

**PHASE II ENVIRONMENTAL  
SCREENING CHARACTERIZATION  
(PESTICIDES, HERBICIDES, AND HEAVY METALS)  
LOT 39 OF TRACT 7240, ±10.01-ACRE SITE, APN 290-190-083  
PROPOSED GLEN IVY SENIOR COMMUNITY  
AND RETAIL/COMMERCIAL PROJECT, TEMESCAL VALLEY AREA  
RIVERSIDE COUNTY, CALIFORNIA 92883  
CUP200011: PHASE I REVIEW**

**GeoSoils, Inc.**  
FOR

**GLEN IVY PROPERTIES, LLC  
34145 PACIFIC COAST HWY #621  
DANA POINT, CALIFORNIA 92629**

**W.O. E7731.1-SC**

**NOVEMBER 15, 2021**



**Geotechnical • Geologic • Coastal • Environmental**

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November 15, 2021

W.O. E7731.1-SC

**Glen Ivy Properties, LLC**

34145 Pacific Coast Hwy #621  
Dana Point, California 92629

Attention: Mr. Benjamin Day

Subject: Phase II Environmental Screening Characterization (Pesticides, Herbicides, and Heavy Metals), Lot 39 of Tract 7240,  $\pm 10.01$ -Acre Site, APN 290-190-083, Proposed Glen Ivy Senior Community and Retail/Commercial Project, Temescal Valley Area, Riverside County, California 92883, CUP200011: Phase I Review

Dear Mr. Day:

In accordance with your request and authorization, GeoSoils, Inc. (GSI) is pleased to present the results of our Phase II environmental screening characterization for Lot 39 of Tract 7240 (Glen Ivy Senior Community and Retail/Commercial project), in the Temescal Valley area of Riverside County, California. The purpose of this Phase II environmental screening characterization is to satisfy and address recent and updated review comments by the Riverside County Department of Environmental Health (RCDEH, 2021), and provide onsite soils testing for pesticides, herbicides and heavy metal contamination of the undocumented fill materials, to the extent practical, identified within our referenced soil management plan and Phase I ESA and for the project (GSI, 2021 and 2020, respectively).

**SITE LOCATION AND BACKGROUND**

The subject property is located on the southwest corner of the intersection of Temescal Canyon Road and Trilogy Parkway in the unincorporated area of Temescal Valley, Riverside County, California. The property (APN 290-190-083) consists of an irregularly-shaped parcel, totaling approximately  $\pm 10.01$  acres. With the exception of recent flood control improvements (perimeter grubbing and fence line) and localized landscape improvements on the southern margin and northern portion of the property, respectively, the site is generally vacant and undeveloped.

As indicated in the recent email correspondence by the RCDEH (2021), and as described in our previous soil management plan and Phase I ESA for the project (GSI, 2021 and 2020, respectively), undocumented artificial fill from an unknown origin is present in the

northeast portion of the site. It is not unreasonable to expect that the fill soils may have contained agricultural pesticides, herbicides, and/or products containing heavy metals, considering the widespread historic use of these agricultural products throughout California. Although a majority of currently banned (i.e., restricted) pesticides have not been used for at least 20 years, there remains a potential for the undocumented artificial fill onsite to contain these chemicals or metals. The purpose of the limited environmental Phase II evaluation is to respond to the RCDEH comments received, and provide limited screening test data regarding soils containing pesticides, herbicides, and/or metals (if detected) that may be present within the undocumented artificial fill on the property, prior to site grading activities.

### **ENVIRONMENTAL TESTING**

As discussed above, GSI conducted environmental testing to evaluate the undocumented artificial fill onsite for pesticides, herbicide, and heavy metal contamination, to the extent practical. On October 22, 2021, GSI collected eight (8) representative soil samples onsite, at varying depths. The approximate locations of the samples obtained are provided on Figure 1 (Sample Location Map).

The soil sampling and analytical laboratory testing for this study was conducted in general accordance with the California Department of Toxic Substances Control (DTSC, 2013), and the DTSC (2001) information advisory - clean imported fill material. The sampling equipment was cleaned, prior to, and after each sampling event following appropriate protocol to minimize the likelihood of cross-contamination and to minimize the potential for false positives in the soil samples analyzed. Soil samples were collected at selected locations and depths, logged and placed in glass jars, labeled, and kept in a refrigerated environment pending delivery to the laboratory. Subsequent to completed field work, the soil samples were immediately delivered to the Eurofins/Calscience laboratory in Garden Grove to be analyzed for Organochlorine Pesticides (OCPs) utilizing EPA Test Method 8081A, Organophosphorous Pesticides (OPPs) utilizing EPA Test Method 8141A, Chlorinated Herbicides utilizing EPA Test Method 8151A, and Title 22/CAM 17 metals utilizing EPA Test Methods 6010B and 7471A, under proper chain-of-custody protocol.

It should be noted that there was no visual or olfactory evidence of odors and/or soil staining within any of the soils materials during our October 22, 2021 sampling event. The pertinent findings from the environmental soils sampling event conducted, are provided below:

### **ANALYTICAL TESTING RESULTS**

1. Soil sampling and analytical testing of the soil samples collected from the undocumented artificial fill onsite, revealed that concentrations of Organochlorine





**GSI LEGEND**

- - - - - Approximate Boundary of property Under the Purview of this Report.
- ⊕ Approximate Location of Hand-Auger Boring Sample Location.



**ALL LOCATIONS ARE APPROXIMATE**

*This document or e-file is not part of the Construction Documents and should not be relied upon as being an accurate depiction of design.*

**Base Map: Google Earth Pro, 2021**



Figure 1

**SAMPLE LOCATION MAP**

W.O. E7731.1-SC	DATE: 11/21	SCALE: See Bar Scale
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Pesticides (OCPs) were detected above the laboratory reporting limits in only one (1) of the eight (8) samples analyzed onsite. The OCP test results concentrations obtained in the one (1) sample for Dieldrin (HA-1 @ 2') are well below the California Regional Water Quality Control Board (RWQCB) summary of soil Environmental Screening Levels (ESLs, 2019a) for residential shallow soil exposure and commercial/industrial shallow soil exposure (i.e, minimum direct exposure risk level of 3.5 mg/kg for Dieldrin [residential - non-cancer hazard], and 48 mg/kg for Dieldrin [commercial - non-cancer hazard], respectively).

2. Analytical testing of the soil screening samples indicated that concentrations of Organophosphorous Pesticides (OPPs) were not-detected at the laboratory reporting limits (i.e., were non-detect).
3. Analytical testing of the soil screening samples indicated that concentrations of Chlorinated Herbicides were not-detected at the laboratory reporting limits (i.e., were non-detect).
4. Many of the CA Title - 22 CAM 17 metals were detected at concentrations above the laboratory reporting limits; however, were below the summary ESLs (2019a) for residential and commercial/industrial soils, with the exception of Arsenic in one (1) sample (HA-6 @ ½') and Vanadium in all eight (8) samples obtained.

Arsenic was detected at concentrations above the summary of soil ESLs (2019a), threshold value of 0.26 mg/kg for residential soil exposure (non-cancer hazard) and below the threshold value of 3.6 mg/kg for commercial/industrial soils (non-cancer hazard), with a maximum concentration of 3.03 mg/kg in sample HA-6 @ ½'. However, Arsenic is a naturally occurring earth metal and when compared with background concentrations of Arsenic in regional soils in Los Angeles County, an upper-bound concentration of 12 mg/kg for Arsenic was determined (Chernoff, et al., 2008). Therefore, Arsenic is below regional background levels of 12.0 mg/kg.

Vanadium occurs naturally in about 65 mineral compounds, and is typically used in industry during smelting. It is present in the Earth's crust at a concentration of about 150 mg/kg. Vanadium was encountered with maximum concentrations of 70.4 mg/kg in sample HA-6 @ ½', and 61.1 mg/kg in sample HA-7 @ 1'. It is well under the soil ESL of 390 mg/kg (residential), and construction worker health hazard risk for any land use/soil depth ESL of 470 mg/kg. Smelting using Vanadium is not known in the immediate region. The Vanadium is, therefore, most likely naturally occurring and reflects background soil levels. The laboratory analytical reports for all samples collected are provided in Appendix B.

## **CONCLUSIONS AND RECOMMENDATIONS**

### **Conclusions**

Based upon the information obtained during the course of this screening characterization study, GSI presents the following summary of findings and conclusions:

1. Concentrations of Organochlorine Pesticides (OCPs) were detected above the laboratory reporting limits in only one (1) of the eight (8) samples analyzed onsite. However, the OCP test results concentrations are well below the California Regional Water Quality Control Board (RWQCB) summary of soil Environmental Screening Levels (ESLs, 2019a). Therefore, based on the above, OCPs are not considered a recognized environmental condition (REC).
2. Concentrations of Organophosphorous Pesticides (OPPs) were non-detect at the laboratory reporting limits (i.e., were non-detect). Therefore, based on the above, OPPs are not considered a recognized environmental condition (REC).
3. Concentrations of Chlorinated Herbicides were non-detect at the laboratory reporting limits (i.e., were non-detect). Therefore, based on the above, Chlorinated Herbicides are not considered a recognized environmental condition (REC).
4. Many of the CA Title - 22 CAM 17 metals were detected at concentrations above laboratory reporting limits; however, were below the ESLs (2019a) for residential soils, with the exception of Arsenic and Vanadium. Arsenic is below regional background levels of 12.0 mg/kg (Chernoff, et al., 2008) and Vanadium was well under the ESL of 390 mg/kg (residential), and construction worker health hazard risk for any land use/soil depth ESL of 470 mg/kg. The Arsenic and Vanadium detected is most likely due to natural regional background levels. Therefore, based on the above, CA Title 22 metals concentration onsite are not considered REC's.
5. Based on our observations and the environmental sampling conducted within Lot 39 of Tract 7240 (CUP200011), the laboratory analytical testing conducted for this study, and our analysis, the undocumented artificial fill materials onsite appear suitable for residential and commercial use applications from an environmental viewpoint.

### **Recommendations**

- Additional soil screening of the deeper undocumented artificial fill materials should be performed during site grading activities, for evidence of staining and odors, in accordance with our referenced soil management plan (GSI, 2021).

- Based upon the information collected by GSI during this screening characterization study, further studies or action, other than the above, are not recommended from an environmental viewpoint, at this time.

### **LIMITATIONS AND EXCEPTIONS**

This screening characterization study does not include any of the following:

- Geotechnical evaluation of the site (provided under separate cover);
- Phase I Environmental Site Assessment (provided under separate cover);
- Water sampling and analyses;
- Consideration of possible future contamination of the property from adjacent or surrounding facilities or properties; and,
- Radon gas, mold, methane, electromagnetic, sludge, or biologic evaluation(s).

### **Special Terms and Conditions**

This report is intended for the use of the Client (Glen Ivy Properties, LLC). This report is based upon field conditions observed during our environmental soil sampling event conducted on October 22, 2021. Site conditions may change from time to time, in response to natural and human-made conditions. The contents should not be relied upon by any party other than the aforementioned without the express written consent of GSI. This report does not consider possible future contamination of the site from adjacent or surrounding facilities or properties and/or additional unauthorized spills and/or leaks. All judgments apply only to conditions observed by GSI during the environmental soil testing performed in preparation of this report.

## **LIMITATIONS**

GSI has performed the services for this project in accordance with the terms of a contract between GSI and Client and in accordance with current professional standards for investigations of this type. The conclusions presented in this report are based on the information collected during the study, the present understanding of the site conditions, and professional judgment. The interpretations and recommendations of GSI are based solely on such information, and/or information supplied by Client. Findings of this limited study, based on data provided by others, carries no warranty, express or implied, as a result of the usage of such data.

It is possible that future investigations may reveal additional conditions or variations of the current data which may require the current conclusions and recommendations to be reevaluated. As a result, GSI makes no warranty, either express or implied, as to its findings, opinions, recommendations, specifications, or professional advice except that they were promulgated after being prepared in accordance with generally accepted standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. The information in this report is relevant to the date of the site work and should not be relied on to represent conditions at any later date. Facts, conditions, and acceptable risk factors change with time, accordingly, this report should be viewed within this context.



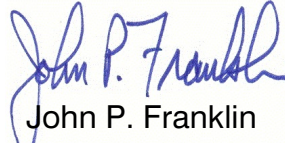
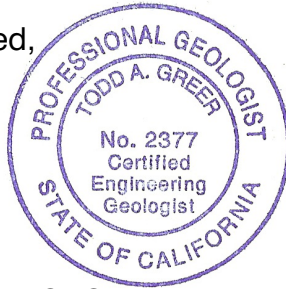
We appreciate the opportunity to be of service to you. If you have any questions pertaining to this report or any other matter, please do not hesitate to call us at (951) 471-0700.

Respectfully submitted,

**GeoSoils, Inc.**



Todd A. Greer  
Engineering Geologist, CEG 2377



John P. Franklin  
Registered Environmental Property  
Assessor, NREP 461992, CEG 1340



TAG/JPF/sh

Attachments:       Appendix A - References  
                          Appendix B - Laboratory Analytical Results

Distribution:       (1) Addressee (via email PDF)

**APPENDIX A**  
**REFERENCES**

## APPENDIX A

### REFERENCES

Bradford, G.R., Change, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and Wright, H., 1996, Background concentrations of trace and major elements in California soils, in Kearney Foundation special report, dated March.

California Department of Toxic Substances Control (DTSC), 2020 Human Health Risk Assessment (HHRA), Note Number 11, Southern California Ambient Arsenic Screening Level, dated December.

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\_\_\_\_\_, 2001, Information advisory - clean imported fill material, dated October.

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Chernoff, G., Bosan, W., and Oudiz, D., 2008, Determination of Southern California regional background Arsenic concentration in soil, California Department of Toxic Substances Control, Society of Toxicology, dated March.

GeoSoils, Inc. 2021, Soil management plan and response to Riverside County Department of Environmental Health Comments, Lot 39 of Tract 7240, ±10.01-acre site, APN 290-190-083, proposed Glen Ivy Senior Community and Retail/Commercial project, Temescal Valley area, Riverside County, California 92883, CUP200011: Phase I Review, W.O. E7731-SC, dated September 8.

\_\_\_\_\_, 2020, Phase I Environmental Site Assessment, Lot 39 of Tract 7240, ±10.01-Acre Site (APN 290-190-083), Proposed Glen Ivy Senior Community and Retail/Commercial Project, Temescal Valley Area, Riverside County, California 92883, W.O. E7731-SC, dated December 18.

Riverside County Department of Environmental Health (RCDEH), 2021, RE: CUP200011 Phase I Review, email correspondence dated September 22.



**APPENDIX B**

**LABORATORY ANALYTICAL RESULTS**

## ANALYTICAL REPORT

Eurofins Calscience LLC  
7440 Lincoln Way  
Garden Grove, CA 92841  
Tel: (714)895-5494

Laboratory Job ID: 570-73610-1  
Client Project/Site: Glen Ivy Properties

For:  
GeoSoils, Inc  
18451 Collier Avenue, Suite A  
Lake Elsinore, California 92530

Attn: Todd Greer



Authorized for release by:  
11/9/2021 2:54:30 PM

Terri Chang, Project Manager I  
(714)895-5494  
[Terri.Chang@eurofinset.com](mailto:Terri.Chang@eurofinset.com)

### LINKS

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

**Job ID: 570-73610-1**

**Laboratory: Eurofins Calscience LLC**

## Narrative

### Job Narrative 570-73610-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/22/2021 3:49 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

#### GC Semi VOA

Method 8141A: The continuing calibration verification (CCV) associated with batch 570-190821 recovered above the upper control limit for Dichlorvos and Merphos. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (MB 570-189184/1-A).

Method 8141A: The CCV for preparation batch 570-189184 and analytical batch 570-190821 recovered outside control limits for the following analyte(s): Naled. Naled has been identified as a poor performing analyte when analyzed using this method. Additionally, Naled is known to convert via debromination during analysis due to active sites on the chromatographic column into Dichlorvos; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8141A: The continuing calibration verification (CCV) associated with batch 570-190821 recovered above the upper control limit for Merphos. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: HA-5 @ 2' (570-73610-5) and HA-6 @ 1/2' (570-73610-6).

