Appendix C

Soil Sampling and Analysis Report (2018) and Asbestos and Lead Survey Report (2001)

November 1, 2018

Mr. Michael Bishop
Environmental Project Manager
Alameda County
1401 Lakeside Drive, Suite 800
Oakland, CA 94612

RE: Soil Sampling and Analyses
White Cotton Cottage
Fairmont Hospital Campus
San Leandro, CA

Dear Mr. Bishop:

Terracon Consultants, Inc. (Terracon) is pleased to provide this letter presenting the results of the evaluation of lead and pesticide concentrations in soil at the above-referenced site. Terracon understands that the County is seeking to evaluate whether soils adjacent to the building have been impacted by lead from the peeling exterior paint and historical application of pesticides.

Terracon performed the following tasks:

- Collected soil samples from 0-6" and 6-12" below ground surface (bgs). Some samples were not collected or collected at different depths because of surface obstructions. Sampling locations and depths are presented on Table 1 and shown on Exhibit 1;
- Collected samples at the drip line of the building, the approximate midpoint between the building and site perimeter, and the site perimeter;
- Analyzed samples for lead and organochlorine pesticides (OCPs);
- Compared results to Tier 1 Residential Environmental Screening Levels (ESLs) (RWQCB, May 2018); and
- Estimated the amount of soil that may require excavation such that the remaining lead and pesticide concentrations at excavation limits do not exceed ESLs.

Terracon performed these services in accordance with our Standard Services Agreement with County of Alameda, dated August 14, 2017.

Soil samples were collected on the northern, western, and southern sides of the building. Some planned samples were not collected because concrete or asphalt occurred at the ground surface. Samples were collected using a 2.5-inch hand auger, which was decontaminated between sample collection. Samples were transferred to glass jars and stored on ice for transportation to McCampbell Analytical, Inc. (McCampbell) located in Pittsburg, California. The laboratory report and field documentation are included in the attachments.

Table 1 presents details of the sampling, including sample names, depths, and concentrations. The table presents results for those constituents detected above ESLs in at least one sample. Concentrations exceeding ESLs are shown in bold font. Sample intervals were 0-6" and 6-12" bgs. The northern midpoint sample (WCNMID2-8-14) was collected 8-14" bgs because degraded concrete occurred in the upper 8 inches. Exhibit 1 shows sample names and their approximate locations. Perimeter samples were not collected on the northern and western sides of the building because of the presence of asphalt or concrete at the ground surface. Samples were not collected on the east side of the building because surface asphalt extended from the building wall to the perimeter fence.

Results

Lead, Chlordane, and Endosulfan I are the most frequently detected constituents. Lead and Chlordane were detected in all dripline samples above their respective ESLs of 80 and 0.48 mg/kg. Endosulfan I was detected in samples collected on the western side of the building, except in sample WCWDL2-0-6, in three samples from the south side of the building (WCSDL1-6-12 and WCSMID2-0-6 and -6-12) and WCSW-0-6, which is located at the southwest corner of the building. Endosulfan I concentrations ranged from 0.0029 to 0.69 mg/kg. The ESL for Endosulfan I is 0.0046 mg/kg. Dieldrin, Heptachlor Epoxide, and Methoxychlor were infrequently detected above their ESLs in a few samples (Table 1).

The highest concentrations of lead (1,200 mg/kg), Chlordane (10 mg/kg), and Endosulfan I (0.069 mg/kg) were found in dripline samples collected from the western and southern sides of the building. The highest concentrations of these constituents in midpoint samples were 890 mg/kg, 1.1 mg/kg, and 0.29 mg/kg, respectively. These samples were collected from the western side of the site. At most locations, the concentrations were higher in shallow samples. However, concentrations in midpoint samples WCWMID1-6-12 and WCWMID2-6-12 (Table 1) collected on the western side of the building, the concentrations of lead were highest in the samples collected between 6-12". Because of the infrequency of detected results, consistent changes in concentrations with depth are not observed for Dieldrin, Heptachlor, Methoxychlor. The vertical distribution of lead and pesticides to below their respective ESLs has not been defined at all locations.

Table 1 – Concentrations[1] of Constituents Exceeding Tier 1 ESLs[2]

SAMPLE ID	DEPTH (ft)	LEAD [80 mg/kg][3]	CHLORDANE [0.48 mg/kg]	ENDOSULFAN I [0.0046]	DIELDRIN [0.00017 mg/kg]	HEPTACHLOR EPOXIDE [0.00042 mg/kg]	METHOXYCHLOR [1.9 mg/kg]
WCNDL1-0-6	0-6	**210**	**8.4**	ND	ND[4]	ND	ND
WCNDL1-6-12	6-12	**190**	**1.7**	ND	ND	ND	ND
WCSDL1-0-6	0-6	**1200**	**4.1**	ND	**0.074**	ND	ND
WCSDL1-6-12	6-12	**390**	**2.2**	**0.22**	**0.034**	ND	ND
WCWDL1-0-6	0-6	**900**	**10**	**0.69**	ND	ND	ND
WCWDL1-6-12	6-12	**160**	**1.4**	**0.10**	ND	ND	ND
WCWDL2-0-6	0-6	**1100**	**1.7**	ND	ND	ND	ND
WCWDL2-6-12	6-12	**740**	**0.50**	**0.04**	ND	ND	ND
WCNMID2-8-14	8-14	3.3	ND	ND	ND	ND	ND
WCSMID1-0-6	0-6	63	0.033	ND	**0.00048**	ND	ND
WCSMID1-6-12	6-12	3.4	ND	ND	ND	ND	ND
WCSMID2-0-6	0-6	**110**	0.28	**0.029**	ND	ND	ND
WCSMID2-6-12	6-12	31	ND	**0.0098**	ND	ND	ND
WCWMID1-0-6	0-6	**400**	**1.0**	**0.16**	ND	ND	0.025
WCWMID1-6-12	6-12	**890**	**1.1**	**0.11**	ND	ND	ND
WCWMID2-0-6	0-6	**290**	0.28	**0.29**	**0.0065**	**0.0027**	ND
WCWMID2-6-12	6-12	**300**	0.11	**0.011**	ND	ND	ND
WCSW-0-6	0-6	77	0.21	0.0029	ND	**0.002**	ND

Notes:

[1]Concentrations in milligrams per kilogram (mg/kg)

[2]ESL = Environmental Screening Levels (RWQCB, May 2018); Concentrations in bold font greater than Tier 1 ESL

[3][ ] = Tier I ESL

[4]Reporting limits are included in the laboratory report (Attachment 1)

Samples collected 0-6”

WCN – collected on the north side of building

WCS – collected on the south side of the building

NCW – collected on the west side of the building

WCSW – collected southwest of the building

Estimation of Soil Removal Quantity

The estimation is based on the following assumptions:

- The vertical distributions of lead and pesticides to below their respective ESLs have not been defined;
- Soil removal will not occur within the building footprint;
- Soil removal will not occur on the east side of the building where asphalt or concrete extends from the building exterior to approximately the perimeter fence.
- The limits of soil removal to the north, west, and east of the building shown on Exhibit 1 are defined by the building, concentrations near or below the ESLs, and concrete and asphalt at the ground surface (soil removal will not occur below asphalt or concrete);
- Soil removal will not extend beyond the perimeter fence or within the fenced area at the southeast corner of the building for restricting basement access;
- Soil removal will not occur in the extreme corners of the site because they are not adjacent to the building;
- Volume adjustments associated with the sewer line or other subsurface utilities have not been attempted;
- Soil removal area dimensions, depths, and bank cubic yards were estimated using the parameters in Table 2.

- Specific Assumptions for Polygons (Exhibit 1)
  - North –
    - Area of lead and pesticide data from MWNDL1-0-6/-6-12 and WCNMID2-8-14 and the location of the concrete pathway were used to establish the boundaries along the northern building wall; and
    - Maximum depth to concentrations less than ESLs – 3 ft.
  - East – no excavation because asphalt extends from wall to approximate fence line.
  - South-1 and -2
    - Area of lead and pesticide data from WCSDL1-0-6/-6-12, and WCSMID2-6-12 were used to establish the boundaries along the southern portion of the building wall;
    - Surface asphalt or concrete were observed at some scattered locations on the southern side of the building (e.g., adjacent to steps leading to the building); and
    - Maximum depth to concentrations less than ESLs: South-1 – 3.5 ft/South-2 – 3 ft.
  - West Southwest-1 and -2
    - Area of lead and pesticide data from WCWDL2-0-6/-6-12, and WCWMID2-0-6/-6-12, and surface concrete and asphalt, were used

to establish the boundaries along the western portion of the building near the perimeter fence; and

- § Maximum depth to concentrations less than ESLs: Part 1 – 4 ft/Part 2 – 4.0 ft.

- o West Northwest
  - § Area of lead and pesticide data from WCWDL1-0-6/-6-12 and WCWMID1-0-6/6-12, surface concrete and asphalt near the perimeter fence, were used to establish the boundaries along the western portion of the building; and
  - § Maximum depth to concentrations less than Tier I ESLs: 4.0 ft.

Table 2 Area-Specific Calculations

Area	Area to be Excavated (sq. ft)	Depth, (ft)*	Cubic Ft	Cubic Yards	Dimensions (ft)
North	240	3	720	27	40x6x3
East	0	0	0	0	Not applicable
South-1	320	3.5	1120	41	40x8x3.5
South-2	240	3	720	27	40x6x3
West Southwest-1	360	4	1440	53	45x8x4
West Southwest-2*	180	4	720	17	45x4x4
West Northwest	320	4	1280	47	40x8x4
Totals	1340		6000	222	

*Excludes 0.5 ft of overlying asphalt
sq. ft = square feet
Rounded to nearest whole quantities

SUMMARY

Lead, and the two pesticides Chlordane and Endosulfan I, are the most frequently detected constituents. Lead and Chlordane were detected in all dripline samples at concentrations above their respective ESLs of 80 mg/kg and 0.48 mg/kg. When detected, the concentrations of Endosulfan I, Dieldrin, Heptachlor Epoxide, were generally above their ESLs (Table 1). At most locations, the concentrations of lead and the four pesticides were highest in shallow samples. However, the lead concentration in midpoint sample WCWMID1-0-6 was 400 mg/kg (sample depth 0-6” bgs), which is lower than in the deeper sample WCWMID-6-12 (sample depth 6-12” bgs) at 890 mg/kg.

The mode of deposition for lead is most likely from deterioration and deposition of lead-based paint on the ground surface near the dripline. The higher levels of lead on the west side of the building is considered the result of greater sun exposure. The likely source of pesticides is surface application for the control of certain forms of plant or animal life.

The horizontal limits of the areas for soil removal are defined by the distribution of lead and pesticides, and the occurrence of asphalt and concrete in the northern, eastern, and western portions of the site. The horizontal limits shown on Exhibit 1 assume soil removal will not occur east side of the building and the presence of asphalt and concrete would limit deposition under those surfaces. Consequently, the areas shown for soil removal exclude those areas.

As noted above, the vertical distribution of lead and pesticides to below their respective ESLs has not been defined at all locations. The areas and depths of soil removal necessary to achieve ESLs was estimated assuming a maximum excavation depth of 4 ft below ground, as summarized on Table 1. These distances correspond to the approximate decreases with in lead and pesticide concentrations between dripline and midpoint samples.

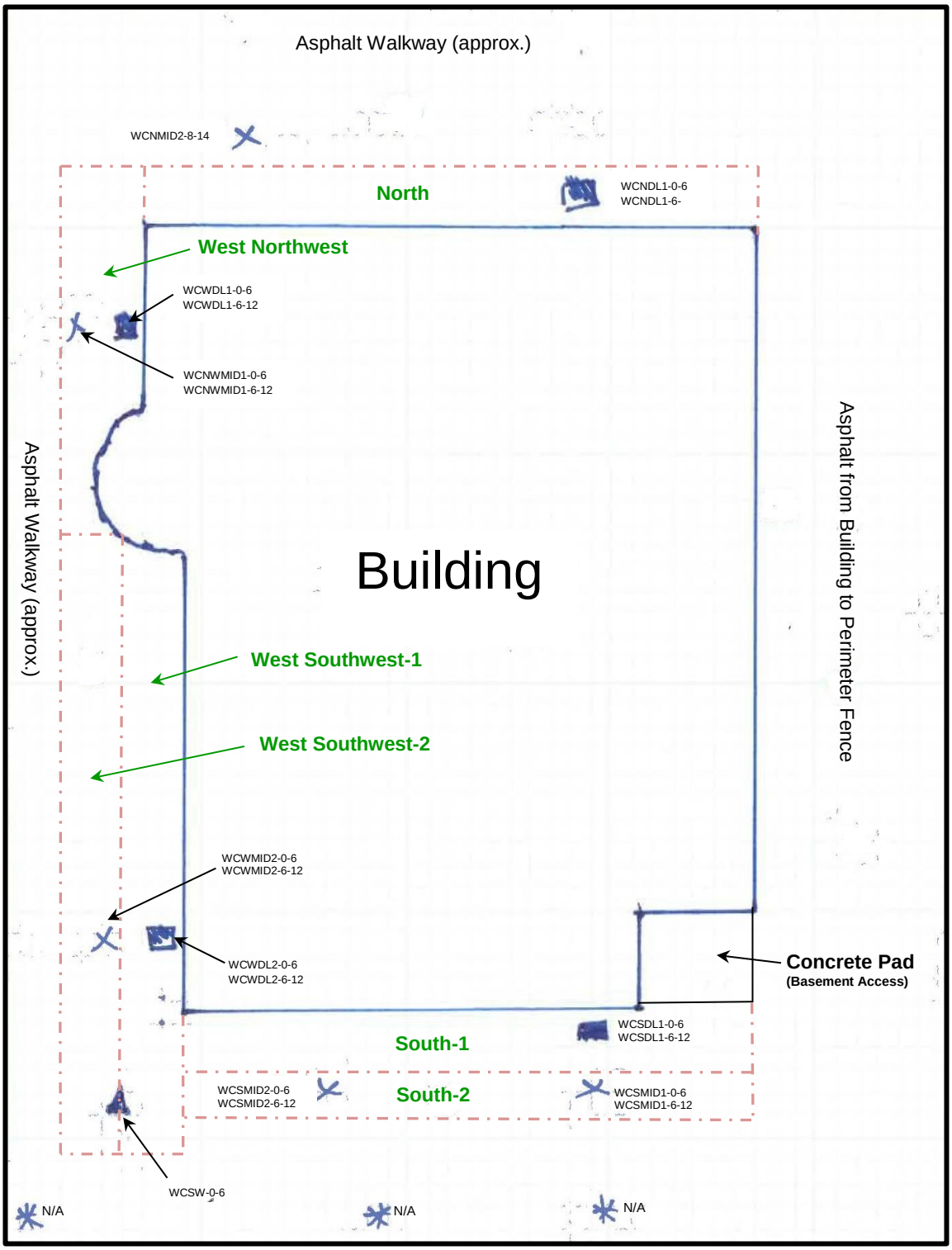
We appreciate the opportunity to be of service to you on this project. In addition to these services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Respectfully,
Terracon Consultants, Inc.

