening Levels*, updated November 2024.
3. DTSC, Human and Ecological Risk Office, Human Health Risk Assessment Not Number 11, *Southern California Ambient Arsenic Screening Level*, December 28, 2020
4. DTSC, Human and Ecological Risk Office, Human Health Risk Assessment, Note #3, *DTSC Modified Screening Levels*, updated June 2020 revised May 2022.

TABLES

TABLE 1
 Summary of Shallow Soil Sample Arsenic Results
 16600 Vanowen Street
 Van Nuys, CA 91406

Sample ID	Sample Date	Arsenic - EPA Method 6020
		mg/kg
MDL:		0.36-0.40
RL:		0.95-1.0
Site Screening Level:		12*
MAG-01-0.5	12/24/2024	4.8
MAG-02-0.5	12/24/2024	4.3
MAG-03-0.5	12/24/2024	8.2
MAG-04-0.5	12/24/2024	4.7
MAG-05-0.5	12/24/2024	2.4
MAG-06-0.5	12/24/2024	4.2
MAG-07-0.5	12/24/2024	5.1
MAG-08-0.5	12/24/2024	4.3
MAG-09-0.5	12/24/2024	4.5
MAG-10-0.5	12/24/2024	3.8
MAG-11-0.5	12/24/2024	4.1
MAG-12-0.5	12/24/2024	3.4

NOTES:

mg/kg = milligrams per kilogram

MDL = Method Detection Limit

RL = Reporting Limit

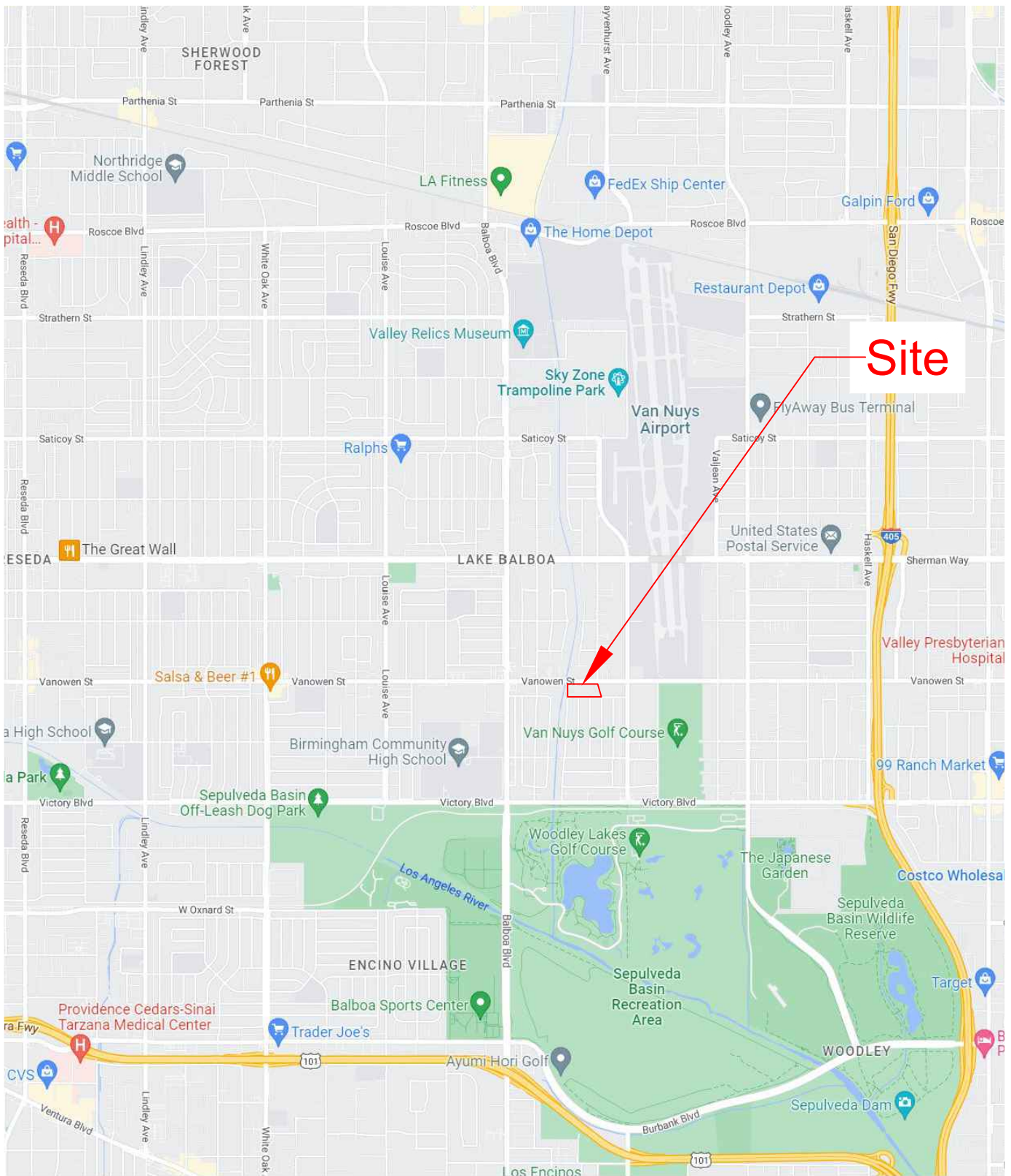
* = DTSC upper bound estimate (95th percentile) for background concentrations in Southern California Soil (December 2020)