Method 8141A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-189184 and analytical batch 570-190821 was outside control limits. Sample matrix interference is suspected.

Method 8141A: Surrogate recovery for the following sample was outside the upper control limit: HA-4 @ 1' (570-73610-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method 6010B: The absolute response for Arsenic was greater than the method reporting limit (RL) in the following sample: HA-2 @ 1/2' (570-73610-2).

The instrument raw data has been manually reviewed and the result can be reported as ND.

Method 6010B: The absolute response for Selenium was greater than the method reporting limit (RL) in the following sample: HA-6 @ 1/2' (570-73610-6).

The instrument raw data has been manually reviewed and the result can be reported as ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Client Sample ID: HA-1 @ 2'

## Lab Sample ID: 570-73610-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin - DL	0.15		0.050	mg/Kg	10		8081A	Total/NA
Barium	111		0.508	mg/Kg	1		6010B	Total/NA
Beryllium	1.10		0.254	mg/Kg	1		6010B	Total/NA
Cadmium	1.64		0.508	mg/Kg	1		6010B	Total/NA
Chromium	24.0		1.02	mg/Kg	1		6010B	Total/NA
Cobalt	8.27		1.02	mg/Kg	1		6010B	Total/NA
Copper	25.5		1.02	mg/Kg	1		6010B	Total/NA
Lead	5.38		5.08	mg/Kg	1		6010B	Total/NA
Molybdenum	3.15		0.508	mg/Kg	1		6010B	Total/NA
Nickel	15.2		0.508	mg/Kg	1		6010B	Total/NA
Vanadium	59.2		1.02	mg/Kg	1		6010B	Total/NA
Zinc	73.2		10.2	mg/Kg	1		6010B	Total/NA

## Client Sample ID: HA-2 @ 1/2'

## Lab Sample ID: 570-73610-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	133		0.503	mg/Kg	1		6010B	Total/NA
Beryllium	1.25		0.251	mg/Kg	1		6010B	Total/NA
Cadmium	1.73		0.503	mg/Kg	1		6010B	Total/NA
Chromium	25.0		1.01	mg/Kg	1		6010B	Total/NA
Cobalt	8.65		1.01	mg/Kg	1		6010B	Total/NA
Copper	37.1		1.01	mg/Kg	1		6010B	Total/NA
Lead	8.89		5.03	mg/Kg	1		6010B	Total/NA
Molybdenum	1.03		0.503	mg/Kg	1		6010B	Total/NA
Nickel	20.6		0.503	mg/Kg	1		6010B	Total/NA
Vanadium	53.4		1.01	mg/Kg	1		6010B	Total/NA
Zinc	99.3		10.1	mg/Kg	1		6010B	Total/NA

## Client Sample ID: HA-3 @ 1'

## Lab Sample ID: 570-73610-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	127		0.481	mg/Kg	1		6010B	Total/NA
Beryllium	0.800		0.240	mg/Kg	1		6010B	Total/NA
Cadmium	0.618		0.481	mg/Kg	1		6010B	Total/NA
Chromium	10.3		0.962	mg/Kg	1		6010B	Total/NA
Cobalt	3.93		0.962	mg/Kg	1		6010B	Total/NA
Copper	10.1		0.962	mg/Kg	1		6010B	Total/NA
Nickel	6.99		0.481	mg/Kg	1		6010B	Total/NA
Vanadium	24.1		0.962	mg/Kg	1		6010B	Total/NA
Zinc	32.6		9.62	mg/Kg	1		6010B	Total/NA

## Client Sample ID: HA-4 @ 1'

## Lab Sample ID: 570-73610-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	68.3		0.526	mg/Kg	1		6010B	Total/NA
Beryllium	0.417		0.263	mg/Kg	1		6010B	Total/NA
Cadmium	0.671		0.526	mg/Kg	1		6010B	Total/NA
Chromium	5.89		1.05	mg/Kg	1		6010B	Total/NA
Cobalt	3.60		1.05	mg/Kg	1		6010B	Total/NA
Copper	5.54		1.05	mg/Kg	1		6010B	Total/NA
Lead	8.96		5.26	mg/Kg	1		6010B	Total/NA
Nickel	3.18		0.526	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Detection Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Client Sample ID: HA-4 @ 1' (Continued)

Lab Sample ID: 570-73610-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	23.9		1.05	mg/Kg	1		6010B	Total/NA
Zinc	27.2		10.5	mg/Kg	1		6010B	Total/NA

## Client Sample ID: HA-5 @ 2'

Lab Sample ID: 570-73610-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	107		0.503	mg/Kg	1		6010B	Total/NA
Beryllium	0.915		0.251	mg/Kg	1		6010B	Total/NA
Cadmium	0.925		0.503	mg/Kg	1		6010B	Total/NA
Chromium	16.0		1.01	mg/Kg	1		6010B	Total/NA
Cobalt	5.15		1.01	mg/Kg	1		6010B	Total/NA
Copper	15.1		1.01	mg/Kg	1		6010B	Total/NA
Nickel	10.5		0.503	mg/Kg	1		6010B	Total/NA
Vanadium	33.0		1.01	mg/Kg	1		6010B	Total/NA
Zinc	48.9		10.1	mg/Kg	1		6010B	Total/NA
Mercury	0.0942		0.0833	mg/Kg	1		7471A	Total/NA

## Client Sample ID: HA-6 @ 1/2'

Lab Sample ID: 570-73610-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.03		2.40	mg/Kg	1		6010B	Total/NA
Barium	68.1		0.481	mg/Kg	1		6010B	Total/NA
Beryllium	1.18		0.240	mg/Kg	1		6010B	Total/NA
Cadmium	1.87		0.481	mg/Kg	1		6010B	Total/NA
Chromium	25.6		0.962	mg/Kg	1		6010B	Total/NA
Cobalt	7.93		0.962	mg/Kg	1		6010B	Total/NA
Copper	20.5		0.962	mg/Kg	1		6010B	Total/NA
Nickel	12.5		0.481	mg/Kg	1		6010B	Total/NA
Vanadium	70.4		0.962	mg/Kg	1		6010B	Total/NA
Zinc	80.6		9.62	mg/Kg	1		6010B	Total/NA

## Client Sample ID: HA-7 @ 1'

Lab Sample ID: 570-73610-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	56.7		0.483	mg/Kg	1		6010B	Total/NA
Beryllium	0.966		0.242	mg/Kg	1		6010B	Total/NA
Cadmium	1.47		0.483	mg/Kg	1		6010B	Total/NA
Chromium	22.4		0.966	mg/Kg	1		6010B	Total/NA
Cobalt	7.00		0.966	mg/Kg	1		6010B	Total/NA
Copper	17.9		0.966	mg/Kg	1		6010B	Total/NA
Molybdenum	1.74		0.483	mg/Kg	1		6010B	Total/NA
Nickel	10.1		0.483	mg/Kg	1		6010B	Total/NA
Vanadium	61.1		0.966	mg/Kg	1		6010B	Total/NA
Zinc	65.9		9.66	mg/Kg	1		6010B	Total/NA

## Client Sample ID: HA-8 @ 1/2'

Lab Sample ID: 570-73610-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Barium	60.9		0.524	mg/Kg	1		6010B	Total/NA
Beryllium	0.920		0.262	mg/Kg	1		6010B	Total/NA
Cadmium	1.31		0.524	mg/Kg	1		6010B	Total/NA
Chromium	22.0		1.05	mg/Kg	1		6010B	Total/NA
Cobalt	6.89		1.05	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

**Client Sample ID: HA-8 @ 1/2' (Continued)**

**Lab Sample ID: 570-73610-8**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Copper	16.7		1.05	mg/Kg	1		6010B	Total/NA
Nickel	9.08		0.524	mg/Kg	1		6010B	Total/NA
Vanadium	58.5		1.05	mg/Kg	1		6010B	Total/NA
Zinc	66.4		10.5	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: HA-1 @ 2'**  
**Date Collected: 10/22/21 09:45**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
4,4'-DDE	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
4,4'-DDT	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Aldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
alpha-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
alpha-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
beta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
delta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Endosulfan I	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Endosulfan II	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Endosulfan sulfate	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Endrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Endrin aldehyde	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Endrin ketone	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
gamma-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
gamma-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Heptachlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Heptachlor epoxide	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Methoxychlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 11:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	64		38 - 148			10/25/21 11:23	10/27/21 11:36	1
DCB Decachlorobiphenyl (Surr)	66		37 - 151			10/25/21 11:23	10/27/21 11:36	1

**Client Sample ID: HA-2 @ 1/2'**  
**Date Collected: 10/22/21 10:02**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
4,4'-DDE	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
4,4'-DDT	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Aldrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
alpha-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
alpha-Chlordane	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
beta-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
delta-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Dieldrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Endosulfan I	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Endosulfan II	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Endosulfan sulfate	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Endrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Endrin aldehyde	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Endrin ketone	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
gamma-Chlordane	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
gamma-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Heptachlor	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Heptachlor epoxide	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: HA-2 @ 1/2'**  
**Date Collected: 10/22/21 10:02**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	67		38 - 148			10/25/21 11:23	10/27/21 19:00	1
<i>DCB Decachlorobiphenyl (Surr)</i>	68		37 - 151			10/25/21 11:23	10/27/21 19:00	1

**Client Sample ID: HA-3 @ 1'**  
**Date Collected: 10/22/21 10:14**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
4,4'-DDE	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
4,4'-DDT	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Aldrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
alpha-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
alpha-Chlordane	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
beta-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
delta-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Dieldrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Endosulfan I	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Endosulfan II	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Endosulfan sulfate	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Endrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Endrin aldehyde	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Endrin ketone	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
gamma-Chlordane	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
gamma-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Heptachlor	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Heptachlor epoxide	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Methoxychlor	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	72		38 - 148			10/25/21 11:23	10/27/21 19:14	1
<i>DCB Decachlorobiphenyl (Surr)</i>	73		37 - 151			10/25/21 11:23	10/27/21 19:14	1

**Client Sample ID: HA-4 @ 1'**  
**Date Collected: 10/22/21 10:26**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
4,4'-DDE	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
4,4'-DDT	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Aldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
alpha-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
alpha-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
beta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 19:28	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: HA-4 @ 1'**  
**Date Collected: 10/22/21 10:26**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Dieldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Endosulfan I	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Endosulfan II	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Endosulfan sulfate	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Endrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Endrin aldehyde	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Endrin ketone	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
gamma-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
gamma-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Heptachlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Heptachlor epoxide	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Methoxychlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 19:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	77		38 - 148			10/25/21 11:23	10/27/21 19:28	1
DCB Decachlorobiphenyl (Surr)	77		37 - 151			10/25/21 11:23	10/27/21 19:28	1

**Client Sample ID: HA-5 @ 2'**  
**Date Collected: 10/22/21 10:50**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
4,4'-DDE	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
4,4'-DDT	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Aldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
alpha-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
alpha-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
beta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
delta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Dieldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Endosulfan I	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Endosulfan II	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Endosulfan sulfate	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Endrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Endrin aldehyde	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Endrin ketone	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
gamma-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
gamma-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Heptachlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Heptachlor epoxide	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Methoxychlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	70		38 - 148			10/25/21 11:23	10/27/21 14:28	1
DCB Decachlorobiphenyl (Surr)	106		37 - 151			10/25/21 11:23	10/27/21 14:28	1

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: HA-6 @ 1/2'**  
**Date Collected: 10/22/21 11:01**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
4,4'-DDE	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
4,4'-DDT	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Aldrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
alpha-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
alpha-Chlordane	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
beta-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
delta-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Dieldrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Endosulfan I	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Endosulfan II	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Endosulfan sulfate	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Endrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Endrin aldehyde	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Endrin ketone	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
gamma-Chlordane	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
gamma-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Heptachlor	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Heptachlor epoxide	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Methoxychlor	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 14:13	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	64		38 - 148	10/25/21 11:23	10/27/21 14:13	1
<i>DCB Decachlorobiphenyl (Surr)</i>	61		37 - 151	10/25/21 11:23	10/27/21 14:13	1

**Client Sample ID: HA-7 @ 1'**  
**Date Collected: 10/22/21 11:12**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
4,4'-DDE	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
4,4'-DDT	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Aldrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
alpha-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
alpha-Chlordane	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
beta-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
delta-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Dieldrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Endosulfan I	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Endosulfan II	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Endosulfan sulfate	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Endrin	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Endrin aldehyde	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Endrin ketone	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
gamma-Chlordane	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
gamma-BHC	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Heptachlor	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: HA-7 @ 1'**  
**Date Collected: 10/22/21 11:12**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Methoxychlor	ND		0.0049	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	68		38 - 148			10/25/21 11:23	10/27/21 17:46	1
<i>DCB Decachlorobiphenyl (Surr)</i>	72		37 - 151			10/25/21 11:23	10/27/21 17:46	1

**Client Sample ID: HA-8 @ 1/2'**  
**Date Collected: 10/22/21 11:21**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
4,4'-DDE	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
4,4'-DDT	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Aldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
alpha-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
alpha-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
beta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
delta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Dieldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Endosulfan I	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Endosulfan II	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Endosulfan sulfate	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Endrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Endrin aldehyde	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Endrin ketone	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
gamma-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
gamma-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Heptachlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Heptachlor epoxide	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Methoxychlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 11:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	70		38 - 148			10/25/21 11:23	10/27/21 11:50	1
<i>DCB Decachlorobiphenyl (Surr)</i>	68		37 - 151			10/25/21 11:23	10/27/21 11:50	1



# Client Sample Results

Client: GeoSoils, Inc  
 Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC) - DL

**Client Sample ID: HA-1 @ 2'**  
**Date Collected: 10/22/21 09:45**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.15		0.050	mg/Kg		10/25/21 11:23	10/28/21 09:15	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		38 - 148			10/25/21 11:23	10/28/21 09:15	10
DCB Decachlorobiphenyl (Surr)	86		37 - 151			10/25/21 11:23	10/28/21 09:15	10

- 1
- 2
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- 14
- 15

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8141A - Organophosphorous Pesticides (GC)

**Client Sample ID: HA-1 @ 2'**  
**Date Collected: 10/22/21 09:45**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Bolstar	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Chlorpyrifos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Coumaphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Demeton-o/s	ND		0.98	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Diazinon	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Dichlorvos	ND	F2	0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Disulfoton	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Ethoprop	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Fensulfothion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Fenthion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Merphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Methyl parathion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Mevinphos	ND	F2	0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Naled	ND	F2	3.9	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Phorate	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Ronnel	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Stirophos	ND		2.0	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Tokuthion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1
Trichloronate	ND	F2	0.49	mg/Kg		10/25/21 17:25	11/02/21 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributylphosphate	95		20 - 158	10/25/21 17:25	11/02/21 16:20	1

**Client Sample ID: HA-2 @ 1/2'**  
**Date Collected: 10/22/21 10:02**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Bolstar	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Chlorpyrifos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Coumaphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Demeton-o/s	ND		0.99	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Diazinon	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Dichlorvos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Disulfoton	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Ethoprop	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Fensulfothion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Fenthion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Merphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Methyl parathion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Mevinphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Naled	ND		3.9	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Phorate	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Ronnel	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Stirophos	ND		2.0	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Tokuthion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1
Trichloronate	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 09:59	1

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributylphosphate	131		20 - 158	10/25/21 17:25	11/02/21 09:59	1

**Client Sample ID: HA-3 @ 1'**  
**Date Collected: 10/22/21 10:14**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Bolstar	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Chlorpyrifos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Coumaphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Demeton-o/s	ND		0.98	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Diazinon	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Dichlorvos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Disulfoton	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Ethoprop	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Fensulfothion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Fenthion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Merphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Methyl parathion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Mevinphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Naled	ND		3.9	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Phorate	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Ronnel	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Stirophos	ND		2.0	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Tokuthion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1
Trichloronate	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributylphosphate	131		20 - 158	10/25/21 17:25	11/02/21 10:47	1