Stephen Farley, P.G. 4672
Senior Scientist

Steffen Steiner
Office Manager

Attachments
Exhibit 1 – Sampling Locations and Soil Removal Areas
Laboratory Report and Field Form



Dripline Sample
Midpoint Sample
Perimeter Sample
Southwest Sample
N/A – Not Analyzed

Note: Preliminary Excavation Areas are Approximate. See Table 2 for Dimensions

Project Manager: SMF	Project No. R1187858	Terracon 1466 66th St Emeryville, CA 94608-1014	**Sampling Locations and Preliminary Excavation Areas White Cotton College Fairmont Hospital Campus**	Exhibit 1
Drawn by: SMF	Scale: 1 = 12			
Checked by: SS	File Name:			
Approved by: SMF	Date: 110/22/18			

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1808E99

Report Created for: Terracon

1466 66th Street
Emeryville, CA 94608

Project Contact: Steve Farley
Project P.O.:
Project: White Cottage

Project Received: 08/31/2018

Analytical Report reviewed & approved for release on 09/10/2018 by:

Angela Rydelius
Laboratory Manager

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

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CA ELAP 1644 ♦ NELAP 4033 ORELAP

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

Project Manager: SMF	Project No.	Terracon 1466 66th St Emeryville, CA 94608-1014	SITE DIAGRAM	Exhibit
Drawn by: SMF	Scale:			2
Checked by: SS	File Name: --			
Approved by: SMF	Date:			

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Glossary of Terms & Qualifier Definitions

Client: Terracon
Project: White Cottage
WorkOrder: 1808E99

Glossary Abbreviation

95% Interval	95% Confident Interval
c	Serial Dilution Percent Difference
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Terracon
Project: White Cottage
WorkOrder: 1808E99

Analytical Qualifiers

P	Agreement between quantitative confirmation results exceed method recommended limits
S	Surrogate spike recovery outside accepted recovery limits
a1	Sample diluted due to matrix interference
a2	Sample diluted due to cluttered chromatogram
c1	Surrogate recovery outside of the control limits due to the dilution of the sample.

Quality Control Qualifiers

F13	Indigenous sample results too high for a representative matrix spike analysis.

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCNDL1-0-6	**1808E99-001A**	**Soil**	**08/29/2018 09:22**	**GC40 09091861.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.10	1,000	09/09/2018 23:46
a-BHC	ND		0.10	1,000	09/09/2018 23:46
b-BHC	ND		0.30	1,000	09/09/2018 23:46
d-BHC	ND		0.20	1,000	09/09/2018 23:46
g-BHC	ND		0.10	1,000	09/09/2018 23:46
Chlordane (Technical)	**8.4**		2.5	1,000	09/09/2018 23:46
a-Chlordane	**0.75**		0.10	1,000	09/09/2018 23:46
g-Chlordane	**0.83**		0.10	1,000	09/09/2018 23:46
p,p-DDD	ND		0.10	1,000	09/09/2018 23:46
p,p-DDE	**0.23**		0.10	1,000	09/09/2018 23:46
p,p-DDT	**0.15**	P	0.10	1,000	09/09/2018 23:46
Dieldrin	ND		0.10	1,000	09/09/2018 23:46
Endosulfan I	ND		0.10	1,000	09/09/2018 23:46
Endosulfan II	ND		0.10	1,000	09/09/2018 23:46
Endosulfan sulfate	ND		0.10	1,000	09/09/2018 23:46
Endrin	ND		0.10	1,000	09/09/2018 23:46
Endrin aldehyde	ND		0.10	1,000	09/09/2018 23:46
Endrin ketone	ND		0.10	1,000	09/09/2018 23:46
Heptachlor	ND		0.10	1,000	09/09/2018 23:46
Heptachlor epoxide	ND		0.10	1,000	09/09/2018 23:46
Hexachlorobenzene	ND		1.0	1,000	09/09/2018 23:46
Hexachlorocyclopentadiene	ND		2.0	1,000	09/09/2018 23:46
Methoxychlor	ND		0.20	1,000	09/09/2018 23:46
Toxaphene	ND		5.0	1,000	09/09/2018 23:46

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	690	S	20-145	09/09/2018 23:46

Analyst(s): KX Analytical Comments: a1,a2,c1

(Cont.)

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCNDL1-6-12	**1808E99-002A**	**Soil**	**08/29/2018 09:22**	**GC40 09091862.d**	**164427**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.020	200	09/09/2018 23:59
a-BHC	ND	0.020	200	09/09/2018 23:59
b-BHC	ND	0.060	200	09/09/2018 23:59
d-BHC	ND	0.040	200	09/09/2018 23:59
g-BHC	ND	0.020	200	09/09/2018 23:59
Chlordane (Technical)	**1.7**	0.50	200	09/09/2018 23:59
a-Chlordane	**0.16**	0.020	200	09/09/2018 23:59
g-Chlordane	**0.17**	0.020	200	09/09/2018 23:59
p,p-DDD	ND	0.020	200	09/09/2018 23:59
p,p-DDE	ND	0.020	200	09/09/2018 23:59
p,p-DDT	**0.024**	0.020	200	09/09/2018 23:59
Dieldrin	ND	0.020	200	09/09/2018 23:59
Endosulfan I	ND	0.020	200	09/09/2018 23:59
Endosulfan II	ND	0.020	200	09/09/2018 23:59
Endosulfan sulfate	ND	0.020	200	09/09/2018 23:59
Endrin	ND	0.020	200	09/09/2018 23:59
Endrin aldehyde	ND	0.020	200	09/09/2018 23:59
Endrin ketone	ND	0.020	200	09/09/2018 23:59
Heptachlor	ND	0.020	200	09/09/2018 23:59
Heptachlor epoxide	ND	0.020	200	09/09/2018 23:59
Hexachlorobenzene	ND	0.20	200	09/09/2018 23:59
Hexachlorocyclopentadiene	ND	0.40	200	09/09/2018 23:59
Methoxychlor	ND	0.040	200	09/09/2018 23:59
Toxaphene	ND	1.0	200	09/09/2018 23:59

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	185	S	20-145	09/09/2018 23:59

Analyst(s): KX Analytical Comments: a1,a2,c1

(Cont.)

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSDL1-0-6	**1808E99-003A**	**Soil**	**08/29/2018 11:15**	**GC40 09091863.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.050	500	09/10/2018 00:13
a-BHC	ND		0.050	500	09/10/2018 00:13
b-BHC	ND		0.15	500	09/10/2018 00:13
d-BHC	ND		0.10	500	09/10/2018 00:13
g-BHC	ND		0.050	500	09/10/2018 00:13
Chlordane (Technical)	**4.1**		1.2	500	09/10/2018 00:13
a-Chlordane	**0.41**		0.050	500	09/10/2018 00:13
g-Chlordane	**0.35**	P	0.050	500	09/10/2018 00:13
p,p-DDD	ND		0.050	500	09/10/2018 00:13
p,p-DDE	**0.35**		0.050	500	09/10/2018 00:13
p,p-DDT	**0.35**		0.050	500	09/10/2018 00:13
Dieldrin	**0.074**		0.050	500	09/10/2018 00:13
Endosulfan I	**0.43**	P	0.050	500	09/10/2018 00:13
Endosulfan II	ND		0.050	500	09/10/2018 00:13
Endosulfan sulfate	ND		0.050	500	09/10/2018 00:13
Endrin	ND		0.050	500	09/10/2018 00:13
Endrin aldehyde	ND		0.050	500	09/10/2018 00:13
Endrin ketone	ND		0.050	500	09/10/2018 00:13
Heptachlor	ND		0.050	500	09/10/2018 00:13
Heptachlor epoxide	ND		0.050	500	09/10/2018 00:13
Hexachlorobenzene	ND		0.50	500	09/10/2018 00:13
Hexachlorocyclopentadiene	ND		1.0	500	09/10/2018 00:13
Methoxychlor	ND		0.10	500	09/10/2018 00:13
Toxaphene	ND		2.5	500	09/10/2018 00:13

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	398	S	20-145	09/10/2018 00:13

Analyst(s): KX Analytical Comments: a1,a2,c1

(Cont.)

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSDL1-6-12	**1808E99-004A**	**Soil**	**08/29/2018 11:20**	**GC40 09091864.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.020	200	09/10/2018 00:27
a-BHC	ND		0.020	200	09/10/2018 00:27
b-BHC	ND		0.060	200	09/10/2018 00:27
d-BHC	ND		0.040	200	09/10/2018 00:27
g-BHC	ND		0.020	200	09/10/2018 00:27
Chlordane (Technical)	**2.2**		0.50	200	09/10/2018 00:27
a-Chlordane	**0.21**		0.020	200	09/10/2018 00:27
g-Chlordane	**0.18**	P	0.020	200	09/10/2018 00:27
p,p-DDD	ND		0.020	200	09/10/2018 00:27
p,p-DDE	**0.20**		0.020	200	09/10/2018 00:27
p,p-DDT	**0.17**		0.020	200	09/10/2018 00:27
Dieldrin	**0.034**		0.020	200	09/10/2018 00:27
Endosulfan I	**0.22**	P	0.020	200	09/10/2018 00:27
Endosulfan II	ND		0.020	200	09/10/2018 00:27
Endosulfan sulfate	ND		0.020	200	09/10/2018 00:27
Endrin	ND		0.020	200	09/10/2018 00:27
Endrin aldehyde	ND		0.020	200	09/10/2018 00:27
Endrin ketone	ND		0.020	200	09/10/2018 00:27
Heptachlor	ND		0.020	200	09/10/2018 00:27
Heptachlor epoxide	ND		0.020	200	09/10/2018 00:27
Hexachlorobenzene	ND		0.20	200	09/10/2018 00:27
Hexachlorocyclopentadiene	ND		0.40	200	09/10/2018 00:27
Methoxychlor	ND		0.040	200	09/10/2018 00:27
Toxaphene	ND		1.0	200	09/10/2018 00:27

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	210	S	20-145	09/10/2018 00:27

Analyst(s): KX Analytical Comments: a1,a2,c1

(Cont.)

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWDL1-0-6	**1808E99-005A**	**Soil**	**08/29/2018 10:33**	**GC40 09091871.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.050	500	09/10/2018 02:05
a-BHC	ND		0.050	500	09/10/2018 02:05
b-BHC	ND		0.15	500	09/10/2018 02:05
d-BHC	ND		0.10	500	09/10/2018 02:05
g-BHC	ND		0.050	500	09/10/2018 02:05
Chlordane (Technical)	**10**		1.2	500	09/10/2018 02:05
a-Chlordane	**1.0**		0.050	500	09/10/2018 02:05
g-Chlordane	**1.0**		0.050	500	09/10/2018 02:05
p,p-DDD	ND		0.050	500	09/10/2018 02:05
p,p-DDE	**0.067**		0.050	500	09/10/2018 02:05
p,p-DDT	**0.25**		0.050	500	09/10/2018 02:05
Dieldrin	ND		0.050	500	09/10/2018 02:05
Endosulfan I	**0.69**	P	0.050	500	09/10/2018 02:05
Endosulfan II	ND		0.050	500	09/10/2018 02:05
Endosulfan sulfate	ND		0.050	500	09/10/2018 02:05
Endrin	ND		0.050	500	09/10/2018 02:05
Endrin aldehyde	ND		0.050	500	09/10/2018 02:05
Endrin ketone	ND		0.050	500	09/10/2018 02:05
Heptachlor	ND		0.050	500	09/10/2018 02:05
Heptachlor epoxide	ND		0.050	500	09/10/2018 02:05
Hexachlorobenzene	ND		0.50	500	09/10/2018 02:05
Hexachlorocyclopentadiene	ND		1.0	500	09/10/2018 02:05
Methoxychlor	ND		0.10	500	09/10/2018 02:05
Toxaphene	ND		2.5	500	09/10/2018 02:05

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	995	S	20-145	09/10/2018 02:05

Analyst(s): KX Analytical Comments: a1,a2,c1

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWDL1-6-12	**1808E99-006A**	**Soil**	**08/29/2018 10:36**	**GC40 09091872.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.020	200	09/10/2018 02:19
a-BHC	ND		0.020	200	09/10/2018 02:19
b-BHC	ND		0.060	200	09/10/2018 02:19
d-BHC	ND		0.040	200	09/10/2018 02:19
g-BHC	ND		0.020	200	09/10/2018 02:19
Chlordane (Technical)	**1.4**		0.50	200	09/10/2018 02:19
a-Chlordane	**0.13**		0.020	200	09/10/2018 02:19
g-Chlordane	**0.13**		0.020	200	09/10/2018 02:19
p,p-DDD	ND		0.020	200	09/10/2018 02:19
p,p-DDE	ND		0.020	200	09/10/2018 02:19
p,p-DDT	**0.038**		0.020	200	09/10/2018 02:19
Dieldrin	ND		0.020	200	09/10/2018 02:19
Endosulfan I	**0.10**	P	0.020	200	09/10/2018 02:19
Endosulfan II	ND		0.020	200	09/10/2018 02:19
Endosulfan sulfate	ND		0.020	200	09/10/2018 02:19
Endrin	ND		0.020	200	09/10/2018 02:19
Endrin aldehyde	ND		0.020	200	09/10/2018 02:19
Endrin ketone	ND		0.020	200	09/10/2018 02:19
Heptachlor	ND		0.020	200	09/10/2018 02:19
Heptachlor epoxide	ND		0.020	200	09/10/2018 02:19
Hexachlorobenzene	ND		0.20	200	09/10/2018 02:19
Hexachlorocyclopentadiene	ND		0.40	200	09/10/2018 02:19
Methoxychlor	ND		0.040	200	09/10/2018 02:19
Toxaphene	ND		1.0	200	09/10/2018 02:19