TABLE 2
 Summary of Shallow Soil Sample Pesticide Results
 16600 Vanowen Street
 Van Nuys, CA 91406

Sample ID	Sample Date	Soil Matrix Pesticide Results by EPA Method 8081A (µg/kg)																					
		alpha-BHC	beta-BHC	gamma-BHC	delta-BHC	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	Endosulfan sulfate	4,4'-DDD	Endrin aldehyde	Endrin ketone	4,4'-DDT	Methoxychlor	Toxaphene	Chlordane (Technical)		
RL (µg/kg):		4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	4.9-5.0	9.8-9.9	98-99	49-50		
RSLs - Residential Soil (µg/kg):		86	300	570	NE	130	39	70	470,000	34	2,000	19,000	470,000	380,000	2,300	NE	NE	1,900	320,000	490	1,700		
DTSC-SLs - Residential Soil (µg/kg):		86	300	570	NE	130	39	70	450,000	34	2,000	19,000	450,000	380,000	2,300	NE	NE	1,900	320,000	450	1,700		
MAG-01-0.5	12/24/2024	ND	2.1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0J	ND	ND	ND
MAG-02-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3J	ND	ND	ND
MAG-03-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	3.1J	ND	ND	ND	9.3	ND	ND	ND	ND
MAG-04-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	5.6	ND	6.4	60	ND	ND	ND	ND	ND	ND	ND	90	ND	ND	560	ND
MAG-05-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAG-06-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	5.3	170	ND	ND	ND	5.3	ND	ND	ND	14	ND	ND	ND	ND
MAG-07-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4	ND	ND	ND	ND
MAG-08-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	5.1	ND	ND	ND	19	ND	ND	ND	ND
MAG-09-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	43	ND	ND	ND	6.7	ND	ND	ND	38	ND	ND	ND	51
MAG-10-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAG-11-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8	ND	ND	ND	ND	ND	ND	ND	21	ND	ND	ND	410
MAG-12-0.5	12/24/2024	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7J	ND	ND	ND	ND	ND	ND	ND	8.4	ND	ND	ND	ND

NOTES:
 µg/kg = micrograms per kilogram
 RL = Reporting Limit
 MDL = Method Detection Limit
 RSL = Regional Screening Level, Environmental Protection Agency (Pacific Southwest, Region 9), updated November 2024
 DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels, updated May 2022
 NE = Not Established
 ND = Not detected at or above the reported method detection limit (<MDL)

FIGURES



— Approximate Outline of Site

FIGURE 1: Site Vicinity Map

CLIENT:
Magnolia Public Schools

PROJECT #: MAGS-24-2859

SITE LOCATION: 16600 Vanowen Street
Van Nuys, California 91406



3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.nv5.com

DRAWN: NS

APPROVED: RS

SCALE:
None

DATE: Jan. 2025





● Soil Boring Location

FIGURE 2: Soil Boring Location Map

CLIENT:
Magnolia Public Schools

SITE LOCATION: 16600 Vanowen Street
Van Nuys, California 91406

PROJECT #: MAGS-24-2859



3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.nv5.com

DRAWN: NS

APPROVED: RS

SCALE:
None

DATE: Jan. 2025



W:\Clients\HMM\Magnolia Public Schools (MAGS)\MAGS-24-2859\Van Owen Soil Sampling\Photos - Drawings\MAGS-24-2859 CAD.dwg

APPENDIX A

Laboratory Analytical Reports



ENTHALPY
ANALYTICAL

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

enthalpy.com

Lab Job Number : 523010
Report Level : II
Report Date : 01/03/2025

Analytical Report *prepared for:*

Reid Shigeno
NV5 - Long Beach
3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807

Location: Vanowen St. Site, 16600 Vanowen St., Van Nuys, 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, ORELAP# 4197

Sample Summary

Reid Shigeno NV5 - Long Beach 3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Lab Job #: 523010 Location: Vanowen St. Site, 16600 Vanowen St., Van Nuys, CA Date Received: 12/24/24
---	--

Sample ID	Lab ID	Collected	Matrix
MAG-01-0.5	523010-001	12/24/24 07:51	Soil
MAG-01-01	523010-002	12/24/24 07:52	Soil
MAG-02-0.5	523010-003	12/24/24 07:54	Soil
MAG-02-01	523010-004	12/24/24 07:55	Soil
MAG-03-0.5	523010-005	12/24/24 07:58	Soil
MAG-03-01	523010-006	12/24/24 07:58	Soil
MAG-04-0.5	523010-007	12/24/24 08:02	Soil
MAG-04-01	523010-008	12/24/24 08:02	Soil
MAG-05-0.5	523010-009	12/24/24 08:07	Soil
MAG-05-01	523010-010	12/24/24 08:07	Soil
MAG-06-0.5	523010-011	12/24/24 08:10	Soil
MAG-06-01	523010-012	12/24/24 08:10	Soil
MAG-07-0.5	523010-013	12/24/24 08:15	Soil
MAG-07-01	523010-014	12/24/24 08:15	Soil
MAG-08-0.5	523010-015	12/24/24 08:20	Soil
MAG-08-01	523010-016	12/24/24 08:21	Soil
MAG-09-0.5	523010-017	12/24/24 08:23	Soil
MAG-09-01	523010-018	12/24/24 08:23	Soil
MAG-10-0.5	523010-019	12/24/24 08:26	Soil
MAG-10-01	523010-020	12/24/24 08:26	Soil
MAG-11-0.5	523010-021	12/24/24 08:29	Soil
MAG-11-01	523010-022	12/24/24 08:30	Soil
MAG-12-0.5	523010-023	12/24/24 08:33	Soil
MAG-12-01	523010-024	12/24/24 08:35	Soil