**Client Sample ID: HA-4 @ 1'**  
**Date Collected: 10/22/21 10:26**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Bolstar	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Chlorpyrifos	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Coumaphos	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Demeton-o/s	ND		0.97	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Diazinon	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Dichlorvos	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Disulfoton	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Ethoprop	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Fensulfothion	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Fenthion	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Merphos	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Methyl parathion	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Mevinphos	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Naled	ND		3.9	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Phorate	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Ronnel	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Stirophos	ND		1.9	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Tokuthion	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1

Eurofins Calscience LLC

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

**Client Sample ID: HA-4 @ 1'**  
**Date Collected: 10/22/21 10:26**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloronate	ND		0.48	mg/Kg		10/25/21 17:25	11/02/21 11:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tributylphosphate	194	S1+	20 - 158			10/25/21 17:25	11/02/21 11:35	1

**Client Sample ID: HA-5 @ 2'**  
**Date Collected: 10/22/21 10:50**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Bolstar	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Chlorpyrifos	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Coumaphos	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Demeton-o/s	ND		0.99	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Diazinon	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Dichlorvos	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Disulfoton	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Ethoprop	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Fensulfothion	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Fenthion	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Merphos	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Methyl parathion	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Mevinphos	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Naled	ND		4.0	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Phorate	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Ronnel	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Stirophos	ND		2.0	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Tokuthion	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Trichloronate	ND		0.50	mg/Kg		10/25/21 17:25	11/03/21 04:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tributylphosphate	80		20 - 158			10/25/21 17:25	11/03/21 04:13	1

**Client Sample ID: HA-6 @ 1/2'**  
**Date Collected: 10/22/21 11:01**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Bolstar	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Chlorpyrifos	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Coumaphos	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Demeton-o/s	ND		0.97	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Diazinon	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Dichlorvos	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Disulfoton	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Ethoprop	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Fensulfothion	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Fenthion	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Merphos	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Methyl parathion	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

**Client Sample ID: HA-6 @ 1/2'**  
**Date Collected: 10/22/21 11:01**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mevinphos	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Naled	ND		3.9	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Phorate	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Ronnel	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Stirophos	ND		1.9	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Tokuthion	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1
Trichloronate	ND		0.48	mg/Kg		10/25/21 17:25	11/03/21 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributylphosphate	54		20 - 158	10/25/21 17:25	11/03/21 05:00	1

**Client Sample ID: HA-7 @ 1'**  
**Date Collected: 10/22/21 11:12**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Bolstar	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Chlorpyrifos	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Coumaphos	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Demeton-o/s	ND		0.99	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Diazinon	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Dichlorvos	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Disulfoton	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Ethoprop	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Fensulfothion	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Fenthion	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Merphos	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Methyl parathion	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Mevinphos	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Naled	ND		4.0	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Phorate	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Ronnel	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Stirophos	ND		2.0	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Tokuthion	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1
Trichloronate	ND		0.50	mg/Kg		10/25/21 17:25	11/02/21 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributylphosphate	68		20 - 158	10/25/21 17:25	11/02/21 17:07	1

**Client Sample ID: HA-8 @ 1/2'**  
**Date Collected: 10/22/21 11:21**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Bolstar	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Chlorpyrifos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Coumaphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Demeton-o/s	ND		0.99	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Diazinon	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Dichlorvos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1

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# Client Sample Results

Client: GeoSoils, Inc  
 Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

**Client Sample ID: HA-8 @ 1/2'**  
**Date Collected: 10/22/21 11:21**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Disulfoton	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Ethoprop	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Fensulfothion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Fenthion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Merphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Methyl parathion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Mevinphos	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Naled	ND		4.0	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Phorate	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Ronnel	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Stirophos	ND		2.0	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Tokuthion	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
Trichloronate	ND		0.49	mg/Kg		10/25/21 17:25	11/02/21 17:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tributylphosphate	71		20 - 158			10/25/21 17:25	11/02/21 17:55	1

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8151A - Herbicides (GC)

**Client Sample ID: HA-1 @ 2'**  
**Date Collected: 10/22/21 09:45**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
2,4-D	ND		100	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
Dalapon	ND		250	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
Dicamba	ND		10	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
MCPA	ND		20000	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
MCPD	ND		10000	ug/Kg		10/29/21 18:44	11/04/21 18:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	78		20 - 163			10/29/21 18:44	11/04/21 18:50	1

**Client Sample ID: HA-2 @ 1/2'**  
**Date Collected: 10/22/21 10:02**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
2,4-D	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
Dalapon	ND		250	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
Dicamba	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
MCPA	ND		20000	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
MCPD	ND		10000	ug/Kg		10/29/21 18:44	11/04/21 19:13	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	70		20 - 163			10/29/21 18:44	11/04/21 19:13	1

**Client Sample ID: HA-3 @ 1'**  
**Date Collected: 10/22/21 10:14**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
2,4-D	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
Dalapon	ND		260	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
Dicamba	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
MCPA	ND		21000	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
MCPD	ND		10000	ug/Kg		10/29/21 18:44	11/04/21 19:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	99		20 - 163			10/29/21 18:44	11/04/21 19:36	1

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8151A - Herbicides (GC)

**Client Sample ID: HA-4 @ 1'**  
**Date Collected: 10/22/21 10:26**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
2,4-D	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
Dalapon	ND		260	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
Dicamba	ND		10	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
MCPA	ND		21000	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
MCPP	ND		10000	ug/Kg		10/29/21 18:44	11/04/21 19:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	95		20 - 163			10/29/21 18:44	11/04/21 19:59	1

**Client Sample ID: HA-5 @ 2'**  
**Date Collected: 10/22/21 10:50**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
2,4-D	ND		100	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
Dalapon	ND		250	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
Dicamba	ND		10	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
MCPA	ND		20000	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
MCPP	ND		10000	ug/Kg		10/29/21 18:44	11/04/21 20:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	86		20 - 163			10/29/21 18:44	11/04/21 20:22	1

**Client Sample ID: HA-6 @ 1/2'**  
**Date Collected: 10/22/21 11:01**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
2,4-D	ND		100	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
Dalapon	ND		260	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
Dicamba	ND		10	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
MCPA	ND		21000	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
MCPP	ND		10000	ug/Kg		10/29/21 18:44	11/04/21 20:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	74		20 - 163			10/29/21 18:44	11/04/21 20:45	1

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8151A - Herbicides (GC)

**Client Sample ID: HA-7 @ 1'**  
**Date Collected: 10/22/21 11:12**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
2,4-D	ND		100	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
Dalapon	ND		260	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
Dicamba	ND		10	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
MCPA	ND		21000	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
MCPP	ND		10000	ug/Kg		10/29/21 18:44	11/04/21 21:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	81		20 - 163			10/29/21 18:44	11/04/21 21:08	1

**Client Sample ID: HA-8 @ 1/2'**  
**Date Collected: 10/22/21 11:21**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
2,4-D	ND		100	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
Dalapon	ND		260	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
Dicamba	ND		10	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
MCPA	ND		21000	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
MCPP	ND		10000	ug/Kg		10/29/21 18:44	11/04/21 21:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-Dichlorophenylacetic acid	82		20 - 163			10/29/21 18:44	11/04/21 21:32	1

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: HA-1 @ 2'**  
**Date Collected: 10/22/21 09:45**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.05	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
Arsenic	ND		2.54	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Barium</b>	<b>111</b>		0.508	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Beryllium</b>	<b>1.10</b>		0.254	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Cadmium</b>	<b>1.64</b>		0.508	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Chromium</b>	<b>24.0</b>		1.02	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Cobalt</b>	<b>8.27</b>		1.02	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Copper</b>	<b>25.5</b>		1.02	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Lead</b>	<b>5.38</b>		5.08	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Molybdenum</b>	<b>3.15</b>		0.508	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Nickel</b>	<b>15.2</b>		0.508	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
Selenium	ND		5.08	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
Silver	ND		1.02	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
Thallium	ND		5.08	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Vanadium</b>	<b>59.2</b>		1.02	mg/Kg		11/03/21 14:04	11/04/21 09:58	1
<b>Zinc</b>	<b>73.2</b>		10.2	mg/Kg		11/03/21 14:04	11/04/21 09:58	1

**Client Sample ID: HA-2 @ 1/2'**  
**Date Collected: 10/22/21 10:02**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.02	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
Arsenic	ND	L	2.51	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Barium</b>	<b>133</b>		0.503	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Beryllium</b>	<b>1.25</b>		0.251	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Cadmium</b>	<b>1.73</b>		0.503	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Chromium</b>	<b>25.0</b>		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Cobalt</b>	<b>8.65</b>		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Copper</b>	<b>37.1</b>		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Lead</b>	<b>8.89</b>		5.03	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Molybdenum</b>	<b>1.03</b>		0.503	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Nickel</b>	<b>20.6</b>		0.503	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
Selenium	ND		5.03	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
Silver	ND		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
Thallium	ND		5.03	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Vanadium</b>	<b>53.4</b>		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:00	1
<b>Zinc</b>	<b>99.3</b>		10.1	mg/Kg		11/03/21 14:04	11/04/21 10:00	1

**Client Sample ID: HA-3 @ 1'**  
**Date Collected: 10/22/21 10:14**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.88	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
Arsenic	ND		2.40	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Barium</b>	<b>127</b>		0.481	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Beryllium</b>	<b>0.800</b>		0.240	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Cadmium</b>	<b>0.618</b>		0.481	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Chromium</b>	<b>10.3</b>		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Cobalt</b>	<b>3.93</b>		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Copper</b>	<b>10.1</b>		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:02	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 6010B - Metals (ICP) (Continued)

**Client Sample ID: HA-3 @ 1'**  
**Date Collected: 10/22/21 10:14**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		4.81	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
Molybdenum	ND		0.481	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Nickel</b>	<b>6.99</b>		0.481	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
Selenium	ND		4.81	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
Silver	ND		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
Thallium	ND		4.81	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Vanadium</b>	<b>24.1</b>		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:02	1
<b>Zinc</b>	<b>32.6</b>		9.62	mg/Kg		11/03/21 14:04	11/04/21 10:02	1

**Client Sample ID: HA-4 @ 1'**  
**Date Collected: 10/22/21 10:26**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.16	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
Arsenic	ND		2.63	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Barium</b>	<b>68.3</b>		0.526	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Beryllium</b>	<b>0.417</b>		0.263	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Cadmium</b>	<b>0.671</b>		0.526	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Chromium</b>	<b>5.89</b>		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Cobalt</b>	<b>3.60</b>		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Copper</b>	<b>5.54</b>		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Lead</b>	<b>8.96</b>		5.26	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
Molybdenum	ND		0.526	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Nickel</b>	<b>3.18</b>		0.526	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
Selenium	ND		5.26	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
Silver	ND		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
Thallium	ND		5.26	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Vanadium</b>	<b>23.9</b>		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:11	1
<b>Zinc</b>	<b>27.2</b>		10.5	mg/Kg		11/03/21 14:04	11/04/21 10:11	1

**Client Sample ID: HA-5 @ 2'**  
**Date Collected: 10/22/21 10:50**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.02	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
Arsenic	ND		2.51	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Barium</b>	<b>107</b>		0.503	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Beryllium</b>	<b>0.915</b>		0.251	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Cadmium</b>	<b>0.925</b>		0.503	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Chromium</b>	<b>16.0</b>		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Cobalt</b>	<b>5.15</b>		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Copper</b>	<b>15.1</b>		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
Lead	ND		5.03	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
Molybdenum	ND		0.503	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Nickel</b>	<b>10.5</b>		0.503	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
Selenium	ND		5.03	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
Silver	ND		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
Thallium	ND		5.03	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Vanadium</b>	<b>33.0</b>		1.01	mg/Kg		11/03/21 14:04	11/04/21 10:13	1
<b>Zinc</b>	<b>48.9</b>		10.1	mg/Kg		11/03/21 14:04	11/04/21 10:13	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: HA-6 @ 1/2'**  
**Date Collected: 10/22/21 11:01**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.88	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Arsenic</b>	<b>3.03</b>		2.40	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Barium</b>	<b>68.1</b>		0.481	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Beryllium</b>	<b>1.18</b>		0.240	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Cadmium</b>	<b>1.87</b>		0.481	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Chromium</b>	<b>25.6</b>		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Cobalt</b>	<b>7.93</b>		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Copper</b>	<b>20.5</b>		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
Lead	ND		4.81	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
Molybdenum	ND		0.481	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Nickel</b>	<b>12.5</b>		0.481	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
Selenium	ND	L	4.81	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
Silver	ND		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
Thallium	ND		4.81	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Vanadium</b>	<b>70.4</b>		0.962	mg/Kg		11/03/21 14:04	11/04/21 10:15	1
<b>Zinc</b>	<b>80.6</b>		9.62	mg/Kg		11/03/21 14:04	11/04/21 10:15	1

**Client Sample ID: HA-7 @ 1'**  
**Date Collected: 10/22/21 11:12**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.90	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
Arsenic	ND		2.42	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Barium</b>	<b>56.7</b>		0.483	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Beryllium</b>	<b>0.966</b>		0.242	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Cadmium</b>	<b>1.47</b>		0.483	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Chromium</b>	<b>22.4</b>		0.966	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Cobalt</b>	<b>7.00</b>		0.966	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Copper</b>	<b>17.9</b>		0.966	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
Lead	ND		4.83	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Molybdenum</b>	<b>1.74</b>		0.483	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Nickel</b>	<b>10.1</b>		0.483	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
Selenium	ND		4.83	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
Silver	ND		0.966	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
Thallium	ND		4.83	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Vanadium</b>	<b>61.1</b>		0.966	mg/Kg		11/03/21 14:04	11/04/21 10:18	1
<b>Zinc</b>	<b>65.9</b>		9.66	mg/Kg		11/03/21 14:04	11/04/21 10:18	1

**Client Sample ID: HA-8 @ 1/2'**  
**Date Collected: 10/22/21 11:21**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.14	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
Arsenic	ND		2.62	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Barium</b>	<b>60.9</b>		0.524	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Beryllium</b>	<b>0.920</b>		0.262	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Cadmium</b>	<b>1.31</b>		0.524	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Chromium</b>	<b>22.0</b>		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Cobalt</b>	<b>6.89</b>		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Copper</b>	<b>16.7</b>		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:20	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 6010B - Metals (ICP) (Continued)

**Client Sample ID: HA-8 @ 1/2'**  
**Date Collected: 10/22/21 11:21**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		5.24	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
Molybdenum	ND		0.524	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Nickel</b>	<b>9.08</b>		0.524	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
Selenium	ND		5.24	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
Silver	ND		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
Thallium	ND		5.24	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Vanadium</b>	<b>58.5</b>		1.05	mg/Kg		11/03/21 14:04	11/04/21 10:20	1
<b>Zinc</b>	<b>66.4</b>		10.5	mg/Kg		11/03/21 14:04	11/04/21 10:20	1

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: HA-1 @ 2'**  
**Date Collected: 10/22/21 09:45**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	mg/Kg		11/03/21 16:38	11/04/21 11:54	1

**Client Sample ID: HA-2 @ 1/2'**  
**Date Collected: 10/22/21 10:02**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	mg/Kg		11/03/21 16:38	11/04/21 11:59	1

**Client Sample ID: HA-3 @ 1'**  
**Date Collected: 10/22/21 10:14**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0847	mg/Kg		11/03/21 16:38	11/04/21 12:01	1

**Client Sample ID: HA-4 @ 1'**  
**Date Collected: 10/22/21 10:26**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0820	mg/Kg		11/03/21 16:38	11/04/21 12:03	1

**Client Sample ID: HA-5 @ 2'**  
**Date Collected: 10/22/21 10:50**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0942		0.0833	mg/Kg		11/03/21 16:38	11/04/21 12:05	1

**Client Sample ID: HA-6 @ 1/2'**  
**Date Collected: 10/22/21 11:01**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0877	mg/Kg		11/03/21 16:38	11/04/21 12:10	1