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	187	S	20-145	09/10/2018 02:19

Analyst(s): KX Analytical Comments: a1,a2,c1

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWDL2-0-6	**1808E99-007A**	**Soil**	**08/29/2018 10:53**	**GC40 09091873.d**	**164427**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.020	200	09/10/2018 02:33
a-BHC	ND	0.020	200	09/10/2018 02:33
b-BHC	ND	0.060	200	09/10/2018 02:33
d-BHC	ND	0.040	200	09/10/2018 02:33
g-BHC	ND	0.020	200	09/10/2018 02:33
Chlordane (Technical)	**1.7**	0.50	200	09/10/2018 02:33
a-Chlordane	**0.17**	0.020	200	09/10/2018 02:33
g-Chlordane	**0.15**	0.020	200	09/10/2018 02:33
p,p-DDD	ND	0.020	200	09/10/2018 02:33
p,p-DDE	ND	0.020	200	09/10/2018 02:33
p,p-DDT	**0.034**	0.020	200	09/10/2018 02:33
Dieldrin	ND	0.020	200	09/10/2018 02:33
Endosulfan I	ND	0.020	200	09/10/2018 02:33
Endosulfan II	ND	0.020	200	09/10/2018 02:33
Endosulfan sulfate	ND	0.020	200	09/10/2018 02:33
Endrin	ND	0.020	200	09/10/2018 02:33
Endrin aldehyde	ND	0.020	200	09/10/2018 02:33
Endrin ketone	ND	0.020	200	09/10/2018 02:33
Heptachlor	ND	0.020	200	09/10/2018 02:33
Heptachlor epoxide	ND	0.020	200	09/10/2018 02:33
Hexachlorobenzene	ND	0.20	200	09/10/2018 02:33
Hexachlorocyclopentadiene	ND	0.40	200	09/10/2018 02:33
Methoxychlor	ND	0.040	200	09/10/2018 02:33
Toxaphene	ND	1.0	200	09/10/2018 02:33

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	234	S	20-145	09/10/2018 02:33

Analyst(s): KX Analytical Comments: a1,a2,c1

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWDL2-6-12	**1808E99-008A**	**Soil**	**08/29/2018 10:53**	**GC40 09091874.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.0050	50	09/10/2018 02:47
a-BHC	ND		0.0050	50	09/10/2018 02:47
b-BHC	ND		0.015	50	09/10/2018 02:47
d-BHC	ND		0.010	50	09/10/2018 02:47
g-BHC	ND		0.0050	50	09/10/2018 02:47
Chlordane (Technical)	**0.50**		0.12	50	09/10/2018 02:47
a-Chlordane	**0.049**		0.0050	50	09/10/2018 02:47
g-Chlordane	**0.046**		0.0050	50	09/10/2018 02:47
p,p-DDD	ND		0.0050	50	09/10/2018 02:47
p,p-DDE	ND		0.0050	50	09/10/2018 02:47
p,p-DDT	**0.0088**		0.0050	50	09/10/2018 02:47
Dieldrin	ND		0.0050	50	09/10/2018 02:47
Endosulfan I	**0.040**	P	0.0050	50	09/10/2018 02:47
Endosulfan II	ND		0.0050	50	09/10/2018 02:47
Endosulfan sulfate	ND		0.0050	50	09/10/2018 02:47
Endrin	ND		0.0050	50	09/10/2018 02:47
Endrin aldehyde	ND		0.0050	50	09/10/2018 02:47
Endrin ketone	ND		0.0050	50	09/10/2018 02:47
Heptachlor	ND		0.0050	50	09/10/2018 02:47
Heptachlor epoxide	ND		0.0050	50	09/10/2018 02:47
Hexachlorobenzene	ND		0.050	50	09/10/2018 02:47
Hexachlorocyclopentadiene	ND		0.10	50	09/10/2018 02:47
Methoxychlor	ND		0.010	50	09/10/2018 02:47
Toxaphene	ND		0.25	50	09/10/2018 02:47

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	136	20-145	09/10/2018 02:47

Analyst(s): KX Analytical Comments: a1,a2

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCNMID2-8-14	**1808E99-009A**	**Soil**	**08/29/2018 09:48**	**GC40 09071829.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.00010	1	09/07/2018 23:21
a-BHC	ND		0.00010	1	09/07/2018 23:21
b-BHC	ND		0.00030	1	09/07/2018 23:21
d-BHC	ND		0.00020	1	09/07/2018 23:21
g-BHC	ND		0.00010	1	09/07/2018 23:21
Chlordane (Technical)	ND		0.0025	1	09/07/2018 23:21
a-Chlordane	**0.00012**		0.00010	1	09/07/2018 23:21
g-Chlordane	**0.00013**	P	0.00010	1	09/07/2018 23:21
p,p-DDD	**0.00032**		0.00010	1	09/07/2018 23:21
p,p-DDE	**0.00013**		0.00010	1	09/07/2018 23:21
p,p-DDT	**0.0014**		0.00010	1	09/07/2018 23:21
Dieldrin	ND		0.00010	1	09/07/2018 23:21
Endosulfan I	ND		0.00010	1	09/07/2018 23:21
Endosulfan II	ND		0.00010	1	09/07/2018 23:21
Endosulfan sulfate	ND		0.00010	1	09/07/2018 23:21
Endrin	ND		0.00010	1	09/07/2018 23:21
Endrin aldehyde	ND		0.00010	1	09/07/2018 23:21
Endrin ketone	ND		0.00010	1	09/07/2018 23:21
Heptachlor	ND		0.00010	1	09/07/2018 23:21
Heptachlor epoxide	ND		0.00010	1	09/07/2018 23:21
Hexachlorobenzene	ND		0.0010	1	09/07/2018 23:21
Hexachlorocyclopentadiene	ND		0.0020	1	09/07/2018 23:21
Methoxychlor	ND		0.00020	1	09/07/2018 23:21
Toxaphene	ND		0.0050	1	09/07/2018 23:21

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	81	20-145	09/07/2018 23:21

Analyst(s): KX

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSMID1-0-6	**1808E99-010A**	**Soil**	**08/29/2018 11:35**	**GC40 09071830.d**	**164427**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	09/07/2018 23:34
a-BHC	ND	0.00010	1	09/07/2018 23:34
b-BHC	ND	0.00030	1	09/07/2018 23:34
d-BHC	ND	0.00020	1	09/07/2018 23:34
g-BHC	ND	0.00010	1	09/07/2018 23:34
Chlordane (Technical)	**0.033**	0.0025	1	09/07/2018 23:34
a-Chlordane	**0.0027**	0.00010	1	09/07/2018 23:34
g-Chlordane	**0.0036**	0.00010	1	09/07/2018 23:34
p,p-DDD	ND	0.00010	1	09/07/2018 23:34
p,p-DDE	**0.014**	0.00010	1	09/07/2018 23:34
p,p-DDT	**0.013**	0.00010	1	09/07/2018 23:34
Dieldrin	**0.00048**	0.00010	1	09/07/2018 23:34
Endosulfan I	ND	0.00010	1	09/07/2018 23:34
Endosulfan II	ND	0.00010	1	09/07/2018 23:34
Endosulfan sulfate	ND	0.00010	1	09/07/2018 23:34
Endrin	ND	0.00010	1	09/07/2018 23:34
Endrin aldehyde	ND	0.00010	1	09/07/2018 23:34
Endrin ketone	ND	0.00010	1	09/07/2018 23:34
Heptachlor	ND	0.00010	1	09/07/2018 23:34
Heptachlor epoxide	ND	0.00010	1	09/07/2018 23:34
Hexachlorobenzene	ND	0.0010	1	09/07/2018 23:34
Hexachlorocyclopentadiene	ND	0.0020	1	09/07/2018 23:34
Methoxychlor	ND	0.00020	1	09/07/2018 23:34
Toxaphene	ND	0.0050	1	09/07/2018 23:34

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	106	20-145	09/07/2018 23:34

Analyst(s): KX

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSMID1-6-12	**1808E99-011A**	**Soil**	**08/29/2018 11:40**	**GC40 09071831.d**	**164427**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	09/07/2018 23:49
a-BHC	ND	0.00010	1	09/07/2018 23:49
b-BHC	ND	0.00030	1	09/07/2018 23:49
d-BHC	ND	0.00020	1	09/07/2018 23:49
g-BHC	ND	0.00010	1	09/07/2018 23:49
Chlordane (Technical)	ND	0.0025	1	09/07/2018 23:49
a-Chlordane	ND	0.00010	1	09/07/2018 23:49
g-Chlordane	ND	0.00010	1	09/07/2018 23:49
p,p-DDD	ND	0.00010	1	09/07/2018 23:49
p,p-DDE	**0.00057**	0.00010	1	09/07/2018 23:49
p,p-DDT	**0.00052**	0.00010	1	09/07/2018 23:49
Dieldrin	ND	0.00010	1	09/07/2018 23:49
Endosulfan I	ND	0.00010	1	09/07/2018 23:49
Endosulfan II	ND	0.00010	1	09/07/2018 23:49
Endosulfan sulfate	ND	0.00010	1	09/07/2018 23:49
Endrin	ND	0.00010	1	09/07/2018 23:49
Endrin aldehyde	ND	0.00010	1	09/07/2018 23:49
Endrin ketone	ND	0.00010	1	09/07/2018 23:49
Heptachlor	ND	0.00010	1	09/07/2018 23:49
Heptachlor epoxide	ND	0.00010	1	09/07/2018 23:49
Hexachlorobenzene	ND	0.0010	1	09/07/2018 23:49
Hexachlorocyclopentadiene	ND	0.0020	1	09/07/2018 23:49
Methoxychlor	ND	0.00020	1	09/07/2018 23:49
Toxaphene	ND	0.0050	1	09/07/2018 23:49

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	101	20-145	09/07/2018 23:49

Analyst(s): KX

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSMID2-0-6	**1808E99-012A**	**Soil**	**08/29/2018 14:30**	**GC40 09091875.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.0050	50	09/10/2018 03:01
a-BHC	ND		0.0050	50	09/10/2018 03:01
b-BHC	ND		0.015	50	09/10/2018 03:01
d-BHC	ND		0.010	50	09/10/2018 03:01
g-BHC	ND		0.0050	50	09/10/2018 03:01
Chlordane (Technical)	**0.28**		0.12	50	09/10/2018 03:01
a-Chlordane	**0.023**		0.0050	50	09/10/2018 03:01
g-Chlordane	**0.015**	P	0.0050	50	09/10/2018 03:01
p,p-DDD	ND		0.0050	50	09/10/2018 03:01
p,p-DDE	ND		0.0050	50	09/10/2018 03:01
p,p-DDT	**0.0068**		0.0050	50	09/10/2018 03:01
Dieldrin	ND		0.0050	50	09/10/2018 03:01
Endosulfan I	**0.029**	P	0.0050	50	09/10/2018 03:01
Endosulfan II	ND		0.0050	50	09/10/2018 03:01
Endosulfan sulfate	ND		0.0050	50	09/10/2018 03:01
Endrin	ND		0.0050	50	09/10/2018 03:01
Endrin aldehyde	ND		0.0050	50	09/10/2018 03:01
Endrin ketone	ND		0.0050	50	09/10/2018 03:01
Heptachlor	ND		0.0050	50	09/10/2018 03:01
Heptachlor epoxide	ND		0.0050	50	09/10/2018 03:01
Hexachlorobenzene	ND		0.050	50	09/10/2018 03:01
Hexachlorocyclopentadiene	ND		0.10	50	09/10/2018 03:01
Methoxychlor	ND		0.010	50	09/10/2018 03:01
Toxaphene	ND		0.25	50	09/10/2018 03:01

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	133	20-145	09/10/2018 03:01

Analyst(s): KX Analytical Comments: a1,a2

(Cont.)

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSMID2-6-12	**1808E99-013A**	**Soil**	**08/29/2018 14:33**	**GC40 09091876.d**	**164427**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0050	50	09/10/2018 03:15
a-BHC	ND	0.0050	50	09/10/2018 03:15
b-BHC	ND	0.015	50	09/10/2018 03:15
d-BHC	ND	0.010	50	09/10/2018 03:15
g-BHC	ND	0.0050	50	09/10/2018 03:15
Chlordane (Technical)	ND	0.12	50	09/10/2018 03:15
a-Chlordane	**0.0073**	0.0050	50	09/10/2018 03:15
g-Chlordane	**0.0080**	0.0050	50	09/10/2018 03:15
p,p-DDD	ND	0.0050	50	09/10/2018 03:15
p,p-DDE	ND	0.0050	50	09/10/2018 03:15
p,p-DDT	ND	0.0050	50	09/10/2018 03:15
Dieldrin	ND	0.0050	50	09/10/2018 03:15
Endosulfan I	**0.0098**	0.0050	50	09/10/2018 03:15
Endosulfan II	ND	0.0050	50	09/10/2018 03:15
Endosulfan sulfate	ND	0.0050	50	09/10/2018 03:15
Endrin	ND	0.0050	50	09/10/2018 03:15
Endrin aldehyde	ND	0.0050	50	09/10/2018 03:15
Endrin ketone	ND	0.0050	50	09/10/2018 03:15
Heptachlor	ND	0.0050	50	09/10/2018 03:15
Heptachlor epoxide	ND	0.0050	50	09/10/2018 03:15
Hexachlorobenzene	ND	0.050	50	09/10/2018 03:15
Hexachlorocyclopentadiene	ND	0.10	50	09/10/2018 03:15
Methoxychlor	ND	0.010	50	09/10/2018 03:15
Toxaphene	ND	0.25	50	09/10/2018 03:15

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	124	20-145	09/10/2018 03:15