Case Narrative

NV5 - Long Beach Lab Job Number: 523010
3777 Long Beach Blvd. Location: Vanowen St. Site, 16600 Vanowen St., Van Nuys,
Annex Building CA
Long Beach, CA 90807 Date Received: 12/24/24
Reid Shigeno

This data package contains sample and QC results for twelve soil samples, requested for the above referenced project on 12/24/24. The samples were received cold and intact.

Pesticides (EPA 8081A):

- High RPD was observed for endrin aldehyde and methoxychlor in the MS/MSD of MAG-01-0.5 (lab # 523010-001); these analytes were not detected at or above the RL in the associated samples.
- High surrogate recovery was observed for decachlorobiphenyl in MAG-12-0.5 (lab # 523010-023); the corresponding TCMX surrogate recovery was within limits.
- No other analytical problems were encountered.

Metals (EPA 6020):

No analytical problems were encountered.



Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Chain of Custody Record

Lab No: **1 523010**
 Page: **2** of **3**

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

Turn Around Time (rush by advanced notice only)

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

Preservatives:
 1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
 4 = H₂SO₄ 5 = NaOH 6 = Other
 Sample Receipt Temp:
 2.9 12.12
 3.1 10.72
 (lab use only)

PROJECT INFORMATION

Company:	NVS	Name:	Vanover St. Site
Report To:	Reid Shigemo	Number:	Mags-22-11161
Email:	Reid.Shigemo@nvs.com	P.O. #:	
Address:	3477 Long Beach Blvd.	Address:	16600 Vanover St.
Phone:	Long Beach CA 90807	Global ID:	Van Nuys, CA 91406
Fax:	562 495 5777	Sampled By:	Noah Stevens

Analysis Request

EPA Method 8081A PCBs	X
EPA Method 6020 Arsenic	X

Test Instructions / Comments

Hold and Archive
 Please cc: Noah.Stevens@nvs.com with results.

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1 May-01-05	12/24/2024	07:51	Soil	1x 8oz Jar	None
2 May-01-01		07:52			
3 May-02-05		07:54			
4 May-02-01		07:55			
5 May-03-05		07:58			
6 May-03-01		07:58			
7 May-04-05		08:02			
8 May-04-01		08:02			
9 May-05-05		08:07			
10 May-05-01		08:07			

Analysis Request	Test Instructions / Comments
EPA Method 8081A PCBs	X
EPA Method 6020 Arsenic	X
	X
	X
	X
	X
	X
	X
	X
	X

CUSTOMER INFORMATION

Signature	Print Name	Company / Title	Date / Time
<i>Noah Stevens</i>	Noah Stevens	NVS Specialist	12/24/2024 11:20
<i>Reid Shigemo</i>	JETH CO	ENTHALPY	12/24/24 11:20

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Chain of Custody Record

Lab No: **2 S23070**
Page: **4** of **3**

Turn Around Time (rush by advanced notice only)

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

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

Preservatives:
1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
4 = H₂SO₄ 5 = NaOH 6 = Other

Sample Receipt Temp:
2.9 1R12
3.1 1R12

PROJECT INFORMATION

Company:	NV5	Name:	Vanaman Street Site
Report To:	Reid Shigano @nv5.com	Number:	Mags - 22-11161
Email:	Reid Shigano	P.O. #:	
Address:	3777 Long Beach Blvd.	Address:	16600 Vanaman St.
	Long Beach CA 90807		Van Nuys, CA 91406
Phone:	562 495 5777	Global ID:	
Fax:		Sampled By:	Noah Stevens

Analysis Request

	EPA Method 6020A OCPs				
	EPA Method 6020 Amsc				
		X	X		
		X	X		
		X	X		
		X	X		
		X	X		
		X	X		
		X	X		
		X	X		



Test Instructions / Comments

Hold and Archive
Please cc: Noah, Stevens @nv5.com with results.