**Client Sample ID: HA-7 @ 1'**  
**Date Collected: 10/22/21 11:12**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0820	mg/Kg		11/03/21 16:38	11/04/21 12:12	1

**Client Sample ID: HA-8 @ 1/2'**  
**Date Collected: 10/22/21 11:21**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	mg/Kg		11/03/21 16:38	11/04/21 12:14	1

# Surrogate Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (38-148)	DCB1 (37-151)
570-73610-1	HA-1 @ 2'	64	66
570-73610-1 - DL	HA-1 @ 2'	74	86
570-73610-2	HA-2 @ 1/2'	67	68
570-73610-3	HA-3 @ 1'	72	73
570-73610-4	HA-4 @ 1'	77	77
570-73610-5	HA-5 @ 2'	70	106
570-73610-6	HA-6 @ 1/2'	64	61
570-73610-7	HA-7 @ 1'	68	72
570-73610-7 MS	HA-7 @ 1'	75	61
570-73610-7 MSD	HA-7 @ 1'	58	65
570-73610-8	HA-8 @ 1/2'	70	68
LCS 570-189058/2-A	Lab Control Sample	84	79
LCSD 570-189058/3-A	Lab Control Sample Dup	82	77
MB 570-189058/1-A	Method Blank	73	64

#### Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

## Method: 8141A - Organophosphorous Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBPH2 (20-158)
570-73610-1	HA-1 @ 2'	95

#### Surrogate Legend

TBPH = Tributylphosphate

## Method: 8141A - Organophosphorous Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBPH1 (20-158)
570-73610-1 MS	HA-1 @ 2'	113
570-73610-1 MSD	HA-1 @ 2'	80
570-73610-2	HA-2 @ 1/2'	131
570-73610-3	HA-3 @ 1'	131
570-73610-4	HA-4 @ 1'	194 S1+
570-73610-5	HA-5 @ 2'	80
570-73610-6	HA-6 @ 1/2'	54
570-73610-7	HA-7 @ 1'	68
570-73610-8	HA-8 @ 1/2'	71
LCS 570-189184/2-A	Lab Control Sample	126
LCSD 570-189184/3-A	Lab Control Sample Dup	126
MB 570-189184/1-A	Method Blank	130

#### Surrogate Legend

TBPH = Tributylphosphate

# Surrogate Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

**Method: 8151A - Herbicides (GC)**

**Matrix: Solid**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA1 (20-163)
570-73610-1	HA-1 @ 2'	78
570-73610-2	HA-2 @ 1/2'	70
570-73610-3	HA-3 @ 1'	99
570-73610-4	HA-4 @ 1'	95
570-73610-5	HA-5 @ 2'	86
570-73610-6	HA-6 @ 1/2'	74
570-73610-7	HA-7 @ 1'	81
570-73610-8	HA-8 @ 1/2'	82
LCS 570-190530/2-A	Lab Control Sample	109
LCSD 570-190530/3-A	Lab Control Sample Dup	104
MB 570-190530/1-A	Method Blank	88

### Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid



# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 570-189058/1-A**  
**Matrix: Solid**  
**Analysis Batch: 189577**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 189058**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
4,4'-DDD	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
4,4'-DDE	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
4,4'-DDT	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Aldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
alpha-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
alpha-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
beta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Chlordane	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
delta-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Dieldrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Endosulfan I	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Endosulfan II	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Endosulfan sulfate	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Endrin	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Endrin aldehyde	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Endrin ketone	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
gamma-Chlordane	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
gamma-BHC	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Heptachlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Heptachlor epoxide	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Methoxychlor	ND		0.0050	mg/Kg		10/25/21 11:23	10/27/21 10:46	1
Toxaphene	ND		0.025	mg/Kg		10/25/21 11:23	10/27/21 10:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	73		38 - 148	10/25/21 11:23	10/27/21 10:46	1
DCB Decachlorobiphenyl (Surr)	64		37 - 151	10/25/21 11:23	10/27/21 10:46	1

**Lab Sample ID: LCS 570-189058/2-A**  
**Matrix: Solid**  
**Analysis Batch: 189577**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 189058**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
4,4'-DDD	0.0250	0.02052		mg/Kg		82		54 - 154
4,4'-DDE	0.0250	0.02094		mg/Kg		84		51 - 149
4,4'-DDT	0.0250	0.02021		mg/Kg		81		39 - 152
Aldrin	0.0250	0.01847		mg/Kg		74		52 - 138
alpha-BHC	0.0250	0.01915		mg/Kg		77		51 - 140
alpha-Chlordane	0.0250	0.01859		mg/Kg		74		53 - 141
beta-BHC	0.0250	0.01937		mg/Kg		77		53 - 141
delta-BHC	0.0250	0.02027		mg/Kg		81		20 - 132
Dieldrin	0.0250	0.01910		mg/Kg		76		52 - 144
Endosulfan I	0.0250	0.01809		mg/Kg		72		49 - 139
Endosulfan II	0.0250	0.01984		mg/Kg		79		51 - 150
Endosulfan sulfate	0.0250	0.01901		mg/Kg		76		45 - 139
Endrin	0.0250	0.01972		mg/Kg		79		53 - 151
Endrin aldehyde	0.0250	0.02087		mg/Kg		83		31 - 146
gamma-Chlordane	0.0250	0.01889		mg/Kg		76		46 - 156
gamma-BHC	0.0250	0.01915		mg/Kg		77		53 - 141

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# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 570-189058/2-A**  
**Matrix: Solid**  
**Analysis Batch: 189577**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 189058**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.0250	0.01895		mg/Kg		76	52 - 144
Heptachlor epoxide	0.0250	0.01873		mg/Kg		75	54 - 141
Methoxychlor	0.0250	0.01979		mg/Kg		79	47 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	84		38 - 148
DCB Decachlorobiphenyl (Surr)	79		37 - 151

**Lab Sample ID: LCSD 570-189058/3-A**  
**Matrix: Solid**  
**Analysis Batch: 189577**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 189058**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
4,4'-DDD	0.0250	0.02079		mg/Kg		83	54 - 154	1	30
4,4'-DDE	0.0250	0.02128		mg/Kg		85	51 - 149	2	28
4,4'-DDT	0.0250	0.02035		mg/Kg		81	39 - 152	1	31
Aldrin	0.0250	0.01908		mg/Kg		76	52 - 138	3	30
alpha-BHC	0.0250	0.01983		mg/Kg		79	51 - 140	3	29
alpha-Chlordane	0.0250	0.01896		mg/Kg		76	53 - 141	2	28
beta-BHC	0.0250	0.01989		mg/Kg		80	53 - 141	3	29
delta-BHC	0.0250	0.02101		mg/Kg		84	20 - 132	4	40
Dieldrin	0.0250	0.01952		mg/Kg		78	52 - 144	2	28
Endosulfan I	0.0250	0.01859		mg/Kg		74	49 - 139	3	28
Endosulfan II	0.0250	0.02015		mg/Kg		81	51 - 150	2	29
Endosulfan sulfate	0.0250	0.01923		mg/Kg		77	45 - 139	1	30
Endrin	0.0250	0.02006		mg/Kg		80	53 - 151	2	29
Endrin aldehyde	0.0250	0.02106		mg/Kg		84	31 - 146	1	40
gamma-Chlordane	0.0250	0.01936		mg/Kg		77	46 - 156	2	39
gamma-BHC	0.0250	0.01998		mg/Kg		80	53 - 141	4	29
Heptachlor	0.0250	0.01960		mg/Kg		78	52 - 144	3	29
Heptachlor epoxide	0.0250	0.01921		mg/Kg		77	54 - 141	3	29
Methoxychlor	0.0250	0.01979		mg/Kg		79	47 - 148	0	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	82		38 - 148
DCB Decachlorobiphenyl (Surr)	77		37 - 151

**Lab Sample ID: 570-73610-7 MS**  
**Matrix: Solid**  
**Analysis Batch: 189577**

**Client Sample ID: HA-7 @ 1'**  
**Prep Type: Total/NA**  
**Prep Batch: 189058**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		0.0247	0.01752		mg/Kg		71	27 - 144
4,4'-DDE	ND		0.0247	0.01703		mg/Kg		66	28 - 141
4,4'-DDT	ND		0.0247	0.01624		mg/Kg		66	10 - 154
Aldrin	ND		0.0247	0.01605		mg/Kg		65	26 - 125
alpha-BHC	ND		0.0247	0.01247		mg/Kg		50	24 - 125
alpha-Chlordane	ND		0.0247	0.01518		mg/Kg		61	17 - 144

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# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 570-73610-7 MS**  
**Matrix: Solid**  
**Analysis Batch: 189577**

**Client Sample ID: HA-7 @ 1'**  
**Prep Type: Total/NA**  
**Prep Batch: 189058**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	ND		0.0247	0.01197		mg/Kg		48	28 - 125
delta-BHC	ND		0.0247	0.01024		mg/Kg		41	10 - 125
Dieldrin	ND		0.0247	0.01449		mg/Kg		59	19 - 145
Endosulfan I	ND		0.0247	0.01505		mg/Kg		61	25 - 125
Endosulfan II	ND		0.0247	0.01603		mg/Kg		65	13 - 142
Endosulfan sulfate	ND		0.0247	0.01167		mg/Kg		47	14 - 126
Endrin	ND		0.0247	0.01626		mg/Kg		66	28 - 139
Endrin aldehyde	ND		0.0247	0.01314	p	mg/Kg		53	12 - 125
gamma-Chlordane	ND		0.0247	0.01818		mg/Kg		74	10 - 160
gamma-BHC	ND		0.0247	0.01141		mg/Kg		46	24 - 125
Heptachlor	ND		0.0247	0.01457		mg/Kg		59	19 - 127
Heptachlor epoxide	ND		0.0247	0.01685		mg/Kg		68	33 - 123
Methoxychlor	ND		0.0247	0.01799		mg/Kg		73	19 - 128
		<b>MS MS</b>							
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>Tetrachloro-m-xylene (Surr)</i>		75		38 - 148					
<i>DCB Decachlorobiphenyl (Surr)</i>		61		37 - 151					

**Lab Sample ID: 570-73610-7 MSD**  
**Matrix: Solid**  
**Analysis Batch: 189577**

**Client Sample ID: HA-7 @ 1'**  
**Prep Type: Total/NA**  
**Prep Batch: 189058**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.0248	0.01634		mg/Kg		66	27 - 144	7	40
4,4'-DDE	ND		0.0248	0.01742		mg/Kg		68	28 - 141	2	32
4,4'-DDT	ND		0.0248	0.01618		mg/Kg		65	10 - 154	0	40
Aldrin	ND		0.0248	0.01422		mg/Kg		57	26 - 125	12	40
alpha-BHC	ND		0.0248	0.01357		mg/Kg		55	24 - 125	8	40
alpha-Chlordane	ND		0.0248	0.01513		mg/Kg		61	17 - 144	0	40
beta-BHC	ND		0.0248	0.01381		mg/Kg		56	28 - 125	14	39
delta-BHC	ND		0.0248	0.01269		mg/Kg		51	10 - 125	21	40
Dieldrin	ND		0.0248	0.01562		mg/Kg		63	19 - 145	8	39
Endosulfan I	ND		0.0248	0.01463		mg/Kg		59	25 - 125	3	39
Endosulfan II	ND		0.0248	0.01573		mg/Kg		63	13 - 142	2	40
Endosulfan sulfate	ND		0.0248	0.01420		mg/Kg		57	14 - 126	20	38
Endrin	ND		0.0248	0.01618		mg/Kg		65	28 - 139	0	40
Endrin aldehyde	ND		0.0248	0.01314		mg/Kg		53	12 - 125	0	40
gamma-Chlordane	ND		0.0248	0.01737		mg/Kg		70	10 - 160	5	40
gamma-BHC	ND		0.0248	0.01339		mg/Kg		54	24 - 125	16	40
Heptachlor	ND		0.0248	0.01368		mg/Kg		55	19 - 127	6	40
Heptachlor epoxide	ND		0.0248	0.01513		mg/Kg		61	33 - 123	11	34
Methoxychlor	ND		0.0248	0.01545		mg/Kg		62	19 - 128	15	40
		<b>MSD MSD</b>									
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
<i>Tetrachloro-m-xylene (Surr)</i>		58		38 - 148							
<i>DCB Decachlorobiphenyl (Surr)</i>		65		37 - 151							

# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8141A - Organophosphorous Pesticides (GC)

**Lab Sample ID: MB 570-189184/1-A**  
**Matrix: Solid**  
**Analysis Batch: 190821**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 189184**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Bolstar	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Chlorpyrifos	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Coumaphos	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Demeton-o/s	ND		1.0	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Diazinon	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Dichlorvos	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Disulfoton	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Ethoprop	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Fensulfothion	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Fenthion	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Merphos	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Methyl parathion	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Mevinphos	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Naled	ND		4.0	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Phorate	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Ronnel	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Stirophos	ND		2.0	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Tokuthion	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1
Trichloronate	ND		0.50	mg/Kg		10/25/21 17:24	11/02/21 03:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributylphosphate	130		20 - 158	10/25/21 17:24	11/02/21 03:39	1

**Lab Sample ID: LCS 570-189184/2-A**  
**Matrix: Solid**  
**Analysis Batch: 190014**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 189184**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Dichlorvos	4.00	2.326		mg/Kg		58	27 - 120
Merphos	4.00	6.036	E	mg/Kg		151	20 - 180

**Lab Sample ID: LCS 570-189184/2-A**  
**Matrix: Solid**  
**Analysis Batch: 190821**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 189184**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Azinphos-methyl	4.00	4.980		mg/Kg		124	59 - 156
Bolstar	4.00	4.349		mg/Kg		109	45 - 145
Chlorpyrifos	4.00	4.267		mg/Kg		107	42 - 139
Coumaphos	4.00	4.481		mg/Kg		112	64 - 149
Demeton-o/s	8.00	9.114		mg/Kg		114	20 - 130
Diazinon	4.00	4.246		mg/Kg		106	36 - 149
Disulfoton	4.00	4.665		mg/Kg		117	45 - 132
Ethoprop	4.00	4.254		mg/Kg		106	41 - 138
Fensulfothion	4.00	4.411		mg/Kg		110	53 - 151
Fenthion	4.00	4.347		mg/Kg		109	49 - 150
Methyl parathion	4.00	4.618		mg/Kg		115	48 - 149

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# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

**Lab Sample ID: LCS 570-189184/2-A**  
**Matrix: Solid**  
**Analysis Batch: 190821**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 189184**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mevinphos	4.00	3.605		mg/Kg		90	42 - 135
Naled	4.00	2.833	J	mg/Kg		71	20 - 180
Phorate	4.00	4.326		mg/Kg		108	42 - 137
Ronnel	4.00	4.250		mg/Kg		106	45 - 141
Stirophos	4.00	4.470		mg/Kg		112	43 - 166
Tokuthion	4.00	4.277		mg/Kg		107	50 - 131
Trichloronate	4.00	4.295		mg/Kg		107	45 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tributylphosphate	126		20 - 158

**Lab Sample ID: LCSD 570-189184/3-A**  
**Matrix: Solid**  
**Analysis Batch: 190014**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 189184**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorvos	4.00	3.138		mg/Kg		78	27 - 120	30	30
Merphos	4.00	5.739		mg/Kg		143	20 - 180	5	30