Analyst(s): KX Analytical Comments: a1,a2

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWMID1-0-6	**1808E99-014A**	**Soil**	**08/29/2018 10:43**	**GC40 09091877.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.010	100	09/10/2018 03:29
a-BHC	ND		0.010	100	09/10/2018 03:29
b-BHC	ND		0.030	100	09/10/2018 03:29
d-BHC	ND		0.020	100	09/10/2018 03:29
g-BHC	ND		0.010	100	09/10/2018 03:29
Chlordane (Technical)	**1.8**		0.25	100	09/10/2018 03:29
a-Chlordane	**0.17**		0.010	100	09/10/2018 03:29
g-Chlordane	**0.16**		0.010	100	09/10/2018 03:29
p,p-DDD	ND		0.010	100	09/10/2018 03:29
p,p-DDE	**0.092**		0.010	100	09/10/2018 03:29
p,p-DDT	**0.14**		0.010	100	09/10/2018 03:29
Dieldrin	ND		0.010	100	09/10/2018 03:29
Endosulfan I	**0.16**	P	0.010	100	09/10/2018 03:29
Endosulfan II	ND		0.010	100	09/10/2018 03:29
Endosulfan sulfate	ND		0.010	100	09/10/2018 03:29
Endrin	ND		0.010	100	09/10/2018 03:29
Endrin aldehyde	ND		0.010	100	09/10/2018 03:29
Endrin ketone	ND		0.010	100	09/10/2018 03:29
Heptachlor	ND		0.010	100	09/10/2018 03:29
Heptachlor epoxide	**0.010**		0.010	100	09/10/2018 03:29
Hexachlorobenzene	ND		0.10	100	09/10/2018 03:29
Hexachlorocyclopentadiene	ND		0.20	100	09/10/2018 03:29
Methoxychlor	**0.025**		0.020	100	09/10/2018 03:29
Toxaphene	ND		0.50	100	09/10/2018 03:29

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	223	S	20-145	09/10/2018 03:29

Analyst(s): KX Analytical Comments: a1,a2,c1

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWMID1-6-12	**1808E99-015A**	**Soil**	**08/29/2018 10:43**	**GC40 09091878.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.010	100	09/10/2018 03:43
a-BHC	ND		0.010	100	09/10/2018 03:43
b-BHC	ND		0.030	100	09/10/2018 03:43
d-BHC	ND		0.020	100	09/10/2018 03:43
g-BHC	ND		0.010	100	09/10/2018 03:43
Chlordane (Technical)	**1.1**		0.25	100	09/10/2018 03:43
a-Chlordane	**0.11**		0.010	100	09/10/2018 03:43
g-Chlordane	**0.10**		0.010	100	09/10/2018 03:43
p,p-DDD	ND		0.010	100	09/10/2018 03:43
p,p-DDE	**0.12**		0.010	100	09/10/2018 03:43
p,p-DDT	**0.11**		0.010	100	09/10/2018 03:43
Dieldrin	ND		0.010	100	09/10/2018 03:43
Endosulfan I	**0.11**	P	0.010	100	09/10/2018 03:43
Endosulfan II	ND		0.010	100	09/10/2018 03:43
Endosulfan sulfate	ND		0.010	100	09/10/2018 03:43
Endrin	ND		0.010	100	09/10/2018 03:43
Endrin aldehyde	ND		0.010	100	09/10/2018 03:43
Endrin ketone	ND		0.010	100	09/10/2018 03:43
Heptachlor	ND		0.010	100	09/10/2018 03:43
Heptachlor epoxide	ND		0.010	100	09/10/2018 03:43
Hexachlorobenzene	ND		0.10	100	09/10/2018 03:43
Hexachlorocyclopentadiene	ND		0.20	100	09/10/2018 03:43
Methoxychlor	ND		0.020	100	09/10/2018 03:43
Toxaphene	ND		0.50	100	09/10/2018 03:43

Surrogates	REC (%)	Qualifiers	Limits	
Decachlorobiphenyl	178	S	20-145	09/10/2018 03:43

Analyst(s): KX Analytical Comments: a1,a2,c1

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Analytical Report

Client: Terracon
Date Received: 8/31/18 15:50
Date Prepared: 9/5/18
Project: White Cottage

WorkOrder: 1808E99
Extraction Method: SW3550B/3640Am/3630Cm
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWMID2-0-6	1808E99-016A	Soil	08/29/2018 11:00	GC40 09091879.d	164427

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.0020	20	09/10/2018 03:57
a-BHC	ND		0.0020	20	09/10/2018 03:57
b-BHC	ND		0.0060	20	09/10/2018 03:57
d-BHC	ND		0.0040	20	09/10/2018 03:57
g-BHC	ND		0.0020	20	09/10/2018 03:57
Chlordane (Technical)	**0.28**		0.050	20	09/10/2018 03:57
a-Chlordane	**0.029**		0.0020	20	09/10/2018 03:57
g-Chlordane	**0.023**		0.0020	20	09/10/2018 03:57
p,p-DDD	ND		0.0020	20	09/10/2018 03:57
p,p-DDE	**0.063**		0.0020	20	09/10/2018 03:57
p,p-DDT	**0.10**		0.0020	20	09/10/2018 03:57
Dieldrin	**0.0065**		0.0020	20	09/10/2018 03:57
Endosulfan I	**0.029**	P	0.0020	20	09/10/2018 03:57
Endosulfan II	ND		0.0020	20	09/10/2018 03:57
Endosulfan sulfate	ND		0.0020	20	09/10/2018 03:57
Endrin	ND		0.0020	20	09/10/2018 03:57
Endrin aldehyde	ND		0.0020	20	09/10/2018 03:57
Endrin ketone	ND		0.0020	20	09/10/2018 03:57
Heptachlor	ND		0.0020	20	09/10/2018 03:57
Heptachlor epoxide	**0.0027**		0.0020	20	09/10/2018 03:57
Hexachlorobenzene	ND		0.020	20	09/10/2018 03:57
Hexachlorocyclopentadiene	ND		0.040	20	09/10/2018 03:57
Methoxychlor	ND		0.0040	20	09/10/2018 03:57
Toxaphene	ND		0.10	20	09/10/2018 03:57

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	114	20-145	09/10/2018 03:57

Analyst(s): KX
Analytical Comments: a1,a2

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWMID2-6-12	**1808E99-017A**	**Soil**	**08/29/2018 11:00**	**GC40 09091880.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.0020	20	09/10/2018 04:11
a-BHC	ND		0.0020	20	09/10/2018 04:11
b-BHC	ND		0.0060	20	09/10/2018 04:11
d-BHC	ND		0.0040	20	09/10/2018 04:11
g-BHC	ND		0.0020	20	09/10/2018 04:11
Chlordane (Technical)	**0.11**		0.050	20	09/10/2018 04:11
a-Chlordane	**0.010**		0.0020	20	09/10/2018 04:11
g-Chlordane	**0.0084**	P	0.0020	20	09/10/2018 04:11
p,p-DDD	ND		0.0020	20	09/10/2018 04:11
p,p-DDE	**0.034**		0.0020	20	09/10/2018 04:11
p,p-DDT	**0.045**		0.0020	20	09/10/2018 04:11
Dieldrin	ND		0.0020	20	09/10/2018 04:11
Endosulfan I	**0.011**	P	0.0020	20	09/10/2018 04:11
Endosulfan II	ND		0.0020	20	09/10/2018 04:11
Endosulfan sulfate	ND		0.0020	20	09/10/2018 04:11
Endrin	ND		0.0020	20	09/10/2018 04:11
Endrin aldehyde	ND		0.0020	20	09/10/2018 04:11
Endrin ketone	ND		0.0020	20	09/10/2018 04:11
Heptachlor	ND		0.0020	20	09/10/2018 04:11
Heptachlor epoxide	ND		0.0020	20	09/10/2018 04:11
Hexachlorobenzene	ND		0.020	20	09/10/2018 04:11
Hexachlorocyclopentadiene	ND		0.040	20	09/10/2018 04:11
Methoxychlor	ND		0.0040	20	09/10/2018 04:11
Toxaphene	ND		0.10	20	09/10/2018 04:11

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	103	20-145	09/10/2018 04:11

Analyst(s): KX

Analytical Comments: a1,a2

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	9/5/18	**Analytical Method:**	SW8081A
Project:	White Cottage	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSW-0-6	**1808E99-018A**	**Soil**	**08/29/2018 11:08**	**GC40 09091887.d**	**164427**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.0020	20	09/10/2018 05:49
a-BHC	ND		0.0020	20	09/10/2018 05:49
b-BHC	ND		0.0060	20	09/10/2018 05:49
d-BHC	ND		0.0040	20	09/10/2018 05:49
g-BHC	ND		0.0020	20	09/10/2018 05:49
Chlordane (Technical)	**0.21**		0.050	20	09/10/2018 05:49
a-Chlordane	**0.022**		0.0020	20	09/10/2018 05:49
g-Chlordane	**0.019**	P	0.0020	20	09/10/2018 05:49
p,p-DDD	ND		0.0020	20	09/10/2018 05:49
p,p-DDE	**0.017**		0.0020	20	09/10/2018 05:49
p,p-DDT	**0.036**		0.0020	20	09/10/2018 05:49
Dieldrin	ND		0.0020	20	09/10/2018 05:49
Endosulfan I	**0.0029**	P	0.0020	20	09/10/2018 05:49
Endosulfan II	ND		0.0020	20	09/10/2018 05:49
Endosulfan sulfate	ND		0.0020	20	09/10/2018 05:49
Endrin	ND		0.0020	20	09/10/2018 05:49
Endrin aldehyde	ND		0.0020	20	09/10/2018 05:49
Endrin ketone	ND		0.0020	20	09/10/2018 05:49
Heptachlor	ND		0.0020	20	09/10/2018 05:49
Heptachlor epoxide	**0.0020**		0.0020	20	09/10/2018 05:49
Hexachlorobenzene	ND		0.020	20	09/10/2018 05:49
Hexachlorocyclopentadiene	ND		0.040	20	09/10/2018 05:49
Methoxychlor	ND		0.0040	20	09/10/2018 05:49
Toxaphene	ND		0.10	20	09/10/2018 05:49

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	139	20-145	09/10/2018 05:49

Analyst(s): KX

Analytical Comments: a1,a2

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3050B
Date Prepared:	8/31/18	**Analytical Method:**	SW6020
Project:	White Cottage	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCNDL1-0-6	1808E99-001A	Soil	08/29/2018 09:22	ICP-MS3 019SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**210**	0.50	1	09/04/2018 10:17

Surrogates	REC (%)	Limits	
Terbium	103	70-130	09/04/2018 10:17

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCNDL1-6-12	1808E99-002A	Soil	08/29/2018 09:22	ICP-MS2 032SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**190**	0.50	1	09/04/2018 12:44

Surrogates	REC (%)	Limits	
Terbium	103	70-130	09/04/2018 12:44

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSDL1-0-6	1808E99-003A	Soil	08/29/2018 11:15	ICP-MS2 063SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**1200**	5.0	10	09/04/2018 15:53

Surrogates	REC (%)	Limits	
Terbium	107	70-130	09/04/2018 15:53

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSDL1-6-12	1808E99-004A	Soil	08/29/2018 11:20	ICP-MS2 036SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**390**	0.50	1	09/04/2018 13:09

Surrogates	REC (%)	Limits	
Terbium	111	70-130	09/04/2018 13:09

Analyst(s): MIG

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3050B
Date Prepared:	8/31/18	**Analytical Method:**	SW6020
Project:	White Cottage	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWDL1-0-6	1808E99-005A	Soil	08/29/2018 10:33	ICP-MS2 065SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**900**	5.0	10	09/04/2018 16:06

Surrogates	REC (%)	Limits	
Terbium	95	70-130	09/04/2018 16:06

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWDL1-6-12	1808E99-006A	Soil	08/29/2018 10:36	ICP-MS2 038SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**160**	0.50	1	09/04/2018 13:21

Surrogates	REC (%)	Limits	
Terbium	113	70-130	09/04/2018 13:21

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWDL2-0-6	1808E99-007A	Soil	08/29/2018 10:53	ICP-MS2 066SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**1100**	5.0	10	09/04/2018 16:12

Surrogates	REC (%)	Limits	
Terbium	98	70-130	09/04/2018 16:12

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWDL2-6-12	1808E99-008A	Soil	08/29/2018 10:53	ICP-MS2 070SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**740**	5.0	10	09/04/2018 16:36

Surrogates	REC (%)	Limits	
Terbium	98	70-130	09/04/2018 16:36

Analyst(s): MIG

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3050B
Date Prepared:	8/31/18	**Analytical Method:**	SW6020
Project:	White Cottage	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCNMID2-8-14	1808E99-009A	Soil	08/29/2018 09:48	ICP-MS2 044SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**3.3**	0.50	1	09/04/2018 13:57

Surrogates	REC (%)	Limits	
Terbium	106	70-130	09/04/2018 13:57

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSMID1-0-6	1808E99-010A	Soil	08/29/2018 11:35	ICP-MS2 045SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**63**	0.50	1	09/04/2018 14:03

Surrogates	REC (%)	Limits	
Terbium	110	70-130	09/04/2018 14:03

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSMID1-6-12	1808E99-011A	Soil	08/29/2018 11:40	ICP-MS2 046SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**3.4**	0.50	1	09/04/2018 14:09

Surrogates	REC (%)	Limits	
Terbium	109	70-130	09/04/2018 14:09

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSMID2-0-6	1808E99-012A	Soil	08/29/2018 14:30	ICP-MS2 047SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**110**	0.50	1	09/04/2018 14:15

Surrogates	REC (%)	Limits	
Terbium	115	70-130	09/04/2018 14:15

Analyst(s): JC

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3050B
Date Prepared:	8/31/18	**Analytical Method:**	SW6020
Project:	White Cottage	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSMID2-6-12	1808E99-013A	Soil	08/29/2018 14:33	ICP-MS2 048SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**31**	0.50	1	09/04/2018 14:22

Surrogates	REC (%)	Limits	
Terbium	105	70-130	09/04/2018 14:22

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWMID1-0-6	1808E99-014A	Soil	08/29/2018 10:43	ICP-MS2 049SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**400**	0.50	1	09/04/2018 14:28

Surrogates	REC (%)	Limits	
Terbium	104	70-130	09/04/2018 14:28

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWMID1-6-12	1808E99-015A	Soil	08/29/2018 10:43	ICP-MS2 062SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**890**	5.0	10	09/04/2018 15:47

Surrogates	REC (%)	Limits	
Terbium	99	70-130	09/04/2018 15:47

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWMID2-0-6	1808E99-016A	Soil	08/29/2018 11:00	ICP-MS2 051SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**290**	0.50	1	09/04/2018 14:40

Surrogates	REC (%)	Limits	
Terbium	102	70-130	09/04/2018 14:40

Analyst(s): JC

(Cont.)