CUSTOMER INFORMATION

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1	12/24/24	08:10	Soil	1 x 802 jar	None
2		08:10			
3		08:15			
4		08:15			
5		08:20			
6		08:21			
7		08:23			
8		08:23			
9		08:26			
10		08:26			

Signature

Relinquished By: 
Received By: 
Relinquished By:
Received By:

Company / Title

NV5 Specialist
ENTHALPY

Date / Time

12/24/2024 11:20
12/24/24 11:20



Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Chain of Custody Record

Lab No: 523010
Page: 3 of 3

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

Turn Around Time (rush by advanced notice only)

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

Preservatives:
1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
4 = H₂SO₄ 5 = NaOH 6 = Other
Sample Receipt Temp:
2.9 12.2
3.1 40.2
(lab use only)

PROJECT INFORMATION

Company: NVE
Report To: Reid Shigone
Email: Reid.Shigone@nvs.com
Address: 3777 Long Beach Blvd.
Long Beach CA 90807
Phone: 562 495 5777
Global ID:
Sampled By: North Stevens

Analysis Request

Vanaman St. Site
Mags. 22 - 1161
16600 Vanaman St.
Van Nuys, CA 91406
EPA Method 8081A GPRs
EPA Method 6020 Arsenic
Hold and Archive
Please call: Noah Stevens@nvs.com with results.

Test Instructions / Comments

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1 Mag-11-05	12/24/24	08:29	Soil	1x 8oz jar	None
2 Mag-11-01		08:30			
3 Mag-12-0.5		08:33			
4 Mag-12-01		08:35			
5					
6					
7					
8					
9					
10					

Signature	Print Name	Company / Title	Date / Time
	Noah Stevens	NVS Specialist	12/24/24 11:20
	JETH CO	ENTHALPY	12/24/24 11:20

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 12/24/29 WO# 523010 Client: NVS Long Beach

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 12/24/29 By (initials) JKC 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: 11212 CF: 702

Cooler Temp (°C) #1: 2.9 / 3.1 #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?	X		
2) Is the sampler's name present on the CoC?	X		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	X		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)		X	
5) Were all of, and only, the correct samples received?	X		
6) Are sample labels present, legible, and in agreement with the CoC?	X		
7) Does the container count match the CoC?	X		
8) Was sufficient sample volume / mass received for the analyses requested?	X		
9) Were samples received in proper containers for the analyses requested?	X		
10) Were samples received with > 1/2 holding time remaining?	X		
11) Are samples properly preserved as indicated by CoC / labels?	X		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			X
13) Are VOA vials free from headspace/bubbles > 6mm?			X

Section 5: Explanations / Comments

PM notified

Date Logged 12/24/29 By (print) G. Kim (sign) [Signature]
 Date Labeled 12/24/29 By (print) Orange (sign) _____

Analysis Results for 523010

 Reid Shigeno
 NV5 - Long Beach
 3777 Long Beach Blvd.
 Annex Building
 Long Beach, CA 90807

 Lab Job #: 523010
 Location: Vanowen St. Site, 16600 Vanowen
 St., Van Nuys, CA
 Date Received: 12/24/24

Sample ID: MAG-01-0.5	Lab ID: 523010-001	Collected: 12/24/24 07:51
Matrix: Soil		

523010-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	4.8		mg/Kg	0.99	0.40	0.99	358832	12/24/24	12/24/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
beta-BHC	2.1	C,J	ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	4.9	1.7	0.98	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	4.9	2.3	0.98	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	4.9	2.2	0.98	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	4.9	2.1	0.98	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	4.9	2.2	0.98	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	4.9	3.0	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDE	ND		ug/Kg	4.9	3.1	0.98	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	4.9	3.1	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDD	ND		ug/Kg	4.9	1.5	0.98	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	4.9	3.5	0.98	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDT	3.0	#,C,J	ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	9.8	3.7	0.98	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	98	85	0.98	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	ND		ug/Kg	49	38	0.98	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	86%		%REC	23-120		0.98	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	97%		%REC	24-120		0.98	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-02-0.5	Lab ID: 523010-003	Collected: 12/24/24 07:54
Matrix: Soil		

523010-003 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	4.3		mg/Kg	0.98	0.40	0.98	358832	12/24/24	12/24/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	5.0	1.7	0.99	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	5.0	2.4	0.99	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	5.0	2.3	0.99	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.1	0.99	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	5.0	2.2	0.99	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	5.0	3.0	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDE	ND		ug/Kg	5.0	3.1	0.99	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDD	ND		ug/Kg	5.0	1.6	0.99	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	5.0	3.5	0.99	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDT	4.3	#,J	ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	9.9	3.8	0.99	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	99	86	0.99	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	ND		ug/Kg	50	38	0.99	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	87%		%REC	23-120		0.99	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	94%		%REC	24-120		0.99	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-03-0.5	Lab ID: 523010-005	Collected: 12/24/24 07:58
Matrix: Soil		

523010-005 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	8.2		mg/Kg	0.95	0.39	0.95	358832	12/24/24	12/24/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	5.0	1.7	0.99	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	5.0	2.4	0.99	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	5.0	2.3	0.99	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.1	0.99	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	5.0	2.2	0.99	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	5.0	3.0	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDE	18		ug/Kg	5.0	3.1	0.99	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDD	3.1	#,C,J	ug/Kg	5.0	1.6	0.99	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	5.0	3.5	0.99	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDT	9.3	#	ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	9.9	3.8	0.99	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	99	86	0.99	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	ND		ug/Kg	50	38	0.99	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	74%		%REC	23-120		0.99	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	85%		%REC	24-120		0.99	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-04-0.5	Lab ID: 523010-007	Collected: 12/24/24 08:02
Matrix: Soil		