**Lab Sample ID: LCSD 570-189184/3-A**  
**Matrix: Solid**  
**Analysis Batch: 190821**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 189184**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Azinphos-methyl	4.00	4.882		mg/Kg		122	59 - 156	2	27
Bolstar	4.00	4.317		mg/Kg		108	45 - 145	1	24
Chlorpyrifos	4.00	4.271		mg/Kg		107	42 - 139	0	28
Coumaphos	4.00	4.511		mg/Kg		113	64 - 149	1	26
Demeton-o/s	8.00	9.075		mg/Kg		113	20 - 130	0	20
Diazinon	4.00	4.210		mg/Kg		105	36 - 149	1	28
Disulfoton	4.00	4.564		mg/Kg		114	45 - 132	2	27
Ethoprop	4.00	4.348		mg/Kg		109	41 - 138	2	26
Fensulfothion	4.00	4.367		mg/Kg		109	53 - 151	1	23
Fenthion	4.00	4.337		mg/Kg		108	49 - 150	0	30
Methyl parathion	4.00	4.712		mg/Kg		118	48 - 149	2	30
Mevinphos	4.00	3.750		mg/Kg		94	42 - 135	4	30
Naled	4.00	2.668	J	mg/Kg		67	20 - 180	6	30
Phorate	4.00	4.293		mg/Kg		107	42 - 137	1	29
Ronnel	4.00	4.228		mg/Kg		106	45 - 141	1	30
Stirophos	4.00	4.424		mg/Kg		111	43 - 166	1	25
Tokuthion	4.00	4.280		mg/Kg		107	50 - 131	0	20
Trichloronate	4.00	4.241		mg/Kg		106	45 - 138	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tributylphosphate	126		20 - 158





# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

**Lab Sample ID: 570-73610-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 190821**

**Client Sample ID: HA-1 @ 2'**  
**Prep Type: Total/NA**  
**Prep Batch: 189184**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloronate	ND	F2	3.95	2.469	p	mg/Kg		63	24 - 153	36	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
Tributylphosphate	80		20 - 158								

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 570-190530/1-A**  
**Matrix: Solid**  
**Analysis Batch: 191625**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 190530**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
2,4,5-TP (Silvex)	ND		10	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
2,4-D	ND		100	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
2,4-DB	ND		100	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
Dalapon	ND		250	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
Dicamba	ND		10	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
Dichlorprop	ND		100	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
Dinoseb	ND		100	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
MCPA	ND		20000	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
MCPP	ND		10000	ug/Kg		10/29/21 18:43	11/03/21 21:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
2,4-Dichlorophenylacetic acid	88		20 - 163	10/29/21 18:43	11/03/21 21:34	1		

**Lab Sample ID: LCS 570-190530/2-A**  
**Matrix: Solid**  
**Analysis Batch: 191625**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 190530**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	20.0	13.86		ug/Kg		69	44 - 139
2,4-D	200	157.5		ug/Kg		79	27 - 160
2,4-DB	200	249.6	p	ug/Kg		125	55 - 190
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
2,4-Dichlorophenylacetic acid	109		20 - 163				

**Lab Sample ID: LCSD 570-190530/3-A**  
**Matrix: Solid**  
**Analysis Batch: 191625**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 190530**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	20.0	13.21		ug/Kg		66	44 - 139	5	30
2,4-D	200	140.4		ug/Kg		70	27 - 160	12	30
2,4-DB	200	242.1	p	ug/Kg		121	55 - 190	3	30

# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 8151A - Herbicides (GC) (Continued)

**Lab Sample ID: LCSD 570-190530/3-A**  
**Matrix: Solid**  
**Analysis Batch: 191625**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 190530**

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	104		20 - 163

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-191499/1-A**  
**Matrix: Solid**  
**Analysis Batch: 191779**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 191499**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Antimony	ND		3.13	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Arsenic	ND		2.60	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Barium	ND		0.521	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Beryllium	ND		0.260	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Cadmium	ND		0.521	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Chromium	ND		1.04	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Cobalt	ND		1.04	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Copper	ND		1.04	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Lead	ND		5.21	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Molybdenum	ND		0.521	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Nickel	ND		0.521	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Selenium	ND		5.21	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Silver	ND		1.04	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Thallium	ND		5.21	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Vanadium	ND		1.04	mg/Kg		11/03/21 14:04	11/04/21 09:26	1
Zinc	ND		10.4	mg/Kg		11/03/21 14:04	11/04/21 09:26	1

**Lab Sample ID: LCS 570-191499/2-A**  
**Matrix: Solid**  
**Analysis Batch: 191779**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 191499**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	26.3	27.17		mg/Kg		103		80 - 120
Arsenic	26.3	24.15		mg/Kg		92		80 - 120
Barium	26.3	30.64		mg/Kg		116		80 - 120
Beryllium	26.3	26.71		mg/Kg		102		80 - 120
Cadmium	26.3	27.41		mg/Kg		104		80 - 120
Chromium	26.3	27.29		mg/Kg		104		80 - 120
Cobalt	26.3	27.32		mg/Kg		104		80 - 120
Copper	26.3	28.19		mg/Kg		107		80 - 120
Lead	26.3	28.02		mg/Kg		106		80 - 120
Molybdenum	26.4	26.56		mg/Kg		101		80 - 120
Nickel	26.3	28.35		mg/Kg		108		80 - 120
Selenium	26.3	26.06		mg/Kg		99		80 - 120
Silver	13.2	11.96		mg/Kg		91		80 - 120
Thallium	26.3	27.39		mg/Kg		104		80 - 120
Vanadium	26.3	26.84		mg/Kg		102		80 - 120
Zinc	26.3	27.69		mg/Kg		105		80 - 120

# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCSD 570-191499/3-A**  
**Matrix: Solid**  
**Analysis Batch: 191779**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 191499**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Antimony	25.9	27.31		mg/Kg		105	80 - 120	1	20	
Arsenic	25.9	24.24		mg/Kg		94	80 - 120	0	20	
Barium	25.9	29.92		mg/Kg		115	80 - 120	2	20	
Beryllium	25.9	26.46		mg/Kg		102	80 - 120	1	20	
Cadmium	25.9	27.14		mg/Kg		105	80 - 120	1	20	
Chromium	25.9	26.95		mg/Kg		104	80 - 120	1	20	
Cobalt	25.9	26.96		mg/Kg		104	80 - 120	1	20	
Copper	25.9	27.96		mg/Kg		108	80 - 120	1	20	
Lead	25.9	28.00		mg/Kg		108	80 - 120	0	20	
Molybdenum	25.9	26.86		mg/Kg		104	80 - 120	1	20	
Nickel	25.9	28.08		mg/Kg		108	80 - 120	1	20	
Selenium	25.9	27.46		mg/Kg		106	80 - 120	5	20	
Silver	13.0	11.82		mg/Kg		91	80 - 120	1	20	
Thallium	25.9	27.58		mg/Kg		106	80 - 120	1	20	
Vanadium	25.9	26.56		mg/Kg		103	80 - 120	1	20	
Zinc	25.9	27.37		mg/Kg		106	80 - 120	1	20	

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 570-191554/1-A**  
**Matrix: Solid**  
**Analysis Batch: 191839**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 191554**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Mercury	ND		0.0833	mg/Kg		11/03/21 16:38	11/04/21 11:48	1

**Lab Sample ID: LCS 570-191554/2-A**  
**Matrix: Solid**  
**Analysis Batch: 191839**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 191554**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
Mercury	0.847	0.8584		mg/Kg		101	85 - 121	

**Lab Sample ID: LCSD 570-191554/3-A**  
**Matrix: Solid**  
**Analysis Batch: 191839**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 191554**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Mercury	0.820	0.8177		mg/Kg		100	85 - 121	5	10	

**Lab Sample ID: 570-73610-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 191839**

**Client Sample ID: HA-1 @ 2'**  
**Prep Type: Total/NA**  
**Prep Batch: 191554**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Mercury	ND		0.862	0.7777		mg/Kg		88	71 - 137	

# QC Sample Results

Client: GeoSoils, Inc  
 Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: 570-73610-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 191839**

**Client Sample ID: HA-1 @ 2'**  
**Prep Type: Total/NA**  
**Prep Batch: 191554**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	ND		0.820	0.7311		mg/Kg		87	71 - 137	6	14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# QC Association Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## GC Semi VOA

### Prep Batch: 189058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1 - DL	HA-1 @ 2'	Total/NA	Solid	3546	
570-73610-1	HA-1 @ 2'	Total/NA	Solid	3546	
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	3546	
570-73610-3	HA-3 @ 1'	Total/NA	Solid	3546	
570-73610-4	HA-4 @ 1'	Total/NA	Solid	3546	
570-73610-5	HA-5 @ 2'	Total/NA	Solid	3546	
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	3546	
570-73610-7	HA-7 @ 1'	Total/NA	Solid	3546	
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	3546	
MB 570-189058/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-189058/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-189058/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-73610-7 MS	HA-7 @ 1'	Total/NA	Solid	3546	
570-73610-7 MSD	HA-7 @ 1'	Total/NA	Solid	3546	

### Prep Batch: 189184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	3546	
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	3546	
570-73610-3	HA-3 @ 1'	Total/NA	Solid	3546	
570-73610-4	HA-4 @ 1'	Total/NA	Solid	3546	
570-73610-5	HA-5 @ 2'	Total/NA	Solid	3546	
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	3546	
570-73610-7	HA-7 @ 1'	Total/NA	Solid	3546	
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	3546	
MB 570-189184/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-189184/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-189184/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
570-73610-1 MS	HA-1 @ 2'	Total/NA	Solid	3546	
570-73610-1 MSD	HA-1 @ 2'	Total/NA	Solid	3546	

### Analysis Batch: 189577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	8081A	189058
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	8081A	189058
570-73610-3	HA-3 @ 1'	Total/NA	Solid	8081A	189058
570-73610-4	HA-4 @ 1'	Total/NA	Solid	8081A	189058
570-73610-5	HA-5 @ 2'	Total/NA	Solid	8081A	189058
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	8081A	189058
570-73610-7	HA-7 @ 1'	Total/NA	Solid	8081A	189058
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	8081A	189058
MB 570-189058/1-A	Method Blank	Total/NA	Solid	8081A	189058
LCS 570-189058/2-A	Lab Control Sample	Total/NA	Solid	8081A	189058
LCSD 570-189058/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	189058
570-73610-7 MS	HA-7 @ 1'	Total/NA	Solid	8081A	189058
570-73610-7 MSD	HA-7 @ 1'	Total/NA	Solid	8081A	189058

### Analysis Batch: 189920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1 - DL	HA-1 @ 2'	Total/NA	Solid	8081A	189058

# QC Association Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## GC Semi VOA

### Analysis Batch: 190014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-189184/2-A	Lab Control Sample	Total/NA	Solid	8141A	189184
LCSD 570-189184/3-A	Lab Control Sample Dup	Total/NA	Solid	8141A	189184

### Prep Batch: 190530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	8151A	
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	8151A	
570-73610-3	HA-3 @ 1'	Total/NA	Solid	8151A	
570-73610-4	HA-4 @ 1'	Total/NA	Solid	8151A	
570-73610-5	HA-5 @ 2'	Total/NA	Solid	8151A	
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	8151A	
570-73610-7	HA-7 @ 1'	Total/NA	Solid	8151A	
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	8151A	
MB 570-190530/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 570-190530/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 570-190530/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

### Analysis Batch: 190821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	8141A	189184
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	8141A	189184
570-73610-3	HA-3 @ 1'	Total/NA	Solid	8141A	189184
570-73610-4	HA-4 @ 1'	Total/NA	Solid	8141A	189184
570-73610-5	HA-5 @ 2'	Total/NA	Solid	8141A	189184
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	8141A	189184
570-73610-7	HA-7 @ 1'	Total/NA	Solid	8141A	189184
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	8141A	189184
MB 570-189184/1-A	Method Blank	Total/NA	Solid	8141A	189184
LCS 570-189184/2-A	Lab Control Sample	Total/NA	Solid	8141A	189184
LCSD 570-189184/3-A	Lab Control Sample Dup	Total/NA	Solid	8141A	189184
570-73610-1 MS	HA-1 @ 2'	Total/NA	Solid	8141A	189184
570-73610-1 MSD	HA-1 @ 2'	Total/NA	Solid	8141A	189184

### Analysis Batch: 191625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-190530/1-A	Method Blank	Total/NA	Solid	8151A	190530
LCS 570-190530/2-A	Lab Control Sample	Total/NA	Solid	8151A	190530
LCSD 570-190530/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	190530

### Analysis Batch: 191928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	8151A	190530
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	8151A	190530
570-73610-3	HA-3 @ 1'	Total/NA	Solid	8151A	190530
570-73610-4	HA-4 @ 1'	Total/NA	Solid	8151A	190530
570-73610-5	HA-5 @ 2'	Total/NA	Solid	8151A	190530
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	8151A	190530
570-73610-7	HA-7 @ 1'	Total/NA	Solid	8151A	190530
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	8151A	190530



# QC Association Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Metals

### Prep Batch: 191499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	3050B	
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	3050B	
570-73610-3	HA-3 @ 1'	Total/NA	Solid	3050B	
570-73610-4	HA-4 @ 1'	Total/NA	Solid	3050B	
570-73610-5	HA-5 @ 2'	Total/NA	Solid	3050B	
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	3050B	
570-73610-7	HA-7 @ 1'	Total/NA	Solid	3050B	
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	3050B	
MB 570-191499/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-191499/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-191499/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

### Prep Batch: 191554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	7471A	
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	7471A	
570-73610-3	HA-3 @ 1'	Total/NA	Solid	7471A	
570-73610-4	HA-4 @ 1'	Total/NA	Solid	7471A	
570-73610-5	HA-5 @ 2'	Total/NA	Solid	7471A	
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	7471A	
570-73610-7	HA-7 @ 1'	Total/NA	Solid	7471A	
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	7471A	
MB 570-191554/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-191554/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-191554/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-73610-1 MS	HA-1 @ 2'	Total/NA	Solid	7471A	
570-73610-1 MSD	HA-1 @ 2'	Total/NA	Solid	7471A	

### Analysis Batch: 191779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	6010B	191499
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	6010B	191499
570-73610-3	HA-3 @ 1'	Total/NA	Solid	6010B	191499
570-73610-4	HA-4 @ 1'	Total/NA	Solid	6010B	191499
570-73610-5	HA-5 @ 2'	Total/NA	Solid	6010B	191499
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	6010B	191499
570-73610-7	HA-7 @ 1'	Total/NA	Solid	6010B	191499
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	6010B	191499
MB 570-191499/1-A	Method Blank	Total/NA	Solid	6010B	191499
LCS 570-191499/2-A	Lab Control Sample	Total/NA	Solid	6010B	191499
LCSD 570-191499/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	191499

### Analysis Batch: 191839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-1	HA-1 @ 2'	Total/NA	Solid	7471A	191554
570-73610-2	HA-2 @ 1/2'	Total/NA	Solid	7471A	191554
570-73610-3	HA-3 @ 1'	Total/NA	Solid	7471A	191554
570-73610-4	HA-4 @ 1'	Total/NA	Solid	7471A	191554
570-73610-5	HA-5 @ 2'	Total/NA	Solid	7471A	191554
570-73610-6	HA-6 @ 1/2'	Total/NA	Solid	7471A	191554
570-73610-7	HA-7 @ 1'	Total/NA	Solid	7471A	191554

Eurofins Calscience LLC

# QC Association Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Metals (Continued)

### Analysis Batch: 191839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73610-8	HA-8 @ 1/2'	Total/NA	Solid	7471A	191554
MB 570-191554/1-A	Method Blank	Total/NA	Solid	7471A	191554
LCS 570-191554/2-A	Lab Control Sample	Total/NA	Solid	7471A	191554
LCSD 570-191554/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	191554
570-73610-1 MS	HA-1 @ 2'	Total/NA	Solid	7471A	191554
570-73610-1 MSD	HA-1 @ 2'	Total/NA	Solid	7471A	191554

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# Lab Chronicle

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

**Client Sample ID: HA-1 @ 2'**  
**Date Collected: 10/22/21 09:45**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-1**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.04 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A		1			189577	10/27/21 11:36	UHHN	ECL 1
Instrument ID: GC44										
Total/NA	Prep	3546	DL		20.04 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A	DL	10			189920	10/28/21 09:15	UHHN	ECL 1
Instrument ID: GC44										
Total/NA	Prep	3546			10.19 g	10 mL	189184	10/25/21 17:25	USUL	ECL 1
Total/NA	Analysis	8141A		1			190821	11/02/21 16:20	UJ3K	ECL 1
Instrument ID: GC69										
Total/NA	Prep	8151A			49.21 g	5 mL	190530	10/29/21 18:44	J7WE	ECL 1
Total/NA	Analysis	8151A		1			191928	11/04/21 18:50	J7WE	ECL 1
Instrument ID: GC41										
Total/NA	Prep	3050B			1.97 g	100 mL	191499	11/03/21 14:04	WL8G	ECL 1
Total/NA	Analysis	6010B		1			191779	11/04/21 09:58	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			.60 g	100 mL	191554	11/03/21 16:38	WL8G	ECL 1
Total/NA	Analysis	7471A		1			191839	11/04/21 11:54	VWJ7	ECL 1
Instrument ID: HG8										