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Analytical Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Received:	8/31/18 15:50	**Extraction Method:**	SW3050B
Date Prepared:	8/31/18	**Analytical Method:**	SW6020
Project:	White Cottage	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCWMID2-6-12	1808E99-017A	Soil	08/29/2018 11:00	ICP-MS2 052SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**300**	0.50	1	09/04/2018 14:46

Surrogates	REC (%)	Limits	
Terbium	110	70-130	09/04/2018 14:46

Analyst(s): JC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
WCSW-0-6	1808E99-018A	Soil	08/29/2018 11:08	ICP-MS2 053SMPL.D	164282

Analytes	Result	RL	DF	Date Analyzed
Lead	**77**	0.50	1	09/04/2018 14:52

Surrogates	REC (%)	Limits	
Terbium	106	70-130	09/04/2018 14:52

Analyst(s): JC

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Quality Control Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Prepared:	9/5/18	**BatchID:**	164427
Date Analyzed:	9/6/18 - 9/7/18	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC23	**Analytical Method:**	SW8081A
Matrix:	Soil	**Unit:**	mg/kg
Project:	White Cottage	**Sample ID:**	MB/LCS/LCSD-164427

QC Summary Report for SW8081A/8082

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00010	-	-	-
a-BHC	ND	0.00010	-	-	-
b-BHC	ND	0.00030	-	-	-
d-BHC	ND	0.00020	-	-	-
g-BHC	ND	0.00010	-	-	-
Chlordane (Technical)	ND	0.0025	-	-	-
a-Chlordane	ND	0.00010	-	-	-
g-Chlordane	ND	0.00010	-	-	-
p,p-DDD	ND	0.00010	-	-	-
p,p-DDE	ND	0.00010	-	-	-
p,p-DDT	ND	0.00010	-	-	-
Dieldrin	ND	0.00010	-	-	-
Endosulfan I	ND	0.00010	-	-	-
Endosulfan II	ND	0.00010	-	-	-
Endosulfan sulfate	ND	0.00010	-	-	-
Endrin	ND	0.00010	-	-	-
Endrin aldehyde	ND	0.00010	-	-	-
Endrin ketone	ND	0.00010	-	-	-
Heptachlor	ND	0.00010	-	-	-
Heptachlor epoxide	ND	0.00010	-	-	-
Hexachlorobenzene	ND	0.0010	-	-	-
Hexachlorocyclopentadiene	ND	0.0020	-	-	-
Methoxychlor	ND	0.00020	-	-	-
Toxaphene	ND	0.0050	-	-	-
Surrogate Recovery					
Decachlorobiphenyl	0.00495		0.0050	99	28-170

(Cont.)

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Quality Control Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Prepared:	9/5/18	**BatchID:**	164427
Date Analyzed:	9/6/18 - 9/7/18	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC23	**Analytical Method:**	SW8081A
Matrix:	Soil	**Unit:**	mg/kg
Project:	White Cottage	**Sample ID:**	MB/LCS/LCSD-164427

QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.00495	0.00490	0.0050	99	98	31-155	1.10	20
a-BHC	0.00488	0.00488	0.0050	98	98	32-160	0	20
b-BHC	0.00472	0.00468	0.0050	94	94	44-149	0	20
d-BHC	0.00578	0.00576	0.0050	116	115	37-157	0.388	20
g-BHC	0.00517	0.00514	0.0050	103	103	43-154	0	20
a-Chlordane	0.00460	0.00466	0.0050	92	93	39-150	1.34	20
g-Chlordane	0.00468	0.00514	0.0050	94	103	39-151	9.34	20
p,p-DDD	0.00385	0.00397	0.0050	77	79	30-158	3.07	20
p,p-DDE	0.00475	0.00485	0.0050	95	97	47-149	2.17	20
p,p-DDT	0.00477	0.00506	0.0050	95	101	56-166	5.83	20
Dieldrin	0.00513	0.00517	0.0050	103	103	50-163	0	20
Endosulfan I	0.00455	0.00456	0.0050	91	91	45-159	0	20
Endosulfan II	0.00434	0.00445	0.0050	87	89	41-155	2.66	20
Endosulfan sulfate	0.00489	0.00513	0.0050	98	103	45-156	4.67	20
Endrin	0.00478	0.00487	0.0050	96	97	54-154	1.97	20
Endrin aldehyde	0.00475	0.00494	0.0050	95	99	27-159	3.81	20
Endrin ketone	0.00466	0.00492	0.0050	93	98	40-147	5.38	20
Heptachlor	0.00498	0.00493	0.0050	100	99	52-165	1.07	20
Heptachlor epoxide	0.00438	0.00433	0.0050	88	87	46-145	1.20	20
Hexachlorobenzene	0.00446	0.00444	0.0050	89	89	22-156	0	20
Hexachlorocyclopentadiene	0.00550	0.00548	0.0050	110	110	43-173	0	20
Methoxychlor	0.00456	0.00479	0.0050	91	96	49-150	4.99	20
Surrogate Recovery								
Decachlorobiphenyl	0.00455	0.00471	0.0050	91	94	28-170	3.40	20

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Quality Control Report

Client:	Terracon	**WorkOrder:**	1808E99
Date Prepared:	8/31/18	**BatchID:**	164282
Date Analyzed:	9/4/18	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	White Cottage	**Sample ID:**	MB/LCS/LCSD-164282 1808E99-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Lead	ND	0.50	-	-	-
Surrogate Recovery					
Terbium	510		500	102	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead	49.4	51.5	50	99	103	75-125	4.04	20
Surrogate Recovery								
Terbium	507	528	500	101	106	70-130	4.04	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	444	286	50	214.3	459,F13	144,F13	75-125	43.1,F13	20
Surrogate Recovery									
Terbium	530	517	500		106	103	70-130	2.44	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	213	214.3	0.607	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1808E99 **ClientCode: RGAE**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Steve Farley
Terracon
1466 66th Street
Emeryville, CA 94608
(510) 547-7771 FAX: (510) 547-1983

Email: steve.farley@terracon.com
cc/3rd Party:
PO:
Project: White Cottage

Bill to:
Anita G. Ilsley
Terracon
1466 66th Street
Emeryville, CA 94608
anita.ilsley@rgaenv.com

Requested TAT: 5 days;

Date Received: **08/31/2018**
Date Logged: **08/31/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1808E99-001	WCNDL1-0-6	Soil	8/29/2018 09:22	☐	A	A										
1808E99-002	WCNDL1-6-12	Soil	8/29/2018 09:22	☐	A	A										
1808E99-003	WCSDL1-0-6	Soil	8/29/2018 11:15	☐	A	A										
1808E99-004	WCSDL1-6-12	Soil	8/29/2018 11:20	☐	A	A										
1808E99-005	WCWDL1-0-6	Soil	8/29/2018 10:33	☐	A	A										
1808E99-006	WCWDL1-6-12	Soil	8/29/2018 10:36	☐	A	A										
1808E99-007	WCWDL2-0-6	Soil	8/29/2018 10:53	☐	A	A										
1808E99-008	WCWDL2-6-12	Soil	8/29/2018 10:53	☐	A	A										
1808E99-009	WCNMID2-8-14	Soil	8/29/2018 09:48	☐	A	A										
1808E99-010	WCSMID1-0-6	Soil	8/29/2018 11:35	☐	A	A										
1808E99-011	WCSMID1-6-12	Soil	8/29/2018 11:40	☐	A	A										
1808E99-012	WCSMID2-0-6	Soil	8/29/2018 14:30	☐	A	A										
1808E99-013	WCSMID2-6-12	Soil	8/29/2018 14:33	☐	A	A										
1808E99-014	WCWMID1-0-6	Soil	8/29/2018 10:43	☐	A	A										
1808E99-015	WVWMID1-6-12	Soil	8/29/2018 10:43	☐	A	A										

Test Legend:

1	8081_S	2	PBMS_TTLC_S	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Kena Ponce

Comments:

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

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1808E99 **ClientCode: RGAE**

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☐ Detection Summary ☐ Dry-Weight

Report to:
Steve Farley
Terracon
1466 66th Street
Emeryville, CA 94608
(510) 547-7771 FAX: (510) 547-1983

Email: steve.farley@terracon.com
cc/3rd Party:
PO:
Project: White Cottage

Bill to:
Anita G. Ilsley
Terracon
1466 66th Street
Emeryville, CA 94608
anita.ilsley@rgaenv.com

Requested TAT: 5 days;

Date Received: **08/31/2018**
Date Logged: **08/31/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1808E99-016	WCWMID2-0-6	Soil	8/29/2018 11:00	☐	A	A										
1808E99-017	WCWMID2-6-12	Soil	8/29/2018 11:00	☐	A	A										
1808E99-018	WCSW-0-6	Soil	8/29/2018 11:08	☐	A	A										

Test Legend:

1	8081_S	2	PBMS_TTLC_S	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Kena Ponce

Comments:

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

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WORK ORDER SUMMARY

Client Name: TERRACON **Project:** White Cottage **Work Order:** 1808E99
Client Contact: Steve Farley **QC Level:** LEVEL 2
Contact's Email: steve.farley@terracon.com **Comments:** **Date Logged:** 8/31/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1808E99-001A	WCNDL1-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 9:22	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-002A	WCNDL1-6-12	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 9:22	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-003A	WCSDL1-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 11:15	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-004A	WCSDL1-6-12	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 11:20	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-005A	WCWDL1-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 10:33	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-006A	WCWDL1-6-12	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 10:36	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-007A	WCWDL2-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 10:53	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-008A	WCWDL2-6-12	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 10:53	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	

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

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

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WORK ORDER SUMMARY

Client Name: TERRACON **Project:** White Cottage **Work Order:** 1808E99
Client Contact: Steve Farley **QC Level:** LEVEL 2
Contact's Email: steve.farley@terracon.com **Comments:** **Date Logged:** 8/31/2018

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1808E99-009A	WCNMID2-8-14	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 9:48	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-010A	WCSMID1-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 11:35	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-011A	WCSMID1-6-12	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 11:40	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-012A	WCSMID2-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 14:30	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-013A	WCSMID2-6-12	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 14:33	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-014A	WCWMID1-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 10:43	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-015A	WVWMID1-6-12	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 10:43	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-016A	WCWMID2-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 11:00	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	

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

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WORK ORDER SUMMARY

Client Name: TERRACON **Project:** White Cottage **Work Order:** 1808E99
Client Contact: Steve Farley **QC Level:** LEVEL 2
Contact's Email: steve.farley@terracon.com **Comments:** **Date Logged:** 8/31/2018

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1808E99-017A	WCWMID2-6-12	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 11:00	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-018A	WCSW-0-6	Soil	SW6020 (Lead)	1	8OZ GJ, Unpres	☐	8/29/2018 11:08	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1808E99-019A	WCSP1-0-6	Soil		1	8OZ GJ, Unpres	☐	8/29/2018 11:50			☑	
1808E99-020A	WCSP2-0-6	Soil		1	8OZ GJ, Unpres	☐	8/29/2018 11:50			☑	
1808E99-021A	WCWP1-0-6	Soil		1	8OZ GJ, Unpres	☐	8/29/2018 14:30			☑	

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

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General COC

MAI Work Order # 1808E99

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
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CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush | 2 Day Rush | 3 Day Rush | STD | Quote #
J-Flag / MDL | ESL | Cleanup Approved | Bottle Order #
Delivery Format: PDF | GeoTracker EDF | EDD | Write On (DW) | EQuIS

Report To: Steve Farley Bill To: Terracon
Company: Terracon
Email: Steve.Farley@terracon.com
Alt Email: steff.steiner@terracon.com Tele: 510-899-7091
Project Name: White Cottage Project #:
Project Location: Fairmont Hospital PO #
Sampler Signature: Stephen Farley

Analysis Requested

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	Lead (6020)	Pesticide (8081A)
WCNDL1-0-6	8/29	922	1	Soil	Ice	X	X
WCNDL1-6-12	8/29	922	1	"	"	X	X
WCEDL1-0-6							
WCEDL1-6-12							
WCSDL1-0-6	8/29	11:15	1			X	X
WCSDL1-6-12	8/29	11:20	1			X	X
WCWDL1-0-6	8/29	1033	1			X	X
WCWDL1-6-12	8/29	1036	1			X	X
WCWDL2-0-6	8/29	1053	1			X	X
WCWDL2-6-12	8/29	1053	1			X	X

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Stephen Farley / TERRACON	8/31/18	1358		8/31/18	1358
	8/31/18	1550		8/31/18	1850

Comments / Instructions
*=Hold Sample
Call Steve Farley
510-899-7091

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 4.2 °C Initials

Page 1 of

General COC

MAI Work Order # _____

6

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush		2 Day Rush		3 Day Rush		STD	X	Quote #															
J-Flag / MDL		ESL		Cleanup Approved				Bottle Order #															
Delivery Format:	PDF	X	GeoTracker EDF		EDD		Write On (DW)		EQuIS														

Report To: Steve Farley Bill To: Terracon

Company: Terracon

Email: Steve.Farley@terracon.com

Alt Email: steff.steiner@terracon.com Tele: 510-899-7091

Project Name: White Cottage Project #:

Project Location: Fairmont Hospital PO #

Sampler Signature: Stephanie Farley

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	Analysis Requested: LEAD (6020)	Pesticide (8081A)
WCSMID2-0-6	8/29	1430	1	Soil	Ice	X	X
WCSMID2-6-12	8/29	1433				X	X
WCWMID1-0-6	8/29	1043				X	X
WCWMID1-6-12	8/29	1043				X	X
WCWMID2-0-6	8/29	1100				X	X
WCWMID2-6-12	8/29	1100				X	X
WCSW-0-6	8/29	1108				X	X
~~WCSW-6-12~~							

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Stephanie Farley / TERRACON	8/31/18	1358		8/31/18	1358
	8/31/18	1550		8/31/18	1550

Comments / Instructions

*= Hold Sample
Call Steve Farley
510-899-~~7019~~ 7091

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other

Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp _____ °C Initials _____

General COC

MAI Work Order # _____

6

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush [ ] 2 Day Rush [ ] 3 Day Rush [ ] STD [X] Quote # [ ]
J-Flag / MDL [ ] ESL [ ] Cleanup Approved [ ] Bottle Order # [ ]
Delivery Format: PDF [ ] GeoTracker EDF [ ] EDD [ ] Write On (DW) [ ] EQuIS [ ]