523010-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	4.7		mg/Kg	0.97	0.40	0.97	358832	12/24/24	12/24/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	5.0	1.7	1	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	5.0	2.4	1	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	5.0	2.3	1	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	5.6	C	ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	5.0	2.2	1	359246	12/31/24	01/02/25	MES
Dieldrin	6.4		ug/Kg	5.0	3.1	1	359246	12/31/24	01/02/25	MES
4,4'-DDE	60		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES
4,4'-DDD	ND		ug/Kg	5.0	1.6	1	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	5.0	3.6	1	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES
4,4'-DDT	90	#	ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	10	3.8	1	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	100	87	1	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	560		ug/Kg	50	39	1	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	84%		%REC	23-120		1	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	94%		%REC	24-120		1	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-05-0.5	Lab ID: 523010-009	Collected: 12/24/24 08:07
Matrix: Soil		

523010-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	2.4		mg/Kg	0.98	0.40	0.98	358832	12/24/24	12/24/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	5.0	1.7	0.99	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	5.0	2.4	0.99	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	5.0	2.3	0.99	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.1	0.99	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	5.0	2.2	0.99	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	5.0	3.0	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDE	ND		ug/Kg	5.0	3.1	0.99	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDD	ND		ug/Kg	5.0	1.6	0.99	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	5.0	3.5	0.99	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDT	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	9.9	3.8	0.99	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	99	86	0.99	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	ND		ug/Kg	50	38	0.99	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	83%		%REC	23-120		0.99	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	91%		%REC	24-120		0.99	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-06-0.5	Lab ID: 523010-011	Collected: 12/24/24 08:10
Matrix: Soil		

523010-011 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	4.2		mg/Kg	0.95	0.36	0.95	358834	12/24/24	12/26/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	4.9	1.7	0.98	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	4.9	2.3	0.98	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	4.9	2.2	0.98	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	4.9	2.1	0.98	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	4.9	2.2	0.98	359246	12/31/24	01/02/25	MES
Dieldrin	5.3	C	ug/Kg	4.9	3.0	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDE	170		ug/Kg	4.9	3.1	0.98	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	4.9	3.1	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDD	5.3	#,C	ug/Kg	4.9	1.5	0.98	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	4.9	3.5	0.98	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDT	14	#,C	ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	9.8	3.7	0.98	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	98	85	0.98	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	ND		ug/Kg	49	38	0.98	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	82%		%REC	23-120		0.98	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	97%		%REC	24-120		0.98	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-07-0.5	Lab ID: 523010-013	Collected: 12/24/24 08:15
Matrix: Soil		

523010-013 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist	
Method: EPA 6020											
Prep Method: EPA 3050B											
Arsenic	5.1		mg/Kg	1.0	0.38	1	358834	12/24/24	12/26/24	KAM	
Method: EPA 8081A											
Prep Method: EPA 3546											
alpha-BHC	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES	
beta-BHC	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES	
gamma-BHC	ND		ug/Kg	5.0	1.7	1	359246	12/31/24	01/02/25	MES	
delta-BHC	ND		ug/Kg	5.0	2.4	1	359246	12/31/24	01/02/25	MES	
Heptachlor	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES	
Aldrin	ND		ug/Kg	5.0	2.3	1	359246	12/31/24	01/02/25	MES	
Heptachlor epoxide	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES	
Endosulfan I	ND		ug/Kg	5.0	2.2	1	359246	12/31/24	01/02/25	MES	
Dieldrin	ND		ug/Kg	5.0	3.1	1	359246	12/31/24	01/02/25	MES	
4,4'-DDE	ND		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES	
Endrin	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES	
Endosulfan II	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES	
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES	
4,4'-DDD	ND		ug/Kg	5.0	1.6	1	359246	12/31/24	01/02/25	MES	
Endrin aldehyde	ND		ug/Kg	5.0	3.6	1	359246	12/31/24	01/02/25	MES	
Endrin ketone	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES	
4,4'-DDT	5.4	#,C	ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES	
Methoxychlor	ND		ug/Kg	10	3.8	1	359246	12/31/24	01/02/25	MES	
Toxaphene	ND		ug/Kg	100	87	1	359246	12/31/24	01/02/25	MES	
Chlordane (Technical)	ND		ug/Kg	50	39	1	359246	12/31/24	01/02/25	MES	
Surrogates				Limits							
TCMX	87%		%REC	23-120			1	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	100%		%REC	24-120			1	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-08-0.5	Lab ID: 523010-015	Collected: 12/24/24 08:20
Matrix: Soil		

523010-015 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	4.3		mg/Kg	0.97	0.37	0.97	358834	12/24/24	12/26/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	5.0	1.7	1	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	5.0	2.4	1	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	5.0	2.3	1	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	5.0	2.2	1	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	5.0	3.1	1	359246	12/31/24	01/02/25	MES
4,4'-DDE	16		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES
4,4'-DDD	5.1	#,C	ug/Kg	5.0	1.6	1	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	5.0	3.6	1	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES
4,4'-DDT	19	#	ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	10	3.8	1	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	100	87	1	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	ND		ug/Kg	50	39	1	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	80%		%REC	23-120		1	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	89%		%REC	24-120		1	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-09-0.5	Lab ID: 523010-017	Collected: 12/24/24 08:23
Matrix: Soil		