**Client Sample ID: HA-2 @ 1/2'**  
**Date Collected: 10/22/21 10:02**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-2**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.38 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A		1			189577	10/27/21 19:00	UHHN	ECL 1
Instrument ID: GC44										
Total/NA	Prep	3546			10.13 g	10 mL	189184	10/25/21 17:25	USUL	ECL 1
Total/NA	Analysis	8141A		1			190821	11/02/21 09:59	UJ3K	ECL 1
Instrument ID: GC69										
Total/NA	Prep	8151A			49.07 g	5 mL	190530	10/29/21 18:44	J7WE	ECL 1
Total/NA	Analysis	8151A		1			191928	11/04/21 19:13	J7WE	ECL 1
Instrument ID: GC41										
Total/NA	Prep	3050B			1.99 g	100 mL	191499	11/03/21 14:04	WL8G	ECL 1
Total/NA	Analysis	6010B		1			191779	11/04/21 10:00	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			.60 g	100 mL	191554	11/03/21 16:38	WL8G	ECL 1
Total/NA	Analysis	7471A		1			191839	11/04/21 11:59	VWJ7	ECL 1
Instrument ID: HG8										

# Lab Chronicle

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

**Client Sample ID: HA-3 @ 1'**  
**Date Collected: 10/22/21 10:14**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-3**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.29 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A		1			189577	10/27/21 19:14	UHHN	ECL 1
Instrument ID: GC44										
Total/NA	Prep	3546			10.23 g	10 mL	189184	10/25/21 17:25	USUL	ECL 1
Total/NA	Analysis	8141A		1			190821	11/02/21 10:47	UJ3K	ECL 1
Instrument ID: GC69										
Total/NA	Prep	8151A			48.61 g	5 mL	190530	10/29/21 18:44	J7WE	ECL 1
Total/NA	Analysis	8151A		1			191928	11/04/21 19:36	J7WE	ECL 1
Instrument ID: GC41										
Total/NA	Prep	3050B			2.08 g	100 mL	191499	11/03/21 14:04	WL8G	ECL 1
Total/NA	Analysis	6010B		1			191779	11/04/21 10:02	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			.59 g	100 mL	191554	11/03/21 16:38	WL8G	ECL 1
Total/NA	Analysis	7471A		1			191839	11/04/21 12:01	VWJ7	ECL 1
Instrument ID: HG8										

**Client Sample ID: HA-4 @ 1'**  
**Date Collected: 10/22/21 10:26**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-4**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.05 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A		1			189577	10/27/21 19:28	UHHN	ECL 1
Instrument ID: GC44										
Total/NA	Prep	3546			10.35 g	10 mL	189184	10/25/21 17:25	USUL	ECL 1
Total/NA	Analysis	8141A		1			190821	11/02/21 11:35	UJ3K	ECL 1
Instrument ID: GC69										
Total/NA	Prep	8151A			48.75 g	5 mL	190530	10/29/21 18:44	J7WE	ECL 1
Total/NA	Analysis	8151A		1			191928	11/04/21 19:59	J7WE	ECL 1
Instrument ID: GC41										
Total/NA	Prep	3050B			1.90 g	100 mL	191499	11/03/21 14:04	WL8G	ECL 1
Total/NA	Analysis	6010B		1			191779	11/04/21 10:11	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			.61 g	100 mL	191554	11/03/21 16:38	WL8G	ECL 1
Total/NA	Analysis	7471A		1			191839	11/04/21 12:03	VWJ7	ECL 1
Instrument ID: HG8										

**Client Sample ID: HA-5 @ 2'**  
**Date Collected: 10/22/21 10:50**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-5**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.20 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A		1			189577	10/27/21 14:28	UHHN	ECL 1
Instrument ID: GC44										

# Lab Chronicle

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

**Client Sample ID: HA-5 @ 2'**  
**Date Collected: 10/22/21 10:50**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-5**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10.09 g	10 mL	189184	10/25/21 17:25	USUL	ECL 1
Total/NA	Analysis	8141A		1			190821	11/03/21 04:13	UJ3K	ECL 1
Instrument ID: GC69										
Total/NA	Prep	8151A			49.43 g	5 mL	190530	10/29/21 18:44	J7WE	ECL 1
Total/NA	Analysis	8151A		1			191928	11/04/21 20:22	J7WE	ECL 1
Instrument ID: GC41										
Total/NA	Prep	3050B			1.99 g	100 mL	191499	11/03/21 14:04	WL8G	ECL 1
Total/NA	Analysis	6010B		1			191779	11/04/21 10:13	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			.60 g	100 mL	191554	11/03/21 16:38	WL8G	ECL 1
Total/NA	Analysis	7471A		1			191839	11/04/21 12:05	VWJ7	ECL 1
Instrument ID: HG8										

**Client Sample ID: HA-6 @ 1/2'**  
**Date Collected: 10/22/21 11:01**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-6**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.33 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A		1			189577	10/27/21 14:13	UHHN	ECL 1
Instrument ID: GC44										
Total/NA	Prep	3546			10.33 g	10 mL	189184	10/25/21 17:25	USUL	ECL 1
Total/NA	Analysis	8141A		1			190821	11/03/21 05:00	UJ3K	ECL 1
Instrument ID: GC69										
Total/NA	Prep	8151A			48.00 g	5 mL	190530	10/29/21 18:44	J7WE	ECL 1
Total/NA	Analysis	8151A		1			191928	11/04/21 20:45	J7WE	ECL 1
Instrument ID: GC41										
Total/NA	Prep	3050B			2.08 g	100 mL	191499	11/03/21 14:04	WL8G	ECL 1
Total/NA	Analysis	6010B		1			191779	11/04/21 10:15	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			.57 g	100 mL	191554	11/03/21 16:38	WL8G	ECL 1
Total/NA	Analysis	7471A		1			191839	11/04/21 12:10	VWJ7	ECL 1
Instrument ID: HG8										

**Client Sample ID: HA-7 @ 1'**  
**Date Collected: 10/22/21 11:12**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.30 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A		1			189577	10/27/21 17:46	UHHN	ECL 1
Instrument ID: GC44										
Total/NA	Prep	3546			10.09 g	10 mL	189184	10/25/21 17:25	USUL	ECL 1
Total/NA	Analysis	8141A		1			190821	11/02/21 17:07	UJ3K	ECL 1
Instrument ID: GC69										

# Lab Chronicle

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

**Client Sample ID: HA-7 @ 1'**  
**Date Collected: 10/22/21 11:12**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			48.52 g	5 mL	190530	10/29/21 18:44	J7WE	ECL 1
Total/NA	Analysis	8151A		1			191928	11/04/21 21:08	J7WE	ECL 1
Instrument ID: GC41										
Total/NA	Prep	3050B			2.07 g	100 mL	191499	11/03/21 14:04	WL8G	ECL 1
Total/NA	Analysis	6010B		1			191779	11/04/21 10:18	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			.61 g	100 mL	191554	11/03/21 16:38	WL8G	ECL 1
Total/NA	Analysis	7471A		1			191839	11/04/21 12:12	VWJ7	ECL 1
Instrument ID: HG8										

**Client Sample ID: HA-8 @ 1/2'**  
**Date Collected: 10/22/21 11:21**  
**Date Received: 10/22/21 15:49**

**Lab Sample ID: 570-73610-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.20 g	10 mL	189058	10/25/21 11:23	USUL	ECL 1
Total/NA	Analysis	8081A		1			189577	10/27/21 11:50	UHHN	ECL 1
Instrument ID: GC44										
Total/NA	Prep	3546			10.11 g	10 mL	189184	10/25/21 17:25	USUL	ECL 1
Total/NA	Analysis	8141A		1			190821	11/02/21 17:55	UJ3K	ECL 1
Instrument ID: GC69										
Total/NA	Prep	8151A			48.15 g	5 mL	190530	10/29/21 18:44	J7WE	ECL 1
Total/NA	Analysis	8151A		1			191928	11/04/21 21:32	J7WE	ECL 1
Instrument ID: GC41										
Total/NA	Prep	3050B			1.91 g	100 mL	191499	11/03/21 14:04	WL8G	ECL 1
Total/NA	Analysis	6010B		1			191779	11/04/21 10:20	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			.60 g	100 mL	191554	11/03/21 16:38	WL8G	ECL 1
Total/NA	Analysis	7471A		1			191839	11/04/21 12:14	VWJ7	ECL 1
Instrument ID: HG8										

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



# Accreditation/Certification Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22
Oregon	NELAP	CA300001	01-30-22

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# Method Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	ECL 1
8141A	Organophosphorous Pesticides (GC)	SW846	ECL 1
8151A	Herbicides (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
7471A	Mercury (CVAA)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3546	Microwave Extraction	SW846	ECL 1
7471A	Preparation, Mercury	SW846	ECL 1
8151A	Extraction (Herbicides)	SW846	ECL 1

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

# Sample Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-73610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-73610-1	HA-1 @ 2'	Solid	10/22/21 09:45	10/22/21 15:49
570-73610-2	HA-2 @ 1/2'	Solid	10/22/21 10:02	10/22/21 15:49
570-73610-3	HA-3 @ 1'	Solid	10/22/21 10:14	10/22/21 15:49
570-73610-4	HA-4 @ 1'	Solid	10/22/21 10:26	10/22/21 15:49
570-73610-5	HA-5 @ 2'	Solid	10/22/21 10:50	10/22/21 15:49
570-73610-6	HA-6 @ 1/2'	Solid	10/22/21 11:01	10/22/21 15:49
570-73610-7	HA-7 @ 1'	Solid	10/22/21 11:12	10/22/21 15:49
570-73610-8	HA-8 @ 1/2'	Solid	10/22/21 11:21	10/22/21 15:49

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Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information contact us26\_sales@eurofins.com or call us.

LABORATORY CLIENT: *GesSoils, Inc.*

ADDRESS: *18451 Collier Ave, Suite A*

CITY: *Lake Elsinore* STATE: *CA* ZIP: *92530*

TEL: *(951) 471-0700* E-MAIL: *tyner@gessoilinc.com*

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF  OTHER

SPECIAL INSTRUCTIONS:



570-73610 Chain of Custody

73610

CHAIN-OF-CUSTODY RECORD

Date: *10/22/2021* of *1* Page

CLIENT PROJECT NAME / NO <i>Glen Ivy Properties</i> E7731.1		LAB CONTACT OR QUOTE NO.																					
PROJECT CONTACT <i>Todd Greer</i>		SAMPLER(S): (PRINT) <i>Todd Greer</i>																					
GLOBAL ID:		LOG CODE:																					
<b>REQUESTED ANALYSES</b> Please check box or fill in blank as needed																							
LAB USE ONLY	SAMPLE ID	SAMPLING		NO. OF CONT	Field Filtered	Preserved	Unpreserved	TPH (g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081) <i>ac.P's</i>	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 2186	Time:	
		DATE	TIME																				
	<i>HA-1 @ 2'</i>	<i>10/22/21</i>	<i>9:45A</i>	<i>Soil</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																<i>2:17P</i>
	<i>HA-2 @ 1/2'</i>		<i>10:02A</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																<i>15:49</i>
	<i>HA-3 @ 1'</i>		<i>10:14A</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	<i>HA-4 @ 1'</i>		<i>10:26A</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	<i>HA-5 @ 2'</i>		<i>10:50A</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	<i>HA-6 @ 1/2'</i>		<i>11:01A</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	<i>HA-7 @ 1'</i>		<i>11:12A</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	<i>HA-8 @ 1/2'</i>		<i>11:21A</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
Relinquished by (Signature) <i>Todd Greer</i>		Date: <i>10/22/21</i>		Received by (Signature/Affiliation) <i>Melinda J...</i> GesSoils		Date: <i>10/22/21</i>		Time: <i>2:17P</i>															
Relinquished by (Signature)		Date: <i>10/22/2021</i>		Received by (Signature/Affiliation) <i>Melinda J...</i> ECT		Date: <i>10-22-2021</i>		Time: <i>15:49</i>															
Relinquished by (Signature)		Date:		Received by (Signature/Affiliation)		Date:		Time:															

23/3.2 SCS



# Login Sample Receipt Checklist

Client: GeoSoils, Inc

Job Number: 570-73610-1

**Login Number: 73610**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Cortez Diaz, Antonio**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**SUPPLEMENTAL PHASE II ENVIRONMENTAL  
SCREENING CHARACTERIZATION  
(PESTICIDES ONLY)**

**LOT 39 OF TRACT 7240, 10.01-ACRE SITE, APN 290-190-083  
PROPOSED GLEN IVY SENIOR COMMUNITY  
AND RETAIL/COMMERCIAL PROJECT, TEMESCAL VALLEY AREA  
RIVERSIDE COUNTY, CALIFORNIA 92883  
CUP200011: PHASE II REVIEW**

**GeoSoils, Inc.**  
FOR

**GLEN IVY PROPERTIES, LLC  
34145 PACIFIC COAST HWY #621  
DANA POINT, CALIFORNIA 92629**

**W.O. E7731.1-SC**

**MARCH 15, 2022**



**Geotechnical • Geologic • Coastal • Environmental**

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March 15, 2022

W.O. E7731.1-SC

**Glen Ivy Properties, LLC**

34145 Pacific Coast Hwy #621  
Dana Point, California 92629

Attention: Mr. Benjamin Day

Subject: Supplemental Phase II Environmental Screening Characterization (Pesticides Only), Lot 39 of Tract 7240, 10.01-Acre Site, APN 290-190-083, Proposed Glen Ivy Senior Community and Retail/Commercial Project, Temescal Valley Area, Riverside County, California 92883, CUP200011: Phase II Review

Dear Mr. Day:

In accordance with your request and per the recent County of Riverside Department of Environmental Health email review comments (RCDEH, 2022), GeoSoils, Inc. (GSI) is presenting the results of our supplemental Phase II environmental screening characterization for Lot 39 of Tract 7240 (Glen Ivy Senior Community and Retail/Commercial project), in the Temescal Valley area of Riverside County, California. The purpose of the supplemental Phase II step-out soil sampling and testing is to address recent review comments by the Riverside County Department of Environmental Health (RCDEH, 2022), and provide additional soils testing at the location of sample HA-1 @ 2', and the surrounding vicinity, for Organochlorine Pesticide (OCP) contamination, as identified within our referenced Phase II Environmental Screening Characterization for the project (GSI, 2021a).

**SITE LOCATION AND BACKGROUND**

The subject property is located on the southwest corner of the intersection of Temescal Canyon Road and Trilogy Parkway in the unincorporated area of Temescal Valley, Riverside County, California. The property (APN 290-190-083) consists of an irregularly-shaped parcel, totaling approximately 10.01 acres. With the exception of previous flood control improvements (perimeter grubbing and fence line) and localized landscape improvements on the southern margin and northern portion of the property, respectively, the site is generally vacant and undeveloped.



As indicated in the recent email correspondence by the RCDEH (2022): “We have a condition at grading that we will be requiring additional sampling at one of the locations for pesticides,” and “...they can do the sampling now and have us review so that it will not be a condition that needs to be cleared later.” As such, the purpose of our supplemental Phase II environmental testing is to respond to the recent RCDEH (2022) comments, and provide supplemental step-out screening test data regarding soils potentially containing pesticides at the location of our previous hand-auger boring No. 1 (HA-1 @ 2' [GSI, 2021a]), and the surrounding vicinity, that may be present within the undocumented artificial fill on the property, prior to site grading activities.