Report To: Steve Farley Bill To: Terracon
Company: Terracon
Email: Steve.Farley@terracon.com
Alt Email: steff.steiner@terracon.com Tele: 510-899-7091
Project Name: White Cottage Project #:
Project Location: Fairmont Hospital PO #
Sampler Signature: Stephen Farley

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	Analysis Requested: Lead (6010)	Pesticide (8081A)
WCNMID1-0-6			1	Soil	Ice		
WCNMID1-6-12			"	"	"		
WCNMID2-0-6 8-14	8/29	9:48	"	"	"	X	X
WCNMID2-6-12							
WCEMID1-0-6							
WCEMID1-6-12							
WCEMID2-0-6							
WCEMID2-6-12							
WCSMID1-0-6	8/29	11:35	1	X	X	X	X
WCSMID1-6-12	8/29	11:40	1	X	X	X	X

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Stephen Farley / TERRACON	8/31/18	1308		8/31	1308
	8/31/18	1350		8/31/18	1550

Comments / Instructions
*=Hold Sample
Call Steve Farley
510-899-7091

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp _____ °C Initials _____

Page 2 of ___

General COC

MAI Work Order # _____

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701
Telephone: (877) 252-9262 / Fax: (925) 252-9269
www.mccampbell.com main@mccampbell.com

CHAIN OF CUSTODY RECORD

Turn Around Time:	1 Day Rush		2 Day Rush		3 Day Rush		STD		Quote #	
J-Flag / MDL		ESL		Cleanup Approved					Bottle Order #	
Delivery Format:	PDF		GeoTracker EDF		EDD		Write On (DW)		EQuIS	

Report To: Steve Farley Bill To: Terracon

Company: Terracon

Email: Steve.Farley@terracon.com

Alt Email: steff.steiner@terracon.com Tele: 510-899-7091

Project Name: White Cottage Project #:

Project Location: Fairmont Hospital PO #

Sampler Signature: Stephen Farley

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	Analysis Requested: LEAD (6020)	Pesticides (8081K)
*WCSP1-0-6 *	8/29	~~8/29~~ 1150	1	Soil	Ice	X	
*WCSP1-6-12							
*WCSP2-0-6 *	8/29	1150	1	Soil	ICE	X	
*WCSP2-6-12							
*WCSP3-0-6							
*WCSP3-6-12							
*WCWP1-0-6 *	8/29	1430	1	Soil	ICE	X	
*WCWP1-6-12							
*WCWP2-0-6							
*WCWP2-6-12							

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Stephen Farley TERRACON	8/31/18	1358		8/31/18	1358
	8/31/18	1550		8/31/18	1550

Comments / Instructions

*= Hold Sample
Call Steve Farley
510-899-~~7019~~ 7091
* DID NOT Receive Container.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other

Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp _____ °C Initials _____

Page 4 of ___

McCampbell Analytical, Inc.
"When Quality Counts"

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

Sample Receipt Checklist

Client Name: **Terracon**
Project: **White Cottage**

WorkOrder №: **1808E99** Matrix: Soil
Carrier: Benjamin Yslas (MAI Courier)

Date and Time Received **8/31/2018 15:50**
Date Logged: **8/31/2018**
Received by: Kena Ponce
Logged by: Kena Ponce

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 4.2°C				NA	☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA	☑
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments: Sample WCWP1-0-6 was not received.

Terracon

DAILY OBSERVATION LOG

PROJECT NAME	WHITE COTTAGE COTTAGES	DATE	8/29/18
SITE ADDRESS	FAIRMONT HOST	PROJECT NUMBER	R1195840
CLIENT CONTACT	MICHAEL BISHOP	TERRACON REPRESENTATIVE	S. FARLEY
CLIENT PHONE NUMBER			

830 - ARRIVED ONSITE, MET Jason (COAL). APPROVED TO LOCK GATE AFTER COMPLETION OF JOB

WCNDL1 -0-6 - 13' NE, 2½' → DRIP LINE moist 922

WCNDL1 - 6-12 ↓ ↓ DRY ↓

~~WCMID1 - 0-6 13' NE 6' - MID LINE~~

~~WCMID1 - 6-12~~ ↓ ↓

WCMID 2-8-14 ASPHALT @ 8" THICK at 8' FROM DL, 30' NE

Surface Sample - 8-14, 948

ROCK ↓ @ 15"

ASPHALT & Concrete to @ 16"

WCWDL1-0-6 - 6' NW DRIP LINE moist-DRY 1033

WCWDL1-6-12 6' NW ↓ DRY 1036

WCWMID1-0-6 6' NW - 4' from DRIP line moist/DRY 1043

6-12 ↓ ↓ DRY ↓

WCWDL2-0-6- 40' NW DRIP LINE slightly moist 1053

WCWDL2 6-12 40' NW DRIP LINE ↓ ↓

↳ PHOTO @ 16"

SIGNATURE: _____

DATE: _____

Terracon

DAILY OBSERVATION LOG			Page 2 of 3
PROJECT NAME	WHITE LOTUS DOLL	DATE	8/29/18
SITE ADDRESS	FAIRMONT HOSP	PROJECT NUMBER	R1187858
CLIENT CONTACT	MICHAEL BISHOP	TERRACON REPRESENTATIVE	B. FARLEY
CLIENT PHONE NUMBER			

WCW MID2-0-6 - 40' NW 5' FROM DRIP line slightly moist 1100

WCW MID2-6-12 40' NW ↓ ↓

WCSW-0-6 10' SW CORNER slightly moist 1108

Surface only, Pb only

WCSDL1-0-6 8' SE DRIP LINE DRY

6-12 ↓ ↓

LIMITED HORIZONTAL DUE TO CONCRETE & STAIRS

WCSMID1-0-6 8' SE 2' DRIP line DRY

↓ 6-12 ↓ ↓

ASPHALT CAP @ FOLLOWING LOCATIONS

3 WEST PERIMETERS

2 NORTH MID LINES

1 EAST DRIP LINE

2 EAST MID LINES

1 NOA EAST

WCSP1-0-6 8SE 12' FROM DRIP LINE LEAD ONLY DRY

WCSP2-0-6 35' SE, 15' DRIP LINE ↓ DRY

SIGNATURE: _____

DATE: _____

Terracon

DAILY OBSERVATION LOG			Page 3 of 3
PROJECT NAME	WHITE COTTON MILL	DATE	8/29/19
SITE ADDRESS	FAIRMONT 40 SP	PROJECT NUMBER	R1189858
CLIENT CONTACT	MICHAEL BISHOP	TERRACON REPRESENTATIVE	S. FARLEY
CLIENT PHONE NUMBER			

WCWP1-8H - 8" BELOW SURFACE ASPHALT LEAD ONLY
8" THICK ASPHALT MOIST
10' FROM DRIP LINE
4' NW

WCSMID 2-0-6 30', SE; 4' DRIP LINE DRY
6-12 1

ALBERTO - TERRACON ARRIVED @ 1300 TO PROVIDE CORE DRILLING THROUGH ASPHALT, DID (2) TEST HOLES, WILL HAVE TO RETURN TO COMPLETE, AWAITING CLIENT RESPONSE - @ 8 CORES

NOA - 1E, 1F GREY CRUSHED ~~ROCK~~ CONCRETE @ 14" DEPTH

SIGNATURE: _____

DATE: _____

4701 Doyle Street
Suite 14
Emeryville, CA 94608
(510) 547-7771
(510) 547-1983 fax

BLDG 557

RGA Environmental, Inc.

Asbestos and Lead Survey Report

White Cotton Cottage
San Leandro, California

Asbestos and Lead Testing

RGA Project No. COAL6017

January 29, 2001

Table of Contents

1. Executive Summary 1
2. Scope of Work 2
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4. Asbestos Results 4
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Appendices

A. Tables
B. Laboratory Results and Chain of Custody
C. Site Inspector Certificates

Asbestos and Lead Survey Report

Asbestos and Lead Testing

White Cotton Cottage

1. Executive Summary

The following is a report of the asbestos and lead survey conducted by Mr. Kenneth Pilgrim, California Certified Asbestos Consultant (CAC) and Bill Mcalhattan, California Certified Site Surveillance Technician (CSST), with RGA Environmental, Inc. (RGA). The survey was performed on December 29, 2000 at the White Cotton Cottage located at the Fairmont Hospital in San Leandro, California.

All nine (9) of the painted surfaces sampled from the building were found to contain detectable levels of lead. Paint sampled on the interior and exterior of the buildings was damaged and peeling from the substrate. The highest lead content (304,000 ppm) was detected in the white paint on the exterior wood window frames and the white paint on the interior plaster walls in the kitchen.

Twenty-nine (29) homogeneous suspect asbestos-containing materials (ACMs) were identified in building during the survey. Nine (9) of the homogeneous materials tested positive for asbestos-content. Regulations require that any time ACMs are impacted during repair, renovation, removal or demolition that the work be performed by properly trained and certified workers. The ACMs identified are listed below:

TABLE I
ASBESTOS-CONTAINING MATERIAL(S)

Material Description	Material Location	Friability	Asbestos Type
Drywall with joint compound	Partition wall and patch locations	Friable	Compounds >1% CH, Drywall: ND
Pipe Insulation	Wall cavities associated with radiators	Friable	7% CH, 3% AM
12" x 12" Light brown floor tile with streaks and mastic	Hallway and kitchen	Non-friable	Tile: 2% CH, Mastic: ND

Material Description	Material Location	Friability	Asbestos Type
12" x 12" floor tile with light brown streaks, mastic, and vapor barrier	NE corner room – 1st floor	Non-friable	Floor tile: 2% CH, Mastic: ND
12" x 12" Floor tile – patch tiles	Mud/laundry room – 1st floor	Non-friable	Tile >1% CH, Mastic: ND
Pipe wrap	Basement – associated with domestic hot water	Friable	90% CH
Floor tile and mastic under carpet	Basement – large office	Non-friable	Tile: 3% CH, Mastic: ND
Roofing cement	Roof penetrations and patch locations	Non-friable	4% CH
Asbestos paper	Light fixture – 2nd floor – SW room	Friable	Paper 70% CH

CH=Chrysotile asbestos

2. Scope of Work

The scope of the survey was as follows:

- Collect a representative number of samples of suspect asbestos-containing materials (ACMs) following a National Emissions Standards for Hazardous Air Pollutants (NESHAPS) protocol for sample collection for a demolition/renovation survey.

- Provide a DHS lead certified inspector to collect bulk paint chip samples of peeling and/or stratified paint suspected to be lead-containing. Bulk samples were analyzed at an accredited laboratory by Flame Atomic Absorption (AA) for Total Lead reported in parts per million (ppm).

- Asbestos bulk samples will be analyzed using polarized light microscopy (PLM) in accordance with EPA's July 1993 method for the determination of asbestos in bulk building materials - EPA 600/R-93/116.

- Submit written report including analytical results, regulatory requirements, and conclusions.

3. Methods and Sampling Strategy

Visual Inspection

Accessible building materials were visually inspected using the methods presented in the federal Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR, Part 763) as a guideline. AHERA was originally only applicable to schools, however State and Federal OSHA and ASHARA have adopted the AHERA sampling methodology for all buildings subject to demolition or renovation.

Potential ACM was also physically assessed for friability, condition and disturbance factors.

Bulk Sampling of Asbestos

Bulk samples of all suspect homogeneous materials were collected. A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, texture or age of construction. Examples of homogeneous materials include:

- Pipe-insulation produced by the same manufacturer and installed during the same time period;
- Resilient flooring of identical color and pattern;
- Troweled on surfacing materials located in contiguous areas.

The building was visually inspected for the presence of suspect materials. As materials were identified, bulk samples were obtained with the aid of a coring device or other hand tool and placed into individual sampling bags. Each sample was given a discreet identification number and recorded on field notes as well as chain-of-custody forms. Refer to accompanying tables and appendices for details on material sample locations and results.

Bulk Sampling of Lead Paint

Paint chip samples were collected using a hand scraper and were placed into individual plastic sampling containers. Each sample was provided a discreet sample number, which was recorded on a chain-of-custody form. The samples were transported under chain-of-custody procedures to RJ Lee Group, Inc. (RJ Lee). Please refer to Table III for details on sample locations and sample results.

Bulk Sample Analysis

Bulk asbestos and lead samples were analyzed by RJ Lee. RJ Lee is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP).

All samples were analyzed using polarized light microscopy (PLM) techniques in accordance with methodology approved by the U.S. Environmental Protection

Agency (EPA). As set forth in the Code of Federal Regulations, 40 CFR Part 763, Appendix A to Subpart F, Section 1.2 and 1.7.2.4, the lower limit of reliability detection for asbestos using the PLM method is approximately one percent (1%) by volume. Cal-OSHA defines asbestos containing construction materials (ACCM) as those materials having an asbestos content of greater than one tenth of one percent (>0.1%).

When None Detected (ND) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM method.

Note: under EPA assessment criteria, if a single sample of a homogeneous material tests positive for asbestos, all homogeneous materials in that functional space are considered to be asbestos containing.

All paint samples were analyzed for lead content using the Flame Atomic Absorption spectroscopy in accordance to EPA Method SW846-3050-7000A. When "<" appears in the lead sample report, it should be interpreted as meaning below analytical detection limit and no lead was detected in the paint sample.