523010-017 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	4.5		mg/Kg	0.98	0.37	0.98	358834	12/24/24	12/26/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	5.0	1.7	1	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	5.0	2.4	1	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	5.0	2.3	1	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	5.0	2.2	1	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	5.0	3.1	1	359246	12/31/24	01/02/25	MES
4,4'-DDE	43		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES
4,4'-DDD	6.7	#,C	ug/Kg	5.0	1.6	1	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	5.0	3.6	1	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES
4,4'-DDT	38	#	ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	10	3.8	1	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	100	87	1	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	51		ug/Kg	50	30	1	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	81%		%REC	23-120		1	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	95%		%REC	24-120		1	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-10-0.5	Lab ID: 523010-019	Collected: 12/24/24 08:26
Matrix: Soil		

523010-019 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	3.8		mg/Kg	0.96	0.36	0.96	358834	12/24/24	12/26/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	5.0	1.7	0.99	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	5.0	2.4	0.99	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	5.0	1.9	0.99	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	5.0	2.3	0.99	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.1	0.99	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	5.0	2.2	0.99	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	5.0	3.0	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDE	3.2	C,J	ug/Kg	5.0	3.1	0.99	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDD	ND		ug/Kg	5.0	1.6	0.99	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	5.0	3.5	0.99	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
4,4'-DDT	ND		ug/Kg	5.0	2.0	0.99	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	9.9	3.8	0.99	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	99	86	0.99	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	ND		ug/Kg	50	38	0.99	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	81%		%REC	23-120		0.99	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	89%		%REC	24-120		0.99	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-11-0.5	Lab ID: 523010-021	Collected: 12/24/24 08:29
Matrix: Soil		

523010-021 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	4.1		mg/Kg	0.95	0.36	0.95	358834	12/24/24	12/26/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	5.0	1.7	1	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	5.0	2.4	1	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	5.0	1.9	1	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	5.0	2.3	1	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	5.0	2.2	1	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	5.0	3.1	1	359246	12/31/24	01/02/25	MES
4,4'-DDE	9.8		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	5.0	3.2	1	359246	12/31/24	01/02/25	MES
4,4'-DDD	ND		ug/Kg	5.0	1.6	1	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	5.0	3.6	1	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	5.0	2.1	1	359246	12/31/24	01/02/25	MES
4,4'-DDT	21	#,C	ug/Kg	5.0	2.0	1	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	10	3.8	1	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	100	87	1	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	410		ug/Kg	50	39	1	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	74%		%REC	23-120		1	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	81%		%REC	24-120		1	359246	12/31/24	01/02/25	MES

Analysis Results for 523010

Sample ID: MAG-12-0.5	Lab ID: 523010-023	Collected: 12/24/24 08:33
Matrix: Soil		

523010-023 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020										
Prep Method: EPA 3050B										
Arsenic	3.4		mg/Kg	1.0	0.38	1	358834	12/24/24	12/26/24	KAM
Method: EPA 8081A										
Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
beta-BHC	ND		ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
gamma-BHC	ND		ug/Kg	4.9	1.7	0.98	359246	12/31/24	01/02/25	MES
delta-BHC	ND		ug/Kg	4.9	2.3	0.98	359246	12/31/24	01/02/25	MES
Heptachlor	ND		ug/Kg	4.9	1.9	0.98	359246	12/31/24	01/02/25	MES
Aldrin	ND		ug/Kg	4.9	2.2	0.98	359246	12/31/24	01/02/25	MES
Heptachlor epoxide	ND		ug/Kg	4.9	2.1	0.98	359246	12/31/24	01/02/25	MES
Endosulfan I	ND		ug/Kg	4.9	2.2	0.98	359246	12/31/24	01/02/25	MES
Dieldrin	ND		ug/Kg	4.9	3.0	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDE	3.7	J	ug/Kg	4.9	3.1	0.98	359246	12/31/24	01/02/25	MES
Endrin	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Endosulfan II	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Endosulfan sulfate	ND		ug/Kg	4.9	3.1	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDD	ND		ug/Kg	4.9	1.5	0.98	359246	12/31/24	01/02/25	MES
Endrin aldehyde	ND		ug/Kg	4.9	3.5	0.98	359246	12/31/24	01/02/25	MES
Endrin ketone	ND		ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
4,4'-DDT	8.4	#,C	ug/Kg	4.9	2.0	0.98	359246	12/31/24	01/02/25	MES
Methoxychlor	ND		ug/Kg	9.8	3.7	0.98	359246	12/31/24	01/02/25	MES
Toxaphene	ND		ug/Kg	98	85	0.98	359246	12/31/24	01/02/25	MES
Chlordane (Technical)	ND		ug/Kg	49	38	0.98	359246	12/31/24	01/02/25	MES
Surrogates				Limits						
TCMX	92%		%REC	23-120		0.98	359246	12/31/24	01/02/25	MES
Decachlorobiphenyl	121%	*	%REC	24-120		0.98	359246	12/31/24	01/02/25	MES