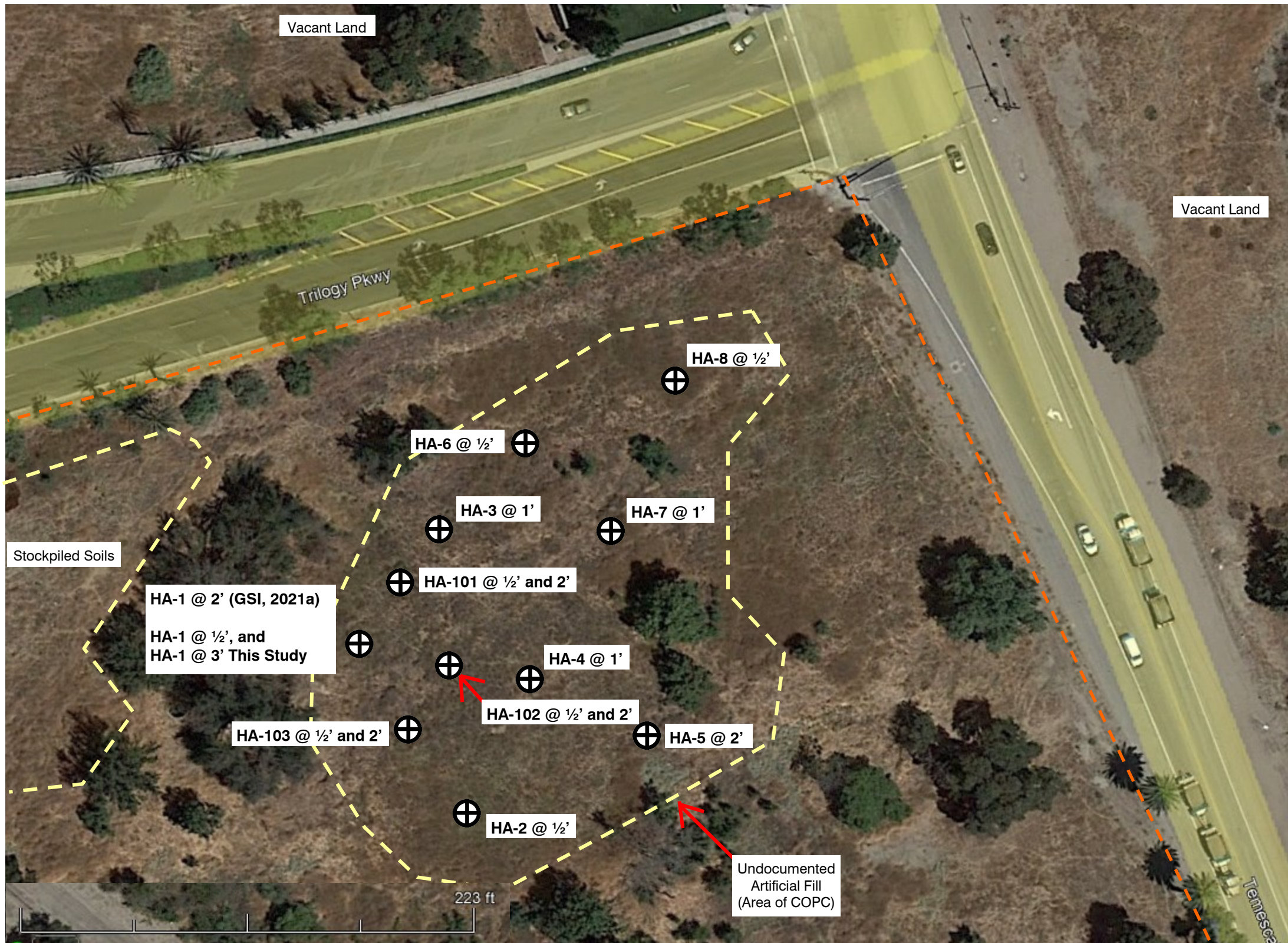
## **ENVIRONMENTAL TESTING**

As discussed above, GSI conducted supplemental environmental testing to evaluate the undocumented artificial fill onsite for further pesticide contamination, to the extent practical, at the location of our previous hand-auger boring No. 1 (HA-1 @ 2' [GSI, 2021a]), and the surrounding vicinity. On February 24, 2022, GSI collected eight (8) additional soil samples onsite, at varying depths. To further evaluate and define the aerial limits (vertical and horizontal) of the soil contamination encountered in the vicinity of sample HA-1 @ 2' (GSI, 2021a), supplemental samples were collected at ½ foot and 3 feet in depth, to establish the vertical limits of the soil contamination encountered at this location. In addition, step-out samples were collected at ½ foot and 2 feet in depth, between sample HA-1 @ 2' and samples HA-3 @ 1', HA-4 @ 1', and HA-2 @ ½', to establish the horizontal limits of the soil contamination previously encountered. The approximate locations of the supplemental samples obtained are provided on Figure 1 (Sample Location Map).


The soil sampling and analytical laboratory testing for this study was conducted in general accordance with the California Department of Toxic Substances Control (DTSC, 2013), and the DTSC (2001) information advisory - clean imported fill material. The sampling equipment was cleaned, prior to, and after each sampling event following appropriate protocol to minimize the likelihood of cross-contamination and to minimize the potential for false positives in the soil samples analyzed. Soil samples were collected at selected locations and depths, logged and placed in glass jars, labeled, and kept in a refrigerated environment pending delivery to the laboratory. Subsequent to completed field work, the soil samples were immediately delivered to the Eurofins/Calscience laboratory in Garden Grove to be analyzed for Organochlorine Pesticides (OCPs) utilizing EPA Test Method 8081A, under proper chain-of-custody protocol.

It should be noted that there was no visual or olfactory evidence of odors and/or soil staining within any of the soils materials during our February 24, 2022 sampling event. The pertinent findings from the supplemental environmental soils sampling event conducted, are provided below:





**GSI LEGEND**

- - - Approximate Boundary of property Under the Purview of this Report.
-  Approximate Location of Hand-Auger Boring Sample Location.
- HA-103 @ 1/2' and 2'**



**ALL LOCATIONS ARE APPROXIMATE**

*This document or e-file is not part of the Construction Documents and should not be relied upon as being an accurate depiction of design.*

**Base Map: Google Earth Pro, 2022**



Figure 1

**SAMPLE LOCATION MAP**

W.O. E7731.1-SC	DATE: 03/22	SCALE: See Bar Scale
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## **ANALYTICAL TESTING RESULTS**

Supplemental sampling and analytical testing of the soil samples collected from the undocumented artificial fill onsite, revealed that concentrations of Organochlorine Pesticides (OCPs) were not-detected at the laboratory reporting limits (i.e., were non-detect) in all samples obtained.

## **CONCLUSIONS AND RECOMMENDATIONS**

### **Conclusions**

Based upon the information obtained during the course of this screening characterization study, GSI presents the following summary of findings and conclusions:

1. Concentrations of Organochlorine Pesticides (OCPs) were not-detected at the laboratory reporting limits (i.e., were non-detect) in all samples obtained. Therefore, based on the above, OCPs are not considered an environmental constraint.
2. Based on our observations and the environmental sampling conducted within Lot 39 of Tract 7240 (CUP200011), the laboratory analytical testing conducted for this, and our previous study (GSI, 2021a), and our analysis, the undocumented artificial fill materials onsite appear suitable for residential and commercial use applications from an environmental viewpoint.

### **Recommendations**

- Additional soil screening of the deeper undocumented artificial fill materials should be performed during site grading activities, for evidence of staining and odors, in accordance with our referenced soil management plan (GSI, 2021b).
- Based upon the information collected by GSI during this screening characterization study, further studies or action, other than the above, are not recommended from an environmental viewpoint, at this time.

## **LIMITATIONS AND EXCEPTIONS**

This supplemental screening characterization study does not include any of the following:

- Geotechnical evaluation of the site (provided under separate cover);
- Phase I Environmental Site Assessment (provided under separate cover);
- Water sampling and analyses;

- Consideration of possible future contamination of the property from adjacent or surrounding facilities or properties; and,
- Radon gas, mold, methane, electromagnetic, sludge, or biologic evaluation(s).

### **Special Terms and Conditions**

This report is intended for the use of the Client (Glen Ivy Properties, LLC). This report is based upon field conditions observed during our environmental soil sampling event conducted on February 24, 2022. Site conditions may change from time to time, in response to natural and human-made conditions. The contents should not be relied upon by any party other than the aforementioned without the express written consent of GSI. This report does not consider possible future contamination of the site from adjacent or surrounding facilities or properties and/or additional unauthorized spills and/or leaks. All judgments apply only to conditions observed by GSI during the environmental soil testing performed in preparation of this report.

### **LIMITATIONS**


GSI has performed the services for this project in accordance with the terms of a contract between GSI and Client and in accordance with current professional standards for investigations of this type. The conclusions presented in this report are based on the information collected during the study, the present understanding of the site conditions, and professional judgment. The interpretations and recommendations of GSI are based solely on such information, and/or information supplied by Client. Findings of this limited study, based on data provided by others, carries no warranty, express or implied, as a result of the usage of such data.

It is possible that future investigations may reveal additional conditions or variations of the current data which may require the current conclusions and recommendations to be reevaluated. As a result, GSI makes no warranty, either express or implied, as to its findings, opinions, recommendations, specifications, or professional advice except that they were promulgated after being prepared in accordance with generally accepted standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. The information in this report is relevant to the date of the site work and should not be relied on to represent conditions at any later date. Facts, conditions, and acceptable risk factors change with time, accordingly, this report should be viewed within this context.

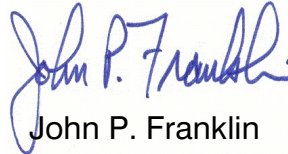
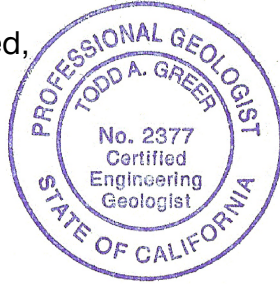
We appreciate the opportunity to be of service to you. If you have any questions pertaining to this report or any other matter, please do not hesitate to call us at (951) 471-0700.

Respectfully submitted,

**GeoSoils, Inc.**



Todd A. Greer  
Engineering Geologist, CEG 2377



John P. Franklin  
Registered Environmental Property  
Assessor, NREP 461992, CEG 1340



TAG/JPF/sh

Attachments: Appendix A - References  
Appendix B - Laboratory Analytical Results

Distribution: (1) Addressee (via email PDF)

**APPENDIX A**  
**REFERENCES**

## APPENDIX A

### REFERENCES

- Bradford, G.R., Change, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and Wright, H., 1996, Background concentrations of trace and major elements in California soils, in Kearney Foundation special report, dated March.
- California Department of Toxic Substances Control (DTSC), 2020 Human Health Risk Assessment (HHRA), Note Number 11, Southern California Ambient Arsenic Screening Level, dated December.
- \_\_\_\_\_, 2013, Drilling, logging, and sampling at contaminated sites, dated June.
- \_\_\_\_\_, 2009, Arsenic strategies, determination of arsenic remediation, development of arsenic cleanup goals, dated January 16.
- \_\_\_\_\_, 2001, Information advisory - clean imported fill material, dated October.
- California Regional Water Quality Control Board (RWQCB), 2019a, Environmental screening levels, San Francisco Bay Regional Water Quality Control Board, summary of soil ESLs, revision 2.
- \_\_\_\_\_, 2019b, User's guide: derivation and application of environmental screening levels (ESLs), interim final revision 1.
- Eurofins Calscience, LLC, 2022, Analytical report for: Glen Ivy Properties, Job ID: 570-85737-1, dated March 10.
- \_\_\_\_\_, 2021, Analytical report for: Glen Ivy Properties, Job ID: 570-73610-1, dated November 9.
- Chernoff, G., Bosan, W., and Oudiz, D., 2008, Determination of Southern California regional background Arsenic concentration in soil, California Department of Toxic Substances Control, Society of Toxicology, dated March.
- GeoSoils, Inc. 2021a, Phase II environmental screening characterization (pesticides, herbicides, and heavy metals), Lot 39 of Tract 7240, ±10.01-acre site, APN 290-190-083, proposed Glen Ivy senior community and retail/commercial project, Temescal Valley area, Riverside County, California 92883, CUP200011: Phase I review, W.O. E7731.1-SC, dated November 15.
- \_\_\_\_\_, 2021b, Soil management plan and response to Riverside County Department of Environmental Health Comments, Lot 39 of Tract 7240, ±10.01-acre site, APN 290-190-083, proposed Glen Ivy Senior Community and Retail/Commercial project, Temescal Valley area, Riverside County, California 92883, CUP200011: Phase I Review, W.O. E7731-SC, dated September 8.



\_\_\_\_\_, 2020, Phase I environmental site assessment, Lot 39 of Tract 7240, ± 10.01-acre site (APN 290-190-083), proposed Glen Ivy Senior Community and Retail/Commercial project, Temescal Valley area, Riverside County, California 92883, W.O. E7731-SC, dated December 18.

Riverside County Department of Environmental Health (RCDEH), 2022, RE: CUP200011 Phase II Review, email correspondence dated February 1.

\_\_\_\_\_, 2021, RE: CUP200011 Phase I Review, email correspondence dated September 22.

**APPENDIX B**

**LABORATORY ANALYTICAL RESULTS**

## ANALYTICAL REPORT

Eurofins Calscience  
2841 Dow Avenue, Suite 100  
Tustin, CA 92780  
Tel: (714)895-5494

Laboratory Job ID: 570-85737-1  
Client Project/Site: Glen Ivy Properties

For:  
GeoSoils, Inc  
18451 Collier Avenue, Suite A  
Lake Elsinore, California 92530

Attn: Todd Greer



Authorized for release by:  
3/10/2022 4:19:58 PM

Terri Chang, Project Manager I  
(714)895-5494  
[Terri.Chang@eurofinset.com](mailto:Terri.Chang@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

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**Job ID: 570-85737-1**

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**Laboratory: Eurofins Calscience**

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**Narrative**

**Job Narrative**  
**570-85737-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/24/2022 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1° C.