4. Asbestos Results

During the survey, twenty-nine (29) homogeneous suspect asbestos-containing materials (ACMs) were identified at the White Cotton Cottage. Nine (9) of the homogeneous materials tested positive for asbestos-content. The results are summarized in the tables below:

TABLE I
ASBESTOS-CONTAINING MATERIAL(S)

Material Description	Material Location	Friability	Asbestos Type	Approx. Quantity
Drywall with joint compound	Partition wall and patch locations	Friable	Compounds >1% CH, Drywall: ND	2,000 sf
Pipe Insulation	Wall cavities associated with radiators	Friable	7% CH, 3% AM	5 lf
12" x 12" Light brown floor tile with streaks and mastic	Hallway and kitchen	Non-friable	Tile: 2% CH, Mastic: ND	200 sf
12" x 12" floor tile with light brown streaks, mastic, and vapor barrier	NW corner room – 1st floor	Non-friable	Floor tile: 2% CH, Mastic: ND	150 sf

Material Description	Material Location	Friability	Asbestos Type	Approx. Quantity
12" x 12" Floor tile – patch tiles	Mud/laundry room – 1st floor	Non-friable	Tile >1% CH, Mastic: ND	20 sf
Pipe wrap	Basement – associated with domestic hot water	Friable	90% CH	5 lf
Floor tile and mastic under carpet	Basement – large office	Non-friable	Tile: 3% CH, Mastic: ND	250 sf
Roofing cement	Roof penetrations and patch locations	Non-friable	4% CH	50 sf
Asbestos paper	Light fixture – 2nd floor – SE room	Friable	Paper 70% CH	1 sf

CH = Chrysotile asbestos

Twenty of the suspect ACMs sampled at the White Cotton Cottage did not contain asbestos. The materials are presented in Table II:

TABLE II
NON-ASBESTOS CONTAINING MATERIAL(S)

Plaster on wood lath – walls and ceilings	Wall covering – cloth - walls
Plaster on wire lath – random walls	Ceramic tile grout - bathroom
Linoleum – 2nd floor bathroom	Blown insulation – 2nd floor – ceiling space
Plaster over button board – 1st floor – NE corner bathroom	12" x 12" floor tile, white with blue spots with mastic and vapor barrier – kitchen
Basecove, light brown – kitchen	Basecove - SE bathroom
Black and gold floor tile – 1st floor – southern rooms	Basecove, 4", dark brown – basement – large office
Plaster over concrete	Basement
Vapor barrier – 1st floor living room wall	Checker board floor tile – 1st floor – SW corner

Window putty	Roofing shingles
Skylight putty	Anti-skid coating

5. Lead Results

Nine (9) samples were collected from various surfaces on the interior and exterior of the building. Most of the sampled paint was peeling and in poor condition. Table III below summarizes the sampling locations and lead content of each material.

TABLEIII
LEAD IN PAINT SAMPLE RESULTS

Sample Number	Location	Results mg/kg (ppm)
123473	Pink paint on interior wood window frame – 2nd floor southwest corner	115,000
123460	Gray paint on interior wood door frame, northwest corner	33,300
123444	Pink paint on plaster wall – 1st floor north wall of center room	1,370
117637	White paint on wood – 1st floor bathroom near kitchen	149,000
121177	White paint on exterior wood window frame – kitchen	304,000
121183	White paint on exterior wood shingles – northeast corner	288,000
121194	White paint on exterior wood door threshold -	310,000
121196	Black paint on metal roof ladder – roof	2,440
121216	White paint on interior plaster wall – kitchen	304,000

mg/kg – milligrams per kilogram, ppm – parts per million

6. Regulatory Requirements

Asbestos

Asbestos-containing building materials at the White Cotton Cottage contain asbestos in concentrations greater than one tenth of one percent (0.1%). Impacting materials containing greater than 0.1% asbestos either through repair, maintenance, renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection) and EPA (environmental exposure, transportation and disposal).

Listed below are the regulations that apply if the materials are removed:

- Any individual who contracts to provide health and safety services relating to asbestos-containing materials must be certified by Cal-OSHA as either a Certified Asbestos Consultant or a Site Surveillance Technician. The activities they are certified to provide include: conducting asbestos surveys; writing work plans or specifications for abatement; monitoring the work of abatement contractors; collecting air samples; and determining if the work area is safe for re-occupancy by non-asbestos workers. Regulation: Cal-OSHA 8 CCR 1529 (q)(1).

- More than 100 square feet of materials that contain greater than 0.1% asbestos will be abated. Therefore, the material must be abated by a licensed asbestos abatement contractor. Regulation: Cal-OSHA 8 CCR 1529 (R).

- ACMs that are classified by OSHA as miscellaneous materials will be abated. This work is considered a Class II activity according to OSHA regulations. Work practices and engineering controls include critical barriers or isolation of the work area in combination with perimeter monitoring. Regulation: Cal-OSHA 8 CCR 1529 (g) (7) (B)

- Friable ACMs greater than 1% asbestos must be disposed of as hazardous waste in accordance with the Department of Toxic and Substances Control (DTSC) which is a division of Cal-EPA. DTSC regulates disposal of asbestos waste. In California, friable asbestos waste is required to be handled and manifested as a hazardous waste. DTSC issues U.S. EPA hazardous waste generator identification numbers.

Lead-Based Paint

Peeling and otherwise damaged lead-containing paints were identified at the White Cotton Cottage. Impacting lead-containing paint either through repair, maintenance, renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection) and EPA (environmental exposure, transportation and disposal).

Listed below are the lead paint regulations that apply if the paint is removed:

- There are presently no federal, state or local regulations limiting the concentration of lead in public sector buildings, however several regulations established for the private sector as well as for government subsidized housing are used industry wide as guidelines for assessing exposure to lead. The Consumer Product Safety Commission (CPSC) has set a maximum limit of 600 ppm in paint used for residential purposes and the Department of Housing and Urban Development (HUD) requires abatement of paints containing lead in concentrations exceeding 5,000 ppm.

- Disposal of all lead-based paints is regulated at concentrations at or exceeding 350 ppm as stated in 40 Code of Federal Regulations (CFR) Part 263 - Land Disposal Regulations and Title 22, Division 4 Environmental Health of the California Administrative Code. This level is often used as the threshold to determine which peeling and stratified paints must be abated prior to building demolition, however lead related work at any lead concentration is regulated under the Occupational Safety and Health statutes.

- The Federal Occupations Safety and Health Administration (OSHA) as well as California OSHA regulate all worker exposure during construction activities that impact lead-based paint. OSHA enforces the Lead Exposure in Construction; Interim Final Rule found in 29 CFR Part 1926.62. The scope covers construction work where employees may be exposed to lead during such activities as demolition, removal, surface preparation for re-painting, renovation, clean-up and routine maintenance. The OSHA specified method of compliance includes respiratory protection, protective clothing and equipment, housekeeping, hygiene facilities, medical surveillance, training, etc.

- EPA Title X requires that the EPA and/or individual states develop training/certification regulations for individuals engaged in lead-based paint activities and requires the EPA to issue guidelines and evaluate renovation and remodeling activities involving lead paint.

7. Limitations

The information provided in this report is not intended to be used as a biddable document for abatement purposes.

APPENDIX A

TABLES

White cotton cottage
San Leandro

Renovation Survey

Table I

Asbestos Bulk Sample Results

Date Sampled: 12/29/00
Date Printed: 1/23/2001
Project Number: COAL6017
Surveyed By: Ken Pilgrim, Bill McIlhattan

HMN	Material Description / Sample Location	Friability	Condition	Asbestos Type / Percent
001	**Drywall with joint compound**	Friable	Good Condition	
117639	Basement, small office			Sample Not Analyzed
117651	Downstairs, NW room			Sample Not Analyzed
121125	NW, upstairs corner room			ND
121143	SW, upstairs corner room			ND
123249	Downstairs living room, east wall in front of fire place			Compounds >1% CH; Other Layer ND
123446	Downstairs small room, NW corner			Sample Not Analyzed
123447	Downstairs, north middle room			Sample Not Analyzed

All analyses completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982). PLM may detect asbestos in "Trace" concentrations (<1%). Thus negative (ND) results cannot be guaranteed. The absence of asbestos in vinyl floor tiles, wipes or other similar samples cannot be conclusively established by this method, and should be confirmed by an independent analytical method such as Transmission Electron Microscopy (TEM). Detection Limit: <1% ("Trace"). Quantification range 1-100%. ND = None Detected. NA = Not Applicable.

HMN = Homogenous material number, CH=Chrysotile, Am=Amosite, TR=Tremolite, CR=Crocidolite, AN=Anthophyllite, AC=Actinolite

HMN	Material Description / Sample Location	Friability	Condition	Asbestos Type / Percent
002	**Plaster with skim coat**	NA	NA	
117640	Downstairs North hallway			ND
117643	Living room wall			ND
123337	West upstairs middle room			ND
123438	East upstairs middle bathroom			ND
123468	Downstairs kitchen steps			ND
123472	Downstairs, NW corner by radiator			ND
123477	NW, upstairs corner room			ND
003	**Wall covering, cloth**	NA	NA	
117636	Downstairs hallway			ND
123479	Downstairs next to front door			ND
123480	Upstairs west middle room			ND
004	**Plaster on wire lath**	NA	NA	
123465	Kitchen North wall			ND
123466	Kitchen South wall			ND
123475	SW upstairs corner room			ND

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White cotton cottage

RGA Environmental Inc.
510 547-7771

HMN	Material Description / Sample Location	Friability	Condition	Asbestos Type / Percent
005	**Pipe Insulation**	Friable	Damaged Condition	
123436	Radiator upstairs NE corner bathroom			7% CH; 3% AM
006	**Ceramic tile grout**	NA	NA	
123443	Bathroom upstairs, NE corner wall			ND
123471	Bathroom upstairs, NE corner floor			ND
007	**Linoleum**	NA	NA	
123437	Upstairs, SE corner bathroom			ND
008	**Blown Insulation**	NA	NA	
123439	Crawl space, SE upstairs corner room			ND
009	**Plaster over button board**	NA	NA	
123462	Downstairs, NE corner room			ND
123463	Downstairs, NE corner bathroom			ND
123467	Downstairs, NE corner bathroom			ND

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HMN = Homogenous material number, CH=Chrysotile, Am=Amosite, TR=Tremolite, CR=Crocidolite, AN=Anthophyllite, AC=Actinolite

White cotton cottage

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HMN	Material Description / Sample Location		Friability	Condition	Asbestos Type / Percent
010	**12 x12 floor tile, light brown w/ streaks, w/ mastic barrier**		Non-Friable	Good Condition	
	117622	Downstairs hallway, Northside			Floor tile 2% CH; Other Layer ND
	117628	Kitchen			Sample Not Analyzed
011	**12 x12 floor tile, light brown streaks, w/ mastic/barrier**		Non-Friable	Good Condition	
	117626	NE corner downstairs room			Floor tile 2% CH; Other Layer ND
	117642	NE corner downstairs room			Sample Not Analyzed
012	**12 x12 floor tile, white w/ blue spots, w/ mastic barrier**		NA	NA	
	117624	Downstairs kitchen			ND
	117631	Downstairs kitchen			ND
013	**Basecove, light brown**		NA	NA	
	117625	Kitchen			ND
	117629	Kitchen			ND

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White cotton cottage

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HMN	Material Description / Sample Location		Friability	Condition	Asbestos Type / Percent
014	**Base covering**		NA	NA	
	117627	Bathroom, SE corner of kitchen			ND
015	**12 x 12 patch tiles, Mud room**		NA	NA	
	117630	Mudroom			Sample Not Analyzed
	117635	Mudroom			Sample Not Analyzed
	117646	Mudroom			Tile >1% CH; Other Layer: ND
016	**Black and gold floor tile**		NA	NA	
	117645	Downstairs South middle room			ND
	117647	Downstairs, SE corner room			ND
	117658	Downstairs, SE corner room			ND
017	**Pipe wrap, canvas**		Friable	Damaged Condition	
	117648	Basement, SE corner, near exit			90% CH

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HMN	Material Description / Sample Location		Friability	Condition	Asbestos Type / Percent
018	**Floor tile under carpet**		Non-Friable	Good Condition	
	117641	Downstairs, large office room			Floor tile 3% CH; Other Layer ND
	117650	Downstairs, large office room			ND
019	**Basecove, 4" dark brown**		NA	NA	
	117623	Large office, basement			ND
	117638	Large office, basement			ND
020	**Plaster over concrete**		NA	NA	
	117632	Downstairs, small office			ND
	117633	Downstairs, large office			ND
	117634	Downstairs, large office			ND
021	**Vapor barrier**		NA	NA	
	123375	Behind plywood, living room, SE wall			ND
022	**Basecove, 4" and mastic**		NA	NA	
	123448	Sunroom, SW, downstairs corner			ND

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HMN	Material Description / Sample Location	Friability	Condition	Asbestos Type / Percent
023	**Tile floor**	NA	NA	
123445	Checkerboard floortile, sunroom, SW corner			ND
123461	Checkerboard floortile, sunroom, SW corner			ND
024	**Window putty**	NA	NA	
121156	NW turret			ND
121187	Kitchen window, over sink			ND
121213	SE corner, sunroom			ND
025	**Roofing cement**	Non-Friable	Good Condition	
121180	Skylight			Sample Not Analyzed
121181	At pipe penetration			Sample Not Analyzed
121195	Chimney			4% CH
026	**Roofing shingles**	NA	NA	
121157	SE corner at ladder			ND
121182	North peak			ND
121184	East roof (top)			ND

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White cotton cottage

RGA Environmental Inc.
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HMN	Material Description / Sample Location	Friability	Condition	Asbestos Type / Percent
027	**Skylight putty**	NA	NA	
121173	Skylight			ND
121189	Skylight			ND
028	**Anti-skid coating**	NA	NA	
121210	Front porch			ND
121215	Front porch			ND
029	**Light fixture paper**	Friable	Damaged Condition	
121214	2nd floor, SW room			Paper 70% CH; Other Layer ND

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HMN = Homogenous material number, CH=Chrysotile, Am=Amosite, TR=Tremolite, CR=Crocidolite, AN=Anthophyllite, AC=Actinolite

White cotton cottage

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APPENDIX B

LABORATORY RESULTS AND CHAIN OF CUSTODY

Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Nonasbestos: Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1727970CPL	121125	-	-	-	-	-	-	3 %	-	-	-	-	97 %	1/4/01
Plaster - NS ; wht. drywall ; wht. comp						NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.								SSY
														Non Homogeneous
1727971CPL	121143	-	-	-	-	-	-	3 %	-	-	-	-	97 %	1/4/01
Plaster - NS ; wht. drywall ; wht. comp						NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.								SSY
														Non Homogeneous
1727972CPL	123249	<1 %	-	-	-	-	-	3 %	-	-	-	-	97 %	1/4/01
Plaster - NS ; wht. drywall ; wht. comp						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
Layer Content:	Comp >1% Chrysotile ; Other Layer : None Detected													Non Homogeneous
1727973CPL	123446													
Sample Location	Sample Not Analyzed													
1727974CPL	117639													
Sample Location	Sample Not Analyzed													
1727975CPL	117651													
Sample Location	Sample Not Analyzed													