CCV drift outside limits; average CCV drift within limits per method requirements
 * Value is outside QC limits
 C Presence confirmed, but RPD between columns exceeds 40%
 J Estimated value
 ND Not Detected

Batch QC

Type: Blank	Lab ID: QC1215315	Batch: 358832
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1215315 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.41	12/24/24	12/24/24

Type: Lab Control Sample	Lab ID: QC1215316	Batch: 358832
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1215316 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	99.59	100.0	mg/Kg	100%		80-120

Type: Matrix Spike	Lab ID: QC1215317	Batch: 358832
Matrix (Source ID): Soil (522944-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1215317 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	117.5	25.61	96.15	mg/Kg	96%		75-125	0.96

Type: Matrix Spike Duplicate	Lab ID: QC1215318	Batch: 358832
Matrix (Source ID): Soil (522944-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1215318 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	122.4	25.61	100.0	mg/Kg	97%		75-125	1	20	1

Type: Post Digest Spike	Lab ID: QC1215319	Batch: 358832
Matrix (Source ID): Soil (522944-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1215319 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	131.6	25.61	98.04	mg/Kg	108%		75-125	0.98

Type: Blank	Lab ID: QC1215324	Batch: 358834
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1215324 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.38	12/24/24	12/26/24

Type: Lab Control Sample	Lab ID: QC1215325	Batch: 358834
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1215325 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	95.30	100.0	mg/Kg	95%		80-120

Batch QC

Type: Matrix Spike	Lab ID: QC1215326	Batch: 358834
Matrix (Source ID): Soil (522941-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1215326 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	117.2	20.81	99.01	mg/Kg	97%		75-125	0.99

Type: Matrix Spike Duplicate	Lab ID: QC1215327	Batch: 358834
Matrix (Source ID): Soil (522941-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1215327 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	118.9	20.81	100.0	mg/Kg	98%		75-125	1	20	1

Type: Post Digest Spike	Lab ID: QC1215328	Batch: 358834
Matrix (Source ID): Soil (522941-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1215328 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	119.2	20.81	100.0	mg/Kg	98%		75-125	1

Type: Blank	Lab ID: QC1216746	Batch: 359246
Matrix: Soil	Method: EPA 8081A	Prep Method: EPA 3546

QC1216746 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
alpha-BHC	ND		ug/Kg	4.9	1.9	12/31/24	01/02/25
beta-BHC	ND		ug/Kg	4.9	1.9	12/31/24	01/02/25
gamma-BHC	ND		ug/Kg	4.9	1.7	12/31/24	01/02/25
delta-BHC	ND		ug/Kg	4.9	2.3	12/31/24	01/02/25
Heptachlor	ND		ug/Kg	4.9	1.9	12/31/24	01/02/25
Aldrin	ND		ug/Kg	4.9	2.2	12/31/24	01/02/25
Heptachlor epoxide	ND		ug/Kg	4.9	2.1	12/31/24	01/02/25
Endosulfan I	ND		ug/Kg	4.9	2.2	12/31/24	01/02/25
Dieldrin	ND		ug/Kg	4.9	3.0	12/31/24	01/02/25
4,4'-DDE	ND		ug/Kg	4.9	3.1	12/31/24	01/02/25
Endrin	ND		ug/Kg	4.9	2.0	12/31/24	01/02/25
Endosulfan II	ND		ug/Kg	4.9	2.0	12/31/24	01/02/25
Endosulfan sulfate	ND		ug/Kg	4.9	3.1	12/31/24	01/02/25
4,4'-DDD	ND		ug/Kg	4.9	1.5	12/31/24	01/02/25
Endrin aldehyde	ND		ug/Kg	4.9	3.5	12/31/24	01/02/25
Endrin ketone	ND		ug/Kg	4.9	2.0	12/31/24	01/02/25
4,4'-DDT	ND		ug/Kg	4.9	2.0	12/31/24	01/02/25
Methoxychlor	ND		ug/Kg	9.8	3.7	12/31/24	01/02/25
Toxaphene	ND		ug/Kg	98	85	12/31/24	01/02/25
Chlordane (Technical)	ND		ug/Kg	49	38	12/31/24	01/02/25
Surrogates				Limits			
TCMX	86%		%REC	23-120		12/31/24	01/02/25
Decachlorobiphenyl	100%		%REC	24-120		12/31/24	01/02/25

Batch QC

Type: Lab Control Sample	Lab ID: QC1216747	Batch: 359246
Matrix: Soil	Method: EPA 8081A	Prep Method: EPA 3546