**GC Semi VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

<b>Client Sample ID: HA-1 @ 1/2'</b>	<b>Lab Sample ID: 570-85737-1</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: HA-1 @ 3'</b>	<b>Lab Sample ID: 570-85737-2</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: HA-101 @ 1/2'</b>	<b>Lab Sample ID: 570-85737-3</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: HA-101 @ 2'</b>	<b>Lab Sample ID: 570-85737-4</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: HA-102 @ 1/2'</b>	<b>Lab Sample ID: 570-85737-5</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: HA-102 @ 2'</b>	<b>Lab Sample ID: 570-85737-6</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: HA-103 @ 1/2'</b>	<b>Lab Sample ID: 570-85737-7</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: HA-103 @ 2'</b>	<b>Lab Sample ID: 570-85737-8</b>
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Calscience



# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: HA-1 @ 1/2'**  
**Date Collected: 02/24/22 11:50**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Methoxychlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:01	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	90		38 - 148	02/28/22 11:31	03/02/22 17:01	1
DCB Decachlorobiphenyl (Surr)	85		37 - 151	02/28/22 11:31	03/02/22 17:01	1

**Client Sample ID: HA-1 @ 3'**  
**Date Collected: 02/24/22 12:24**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1

Euofins Calscience

# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: HA-1 @ 3'**  
**Date Collected: 02/24/22 12:24**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Methoxychlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	42		38 - 148			02/28/22 11:31	03/02/22 16:16	1
<i>DCB Decachlorobiphenyl (Surr)</i>	39		37 - 151			02/28/22 11:31	03/02/22 16:16	1

**Client Sample ID: HA-101 @ 1/2'**  
**Date Collected: 02/24/22 12:40**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Methoxychlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	104		38 - 148			02/28/22 11:31	03/02/22 17:16	1
<i>DCB Decachlorobiphenyl (Surr)</i>	97		37 - 151			02/28/22 11:31	03/02/22 17:16	1

**Client Sample ID: HA-101 @ 2'**  
**Date Collected: 02/24/22 12:58**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: HA-101 @ 2'**  
**Date Collected: 02/24/22 12:58**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Methoxychlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 17:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene (Surr)</i>	106		38 - 148			02/28/22 11:31	03/02/22 17:31	1
<i>DCB Decachlorobiphenyl (Surr)</i>	93		37 - 151			02/28/22 11:31	03/02/22 17:31	1

**Client Sample ID: HA-102 @ 1/2'**  
**Date Collected: 02/24/22 13:18**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Methoxychlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 17:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene (Surr)</i>	80		38 - 148			02/28/22 11:31	03/02/22 17:46	1
<i>DCB Decachlorobiphenyl (Surr)</i>	81		37 - 151			02/28/22 11:31	03/02/22 17:46	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Client Sample ID: HA-102 @ 2'**  
**Date Collected: 02/24/22 13:36**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Methoxychlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/03/22 09:28	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/03/22 09:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	101		38 - 148	02/28/22 11:31	03/03/22 09:28	1
DCB Decachlorobiphenyl (Surr)	93		37 - 151	02/28/22 11:31	03/03/22 09:28	1

**Client Sample ID: HA-103 @ 1/2'**  
**Date Collected: 02/24/22 13:56**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1

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# Client Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Client Sample ID: HA-103 @ 1/2'**

**Date Collected: 02/24/22 13:56**

**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-7**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Methoxychlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 19:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	101		38 - 148			02/28/22 11:31	03/02/22 19:16	1
<i>DCB Decachlorobiphenyl (Surr)</i>	92		37 - 151			02/28/22 11:31	03/02/22 19:16	1

**Client Sample ID: HA-103 @ 2'**

**Date Collected: 02/24/22 14:19**

**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-8**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Methoxychlor	ND	*+	0.0050	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/08/22 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene (Surr)</i>	95		38 - 148			02/28/22 11:31	03/08/22 23:46	1
<i>DCB Decachlorobiphenyl (Surr)</i>	84		37 - 151			02/28/22 11:31	03/08/22 23:46	1

# Surrogate Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	DCB1
		(38-148)	(37-151)
570-85737-1	HA-1 @ 1/2'	90	85
570-85737-2	HA-1 @ 3'	42	39
570-85737-3	HA-101 @ 1/2'	104	97
570-85737-4	HA-101 @ 2'	106	93
570-85737-5	HA-102 @ 1/2'	80	81
570-85737-6	HA-102 @ 2'	101	93
570-85737-7	HA-103 @ 1/2'	101	92
570-85737-8	HA-103 @ 2'	95	84
LCS 570-216013/2-A	Lab Control Sample	93	91
LCSD 570-216013/3-A	Lab Control Sample Dup	94	94
MB 570-216013/1-A	Method Blank	120	103

#### Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 570-216013/1-A**  
**Matrix: Solid**  
**Analysis Batch: 216466**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 216013**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
4,4'-DDD	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
4,4'-DDE	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
4,4'-DDT	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Aldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
alpha-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
alpha-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
beta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Chlordane	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
delta-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Dieldrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Endosulfan I	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Endosulfan II	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Endosulfan sulfate	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Endrin	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Endrin aldehyde	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Endrin ketone	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
gamma-Chlordane	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
gamma-BHC	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Heptachlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Heptachlor epoxide	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Methoxychlor	ND		0.0050	mg/Kg		02/28/22 11:31	03/02/22 13:46	1
Toxaphene	ND		0.025	mg/Kg		02/28/22 11:31	03/02/22 13:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene (Surr)	120		38 - 148	02/28/22 11:31	03/02/22 13:46	1
DCB Decachlorobiphenyl (Surr)	103		37 - 151	02/28/22 11:31	03/02/22 13:46	1

**Lab Sample ID: LCS 570-216013/2-A**  
**Matrix: Solid**  
**Analysis Batch: 216466**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 216013**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
4,4'-DDD	0.0250	0.03080		mg/Kg		123	54 - 154
4,4'-DDE	0.0250	0.03073		mg/Kg		123	51 - 149
4,4'-DDT	0.0250	0.03678		mg/Kg		147	39 - 152
Aldrin	0.0250	0.02702		mg/Kg		108	52 - 138
alpha-BHC	0.0250	0.02735		mg/Kg		109	51 - 140
alpha-Chlordane	0.0250	0.02877		mg/Kg		115	53 - 141
beta-BHC	0.0250	0.02705		mg/Kg		108	53 - 141
delta-BHC	0.0250	0.02943		mg/Kg		118	20 - 132
Dieldrin	0.0250	0.02854		mg/Kg		114	52 - 144
Endosulfan I	0.0250	0.02823		mg/Kg		113	49 - 139
Endosulfan II	0.0250	0.02777		mg/Kg		111	51 - 150
Endosulfan sulfate	0.0250	0.02652	p	mg/Kg		106	45 - 139
Endrin	0.0250	0.03361		mg/Kg		134	53 - 151
Endrin aldehyde	0.0250	0.03044		mg/Kg		122	31 - 146
gamma-Chlordane	0.0250	0.02852		mg/Kg		114	46 - 156
gamma-BHC	0.0250	0.02742		mg/Kg		110	53 - 141

Eurofins Calscience



# QC Sample Results

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 570-216013/2-A**  
**Matrix: Solid**  
**Analysis Batch: 216466**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 216013**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.0250	0.02828		mg/Kg		113	52 - 144
Heptachlor epoxide	0.0250	0.02712		mg/Kg		108	54 - 141
Methoxychlor	0.0250	0.02318	p	mg/Kg		93	47 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	93		38 - 148
DCB Decachlorobiphenyl (Surr)	91		37 - 151

**Lab Sample ID: LCSD 570-216013/3-A**  
**Matrix: Solid**  
**Analysis Batch: 216466**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 216013**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
4,4'-DDD	0.0250	0.03129		mg/Kg		125	54 - 154	2	30
4,4'-DDE	0.0250	0.03134		mg/Kg		125	51 - 149	2	28
4,4'-DDT	0.0250	0.03391		mg/Kg		136	39 - 152	8	31
Aldrin	0.0250	0.02746		mg/Kg		110	52 - 138	2	30
alpha-BHC	0.0250	0.02753		mg/Kg		110	51 - 140	1	29
alpha-Chlordane	0.0250	0.02919		mg/Kg		117	53 - 141	1	28
beta-BHC	0.0250	0.02754		mg/Kg		110	53 - 141	2	29
delta-BHC	0.0250	0.02989		mg/Kg		120	20 - 132	2	40
Dieldrin	0.0250	0.02911		mg/Kg		116	52 - 144	2	28
Endosulfan I	0.0250	0.02881		mg/Kg		115	49 - 139	2	28
Endosulfan II	0.0250	0.02797		mg/Kg		112	51 - 150	1	29
Endosulfan sulfate	0.0250	0.02712	p	mg/Kg		108	45 - 139	2	30
Endrin	0.0250	0.03204		mg/Kg		128	53 - 151	5	29
Endrin aldehyde	0.0250	0.03083		mg/Kg		123	31 - 146	1	40
gamma-Chlordane	0.0250	0.02915		mg/Kg		117	46 - 156	2	39
gamma-BHC	0.0250	0.02766		mg/Kg		111	53 - 141	1	29
Heptachlor	0.0250	0.02833		mg/Kg		113	52 - 144	0	29
Heptachlor epoxide	0.0250	0.02758		mg/Kg		110	54 - 141	2	29
Methoxychlor	0.0250	0.02419	p	mg/Kg		97	47 - 148	4	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	94		38 - 148
DCB Decachlorobiphenyl (Surr)	94		37 - 151

# QC Association Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## GC Semi VOA

### Prep Batch: 216013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85737-1	HA-1 @ 1/2'	Total/NA	Solid	3546	
570-85737-2	HA-1 @ 3'	Total/NA	Solid	3546	
570-85737-3	HA-101 @ 1/2'	Total/NA	Solid	3546	
570-85737-4	HA-101 @ 2'	Total/NA	Solid	3546	
570-85737-5	HA-102 @ 1/2'	Total/NA	Solid	3546	
570-85737-6	HA-102 @ 2'	Total/NA	Solid	3546	
570-85737-7	HA-103 @ 1/2'	Total/NA	Solid	3546	
570-85737-8	HA-103 @ 2'	Total/NA	Solid	3546	
MB 570-216013/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-216013/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-216013/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

### Analysis Batch: 216466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85737-1	HA-1 @ 1/2'	Total/NA	Solid	8081A	216013
570-85737-2	HA-1 @ 3'	Total/NA	Solid	8081A	216013
570-85737-3	HA-101 @ 1/2'	Total/NA	Solid	8081A	216013
570-85737-4	HA-101 @ 2'	Total/NA	Solid	8081A	216013
570-85737-5	HA-102 @ 1/2'	Total/NA	Solid	8081A	216013
570-85737-7	HA-103 @ 1/2'	Total/NA	Solid	8081A	216013
MB 570-216013/1-A	Method Blank	Total/NA	Solid	8081A	216013
LCS 570-216013/2-A	Lab Control Sample	Total/NA	Solid	8081A	216013
LCSD 570-216013/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	216013

### Analysis Batch: 216758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85737-6	HA-102 @ 2'	Total/NA	Solid	8081A	216013

### Analysis Batch: 217847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-85737-8	HA-103 @ 2'	Total/NA	Solid	8081A	216013

# Lab Chronicle

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

**Client Sample ID: HA-1 @ 1/2'**

**Date Collected: 02/24/22 11:50**

**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.13 g	10 mL	216013	02/28/22 11:31	USUL	ECL 1
Total/NA	Analysis	8081A		1			216466	03/02/22 17:01	UHHN	ECL 4
Instrument ID: GC52A										

**Client Sample ID: HA-1 @ 3'**

**Date Collected: 02/24/22 12:24**

**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.09 g	10 mL	216013	02/28/22 11:31	USUL	ECL 1
Total/NA	Analysis	8081A		1			216466	03/02/22 16:16	UHHN	ECL 4
Instrument ID: GC52A										

**Client Sample ID: HA-101 @ 1/2'**

**Date Collected: 02/24/22 12:40**

**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-3**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.12 g	10 mL	216013	02/28/22 11:31	USUL	ECL 1
Total/NA	Analysis	8081A		1			216466	03/02/22 17:16	UHHN	ECL 4
Instrument ID: GC52A										

**Client Sample ID: HA-101 @ 2'**

**Date Collected: 02/24/22 12:58**

**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.17 g	10 mL	216013	02/28/22 11:31	USUL	ECL 1
Total/NA	Analysis	8081A		1			216466	03/02/22 17:31	UHHN	ECL 4
Instrument ID: GC52A										

**Client Sample ID: HA-102 @ 1/2'**

**Date Collected: 02/24/22 13:18**

**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-5**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.08 g	10 mL	216013	02/28/22 11:31	USUL	ECL 1
Total/NA	Analysis	8081A		1			216466	03/02/22 17:46	UHHN	ECL 4
Instrument ID: GC52A										

# Lab Chronicle

Client: GeoSoils, Inc  
 Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

**Client Sample ID: HA-102 @ 2'**  
**Date Collected: 02/24/22 13:36**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-6**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.15 g	10 mL	216013	02/28/22 11:31	USUL	ECL 1
Total/NA	Analysis	8081A		1			216758	03/03/22 09:28	UJ3K	ECL 4
Instrument ID: GC52A										

**Client Sample ID: HA-103 @ 1/2'**  
**Date Collected: 02/24/22 13:56**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	10 mL	216013	02/28/22 11:31	USUL	ECL 1
Total/NA	Analysis	8081A		1			216466	03/02/22 19:16	UHHN	ECL 4
Instrument ID: GC52A										

**Client Sample ID: HA-103 @ 2'**  
**Date Collected: 02/24/22 14:19**  
**Date Received: 02/24/22 15:17**

**Lab Sample ID: 570-85737-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.04 g	10 mL	216013	02/28/22 11:31	USUL	ECL 1
Total/NA	Analysis	8081A		1			217847	03/08/22 23:46	UHHN	ECL 4
Instrument ID: GC52A										

**Laboratory References:**

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494  
 ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Accreditation/Certification Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

## Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22
Oregon	NELAP	CA300001	01-31-23

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# Method Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	ECL 4
3546	Microwave Extraction	SW846	ECL 1

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 1 = Eurofins Calscience Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



# Sample Summary

Client: GeoSoils, Inc  
Project/Site: Glen Ivy Properties

Job ID: 570-85737-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-85737-1	HA-1 @ 1/2'	Solid	02/24/22 11:50	02/24/22 15:17
570-85737-2	HA-1 @ 3'	Solid	02/24/22 12:24	02/24/22 15:17
570-85737-3	HA-101 @ 1/2'	Solid	02/24/22 12:40	02/24/22 15:17
570-85737-4	HA-101 @ 2'	Solid	02/24/22 12:58	02/24/22 15:17
570-85737-5	HA-102 @ 1/2'	Solid	02/24/22 13:18	02/24/22 15:17
570-85737-6	HA-102 @ 2'	Solid	02/24/22 13:36	02/24/22 15:17
570-85737-7	HA-103 @ 1/2'	Solid	02/24/22 13:56	02/24/22 15:17
570-85737-8	HA-103 @ 2'	Solid	02/24/22 14:19	02/24/22 15:17

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Calscience

7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information contact us26\_sales@eurofins.com or call us.

LABORATORY CLIENT: GeoSoils, Inc. ADDRESS: 18451 Collier Ave., Suite A STATE: CA ZIP: 92530

CITY: Lake Elsinore, CA E-MAIL: tgreer@geosoils, Inc.com

TEL: 951-471-0700 TURNAROUND TIME (Rush surcharges may apply to any TAT not \*STANDARD):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

ADD  COELT EDF  OTHER SPECIAL INSTRUCTIONS

CLIENT PROJECT NAME / NO: Glen Ivy Properties P.O. NO: W.O. 7731.1-SC

PROJECT CONTACT: Todd Greer LAB CONTACT OR QUOTE NO:

GLOBAL ID: LOG CODE: SAMPLER(S) (PRINT): Todd A. Greer = TAG

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO OF CONT	REQUESTED ANALYSES		
		DATE	TIME			Unpreserved	Preserved	Field Filtered
1	HA-101e 1/2'	2/24/22	11:50A	Soil	1			
2	HA-101e 3'		12:24P		1			
3	HA-101e 1/2'		12:40P		1			
4	HA-101e 2'		12:58P		1			
5	HA-102e 1/2'		1:18P		1			
6	HA-102e 2'		1:36P		1			
7	HA-103e 1/2'		1:56P		1			
8	HA-103e 2'		2:19P		1			

TPH  C6-C36  C6-C44  
 TPH  DRO  
 TPH  GRO  
 BTEX / MTBE  8260

VOCs (8260)  
 Oxygenates (8260)  
 Prep (5035)  En Core  Terra Core  
 SVOCs (8270)  
 Pesticides (8081) (OC.P.s)  
 PCBs (8082)  
 PAHs  8270  8270 SIM  
 T22 Metals  6010/747X  6020/747X  
 Cr(VI)  7196  7199  2186

Requested Analyzes: Please check box or fill in blank as needed

Relinquished by (Signature): [Signature] Date: 2/24/22 Time: 3:17 pm

Relinquished by (Signature): [Signature] Date: 2/24/22 Time:

Relinquished by (Signature): [Signature] Date: 2/24/22 Time:

Relinquished by (Signature): [Signature] Date: 2/24/22 Time:

Relinquished by (Signature): [Signature] Date: 2/24/22 Time:

Relinquished by (Signature): [Signature] Date: 2/24/22 Time:

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Relinquished by (Signature): [Signature] Date: 2/24/22 Time:

Relinquished by (Signature): [Signature] Date: 2/24/22 Time:

2.674.1 SCC



85737

CHAIN-OF-CUSTODY RECORD

Date: 2/24/2022  
Page: 1 of 1



570-85737 Chain of Custody

# Login Sample Receipt Checklist

Client: GeoSoils, Inc

Job Number: 570-85737-1

**Login Number: 85737**

**List Number: 1**

**Creator: Ortiz-Luis, Michael**

**List Source: Eurofins Calscience**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	