QC1216747 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	47.56	49.02	ug/Kg	97%		22-129
beta-BHC	54.56	49.02	ug/Kg	111%		28-125
gamma-BHC	49.26	49.02	ug/Kg	100%		22-128
delta-BHC	49.79	49.02	ug/Kg	102%		24-131
Heptachlor	46.53	49.02	ug/Kg	95%		18-124
Aldrin	43.31	49.02	ug/Kg	88%		23-120
Heptachlor epoxide	46.07	49.02	ug/Kg	94%		26-120
Endosulfan I	51.69	49.02	ug/Kg	105%		25-126
Dieldrin	50.73	49.02	ug/Kg	103%		23-124
4,4'-DDE	54.12	49.02	ug/Kg	110%		28-121
Endrin	54.34	49.02	ug/Kg	111%		25-127
Endosulfan II	54.68	49.02	ug/Kg	112%		29-121
Endosulfan sulfate	50.01	49.02	ug/Kg	102%		30-121
4,4'-DDD	55.87	49.02	ug/Kg	114%		26-120
Endrin aldehyde	38.44	49.02	ug/Kg	78%		10-120
Endrin ketone	56.54	49.02	ug/Kg	115%		28-125
4,4'-DDT	57.71	49.02	ug/Kg	118%		22-125
Methoxychlor	62.22	49.02	ug/Kg	127%		28-130
Surrogates						
TCMX	42.72	49.02	ug/Kg	87%		23-120
Decachlorobiphenyl	47.52	49.02	ug/Kg	97%		24-120

Batch QC

Type: Matrix Spike	Lab ID: QC1216748	Batch: 359246
Matrix (Source ID): Soil (523010-001)	Method: EPA 8081A	Prep Method: EPA 3546

QC1216748 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	37.21	ND	49.02	ug/Kg	76%		46-120	0.98
beta-BHC	42.33	2.129	49.02	ug/Kg	82%		41-120	0.98
gamma-BHC	38.31	ND	49.02	ug/Kg	78%		41-120	0.98
delta-BHC	37.40	ND	49.02	ug/Kg	76%		38-123	0.98
Heptachlor	36.10	ND	49.02	ug/Kg	74%		39-120	0.98
Aldrin	38.09	ND	49.02	ug/Kg	71%		34-120	0.98
Heptachlor epoxide	35.04	ND	49.02	ug/Kg	71%		43-120	0.98
Endosulfan I	38.42	ND	49.02	ug/Kg	78%		45-120	0.98
Dieldrin	38.78	ND	49.02	ug/Kg	79%		45-120	0.98
4,4'-DDE	41.76	ND	49.02	ug/Kg	85%		34-120	0.98
Endrin	38.49	ND	49.02	ug/Kg	79%		40-120	0.98
Endosulfan II	38.28	ND	49.02	ug/Kg	78%		41-120	0.98
Endosulfan sulfate	29.32	ND	49.02	ug/Kg	60%		42-120	0.98
4,4'-DDD	39.90	ND	49.02	ug/Kg	81%		41-120	0.98
Endrin aldehyde	22.92	ND	49.02	ug/Kg	47%		30-120	0.98
Endrin ketone	39.04	ND	49.02	ug/Kg	80%		45-120	0.98
4,4'-DDT	38.92	3.014	49.02	ug/Kg	73%		35-127	0.98
Methoxychlor	29.66	ND	49.02	ug/Kg	60%		42-136	0.98
Surrogates								
TCMX	34.39		49.02	ug/Kg	70%		23-120	0.98
Decachlorobiphenyl	30.73		49.02	ug/Kg	63%		24-120	0.98

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC1216749	Batch: 359246
Matrix (Source ID): Soil (523010-001)	Method: EPA 8081A	Prep Method: EPA 3546

QC1216749 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	42.97	ND	49.02	ug/Kg	88%		46-120	14	30	0.98
beta-BHC	47.89	2.129	49.02	ug/Kg	93%		41-120	12	30	0.98
gamma-BHC	44.13	ND	49.02	ug/Kg	90%		41-120	14	30	0.98
delta-BHC	43.46	ND	49.02	ug/Kg	89%		38-123	15	30	0.98
Heptachlor	41.74	ND	49.02	ug/Kg	85%		39-120	14	30	0.98
Aldrin	44.05	ND	49.02	ug/Kg	83%		34-120	14	30	0.98
Heptachlor epoxide	40.38	ND	49.02	ug/Kg	82%		43-120	14	30	0.98
Endosulfan I	43.48	ND	49.02	ug/Kg	89%		45-120	12	30	0.98
Dieldrin	45.40	ND	49.02	ug/Kg	93%		45-120	16	30	0.98
4,4'-DDE	48.63	ND	49.02	ug/Kg	99%		34-120	15	30	0.98
Endrin	46.87	ND	49.02	ug/Kg	96%		40-120	20	30	0.98
Endosulfan II	46.56	ND	49.02	ug/Kg	95%		41-120	20	30	0.98
Endosulfan sulfate	38.85	ND	49.02	ug/Kg	79%		42-120	28	30	0.98
4,4'-DDD	48.50	ND	49.02	ug/Kg	99%		41-120	19	30	0.98
Endrin aldehyde	31.97	ND	49.02	ug/Kg	65%		30-120	33*	30	0.98
Endrin ketone	47.11	ND	49.02	ug/Kg	96%		45-120	19	30	0.98
4,4'-DDT	48.43	3.014	49.02	ug/Kg	93%		35-127	22	30	0.98
Methoxychlor	45.86	ND	49.02	ug/Kg	94%		42-136	43*	30	0.98
Surrogates										
TCMX	38.63		49.02	ug/Kg	79%		23-120			0.98
Decachlorobiphenyl	38.52		49.02	ug/Kg	79%		24-120			0.98

* Value is outside QC limits

ND Not Detected