Samples received on: Thursday, January 4, 2001

Authorized Signature: _____ Date

Stephen S. Yata, Geologist
Friday, January 5, 2001

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Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1727976CPL	123447													
Sample Location	Sample Not Analyzed													
1727977CPL	123480	-	-	-	-	-	-	40 %	-	-	-	-	60 %	1/4/01
White cloth wall covering		NFM: Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
														Homogeneous
1727978CPL	123479	-	-	-	-	-	-	40 %	-	-	-	-	60 %	1/4/01
White cloth wall covering		NFM: Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
														Homogeneous
1727979CPL	117636	-	-	-	-	-	-	40 %	-	-	-	-	60 %	1/4/01
White cloth wall covering		NFM: Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
														Homogeneous
1727980CPL	123475	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01
Grey plaster ; wht. skim coat		NFM: Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
														Non Homogeneous
1727981CPL	123465	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01
Grey plaster ; wht. skim coat		NFM: Qtz, Carb, Binder, Opaq, Misc. Part.												SSY
														Non Homogeneous

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Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Nonasbestos: Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1727982CPL	123466	-	-	-	-	-	-	1 %	-	-	-	-	99 %	1/4/01
Plaster - NS ; brn. skim coat						NFM: Qtz, Per, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1727983CPL	123436	7 %	3 %	-	-	-	-	-	-	-	-	-	90 %	1/4/01
White pipe insulation						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1727984CPL	123443	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01
White grout						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1727985CPL	123471	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01
Grey ceramic tile ; grey grout						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Non Homogeneous	
1727986CPL	123437	-	-	-	-	-	-	30 %	-	-	-	-	70 %	1/4/01
Blue linoleum						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1727987CPL	123439	-	-	-	-	-	-	<1 %	30 %	50 %	-	-	20 %	1/4/01
Grey insulation						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	

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Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1727988CPL	123462	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
Offwhite plaster ; wht. skim coat						NFM: Qtz, Carb, Binder, Opaq, Mica, Misc. Part.								Non Homogeneous
1727989CPL	123463	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
Offwhite plaster ; wht. skim coat						NFM: Qtz, Carb, Binder, Opaq, Mica, Misc. Part.								Non Homogeneous
1727990CPL	123467	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
Offwhite plaster ; wht. skim coat						NFM: Qtz, Carb, Binder, Opaq, Mica, Misc. Part.								Non Homogeneous
1727991CPL	117622	2 %	-	-	-	-	-	8 %	-	-	-	-	90 %	1/4/01 SSY
Brown floortile ; yellow mastic ; blk. felt						NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								Non Homogeneous
Layer Content:	Floortile 2% Chrysotile ; Other Layer : None Detected													
1727992CPL	117628													
Sample Location	Sample Not Analyzed													
1727993CPL	117626	2 %	-	-	-	-	-	8 %	-	-	-	-	90 %	1/4/01 SSY
Brown floortile ; yellow mastic ; blk. felt						NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								Non Homogeneous
Layer Content:	Floortile 2% Chrysotile ; Other Layer : None Detected													

Samples received on: Thursday, January 4, 2001

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Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1727994CPL	117642													
Sample Location	Sample Not Analyzed													
1727995CPL	117631	-	-	-	-	-	-	8 %	-	-	-	-	92 %	1/4/01 SSY
Beige floortile ; yellow mastic ; blk. felt								NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.						Non Homogeneous
1727996CPL	117624	-	-	-	-	-	-	8 %	-	-	-	-	92 %	1/4/01 SSY
Beige floortile ; yellow mastic ; blk. felt								NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.						Non Homogeneous
1727997CPL	117629	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
Light brn. basecove ; brn. mastic								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.						Non Homogeneous
1727998CPL	117625	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
Light brn. basecove ; brn. mastic								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.						Non Homogeneous
1727999CPL	117627	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
Black base covering ; brn. mastic								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.						Non Homogeneous

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Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1728000CPL	117646	>1 %	-	-	-	-	-	<1 %	-	-	-	-	99 %	1/4/01
Beige tile ; yellow mastic						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
Layer Content:	Tile >1% Chrysotile ; Other Layer : None Detected													Non Homogeneous
1728001CPL	117635													
Sample Location	Sample Not Analyzed													
1728002CPL	117630													
Sample Location	Sample Not Analyzed													
1728003CPL	117658	-	-	-	-	-	-	35 %	-	-	-	-	65 %	1/4/01
Black tile - NS ; brn. linoleum ; yellow mastic						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1728004CPL	117647	-	-	-	-	-	-	35 %	-	-	-	-	65 %	1/4/01
Black linoleum ; ye4llow mastic						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous
1728005CPL	117645	-	-	-	-	-	-	35 %	-	-	-	-	65 %	1/4/01
Black linoleum ; yellow mastic ; brn. linoleum						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
														Non Homogeneous

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Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1728006CPL Tan pipe wrap	117648	90 %	-	-	-	-	-	-	-	-	-	-	10 %	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								Homogeneous
1728007CPL Grey pad	117650	-	-	-	-	-	-	-	-	-	60 %	-	40 %	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								Homogeneous
1728008CPL Brown floortile ; blk. mastic	117641	3 %	-	-	-	-	-	<1 %	-	-	-	-	97 %	1/4/01 SSY
						NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								Non Homogeneous
Layer Content:	Floortile 3% Chrysotile ; Other Layer : None Detected													
1728009CPL Dark brn. basecove ; tan mastic	117638	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								Non Homogeneous
1728010CPL Dark brn. basecove ; tan mastic	117623	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								Non Homogeneous
1728011CPL Grey plaster	117634	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								Homogeneous

Samples received on: Thursday, January 4, 2001

Authorized Signature

Stephen S. Yata, Geologist

Date Friday, January 5, 2001

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Phone (510) 567-0480
Fax (510) 567-0488

Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1728012CPL Grey plaster	117633	-	-	-	-	NFM: Qtz, Carb, Binder, Opaq, Misc. Part.			-	-	-	-	100 % Homogeneous	1/4/01 SSY
1728013CPL Grey plaster	117632	-	-	-	-	NFM: Qtz, Carb, Binder, Opaq, Misc. Part.			-	-	-	-	100 % Homogeneous	1/4/01 SSY
1728014CPL Black vapor barrier	123375	-	-	-	-	NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.		80 %	-	-	-	-	20 % Homogeneous	1/4/01 SSY
1728015CPL Grey basecove ; yellow mastic	123448	-	-	-	-	NFM: Qtz, Carb, Binder, Opaq, Misc. Part.			-	-	-	-	100 % Non Homogeneous	1/4/01 SSY
1728016CPL Black tile ; brn. mastic	123445	-	-	-	-	NFM: Qtz, Carb, Binder, Opaq, Misc. Part.		30 %	-	-	-	-	70 % Non Homogeneous	1/4/01 SSY
1728017CPL Brown tile ; brn. mastic	123461	-	-	-	-	NFM: Qtz, Carb, Binder, Opaq, Misc. Part.		30 %	-	-	-	-	70 % Non Homogeneous	1/4/01 SSY

Samples received on: Thursday, January 4, 2001

Authorized Signature

Stephen S. Yata, Geologist

Date: Friday, January 5, 2001

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

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JAN. 4. 2001 4:49PM R J LEE GROUP INC NO. 5029 P. 10

Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1728018CPL Grey window putty	121156	-	-	-	-	-	-	-	-	-	-	-	100 % Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								
1728019CPL Tan window putty	121187	-	-	-	-	-	-	-	-	-	-	-	100 % Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								
1728020CPL Grey window putty	121213	-	-	-	-	-	-	-	-	-	-	-	100 % Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								
1728021CPL Black roofing cement	121195	4 %	-	-	-	-	-	-	-	-	-	-	96 % Homogeneous	1/4/01 SSY
						NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.								
1728022CPL	121180													
Sample Location	Sample Not Analyzed													
1728023CPL	121181													
Sample Location	Sample Not Analyzed													

Samples received on: Thursday, January 4, 2001

Authorized Signature _____
Stephen S. Yata, Geologist
Date Friday, January 5, 2001

RJ Lee Group, Inc.
Bay Area Lab
530 McCormick Street
San Leandro, CA 94577
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Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1728024CPL Black shingle	121157	-	-	-	-	-	-	60 % NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.	-	-	-	-	40 % Homogeneous	1/4/01 SSY
1728025CPL Black shingle	121184	-	-	-	-	-	-	60 % NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.	-	-	-	-	40 % Homogeneous	1/4/01 SSY
1728026CPL Balck shingle	121182	-	-	-	-	-	-	60 % NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.	-	-	-	-	40 % Homogeneous	1/4/01 SSY
1728027CPL Tan putty	121189	-	-	-	-	-	-	<1 % NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	-	-	-	-	99+ % Homogeneous	1/4/01 SSY
1728028CPL Tan putty	121173	-	-	-	-	-	-	- NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	-	-	-	-	100 % Homogeneous	1/4/01 SSY
1728029CPL Grey anti skid coating	121215	-	-	-	-	-	-	- NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	-	-	-	-	100 % Homogeneous	1/4/01 SSY

Samples received on: Thursday, January 4, 2001

Authorized Signature

Stephen S. Yata, Geologist

Date Friday, January 5, 2001

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

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NO. 5029 P. 12
JAN. 4. 2001 4:50PM R J LEE GROUP INC

Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101020

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1728030CPL	121210	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01
Grey anti skid coating						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1728031CPL	121214	70 %	-	-	-	-	-	10 %	-	-	-	-	20 %	1/4/01
Tan paper ; silver foil						NFM: Qtz, Carb, Binder, Opaq, Other, Misc. Part.								SSY
Layer Content:	Paper 70% Chrysotile ; Other Layer : None Detected												Non Homogeneous	

Samples received on: Thursday, January 4, 2001

Authorized Signature

Stephen S. Yata, Geologist

Date Friday, January 5, 2001

RJ Lee Group, Inc.
Bay Area Lab

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San Leandro, CA 94577

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Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101027

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1727963CPL Grey plaster	123477	-	-	-	-	-	-	-	-	-	-	-	100 % Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Mica, Misc. Part.								
1727964CPL Grey plaster	123337	-	-	-	-	-	-	-	-	-	-	-	100 % Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Mica, Misc. Part.								
1727965CPL Grye plaster ; wht. skim coat	123438	-	-	-	-	-	-	-	-	-	-	-	100 % Non Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Misc. Part.								
1727966CPL Grye plaster ; wht. skim coat	123472	-	-	-	-	-	-	-	-	-	-	-	100 % Non Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Binder, Opaq, Mica, Misc. Part.								
1727967CPL Grey plaster	117643	-	-	-	-	-	-	-	-	-	-	-	100 % Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Opaq, Mica, Misc. Part.								
1727968CPL Grey plaster ; wht. skim coat	117640	-	-	-	-	-	-	-	-	-	-	-	100 % Non Homogeneous	1/4/01 SSY
						NFM: Qtz, Carb, Opaq, Mica, Misc. Part.								

Samples received on: Wednesday, January 3, 2001

Authorized Signature _____

Stephen S. Yata, Geologist

Date Thursday, January 4, 2001

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

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JAN. 4. 2001 4:01PM R J LEE GROUP INC NO. 5025 P. 2/4

Test Report - RGA Environmental , Inc.

Polarized Light Microscopy Analysis Results

Project AOC101027

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Nonasbestos: Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date / Analyst
1727969CPL	123468	-	-	-	-	-	-	-	-	-	-	-	100 %	1/4/01 SSY
Grey plaster ; wht. skim coat						NFM: Qtz, Carb, Opaq, Mica, Misc. Part.								Non Homogeneous

Samples received on: Wednesday, January 3, 2001

Authorized Signature

Stephen S. Yata, Geologist

Date Thursday, January 4, 2001

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Phone (510) 567-0480
Fax (510) 567-0488

JAN. 4. 2001 4:01PM R J LEE GROUP INC NO. 5025 P. 3/4

AOC 10/020

Bulk Chain of Custody Form

RGA Environmental Inc.
4701 Doyle Street, Ste; 14, Emeryville, CA 94608, 510 547-7771

Project #: COAL6017
Building #: White cotton cottage
Building Location : San Leandro

Turn Around Time: 8 hr ☐ Standard ☒

First postive for each homogenous area. Yes ☒ No ☐

02-Jan-01

Homogenous Areas	Sample Number		Check
001	Material Description	Plaster on wood lath	
	121125	NW, upstairs corner room	☒
	121143	SW, upstairs corner room	☒
	123249	Downstairs living room, east wall in front of fire place	☒
	123446	Downstairs small room, NW corner	☒
	117639	Basement, small office	☒
	117651	Downstairs, NW room	☒
	123447	Downstairs, north middle room	☒
003	Material Description	Wall covering, cloth	
	123480	Upstairs west middle room	☒
	123479	Downstairs next to front door	☒
	117636	Downstairs hallway	☒
004	Material Description	Plaster on wire lath	
	123475	SW upstairs corner room	☒
	123465	Kitchen North wall	☒
	123466	Kitchen South wall	☒
005	Material Description	Pipe Insulation	
	123436	Radiator upstairs NE corner bathroom	☒
006	Material Description	Ceramic tile grout	
	123443	Bathroom upstairs, NE corner wall	☒
	123471	Bathroom upstairs, NE corner floor	☒
007	Material Description	Linoleum	
	123437	Upstairs, SE corner bathroom	☒

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

17

Homogenous Areas	Sample Number		Check
008	Material Description	Blown Insulation	
	123439	Crawl space, SE upstairs corner room	
009	Material Description	Plaster over button board	
	123462	Downstairs, NE corner room	
	123463	Downstairs, NE corner bathroom	
	123467	Downstairs, NE corner bathroom	
010	Material Description	12x12 floor tile, lightbrown w/ streaks, w/ mastic barrier	
	117622	Downstairs hallway, Northside	
	117628	Kitchen	
011	Material Description	12x12 floor tile, light brown streaks, w/ mastic/barrier	
	117626	NE corner downstairs room	
	117642	NE corner downstairs room	
012	Material Description	12x12 floor tile, white w/ blue spots, w/ mastic barrier	
	117631	Downstairs kitchen	
	117624	Downstairs kitchen	
013	Material Description	Basecove, light brown	
	117629	Kitchen	
	117625	Kitchen	
014	Material Description	Base covering	
	117627	Bathroom, SE corner of kitchen	
015	Material Description	12x12 patch tiles, Mud room	
	117646	Mudroom	
	117635	Mudroom	
	117630	Mudroom	
016	Material Description	Black and gold floor tile	
	117658	Downstairs, SE corner room	
	117647	Downstairs, SE corner room	

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

18

Homogenous Areas	Sample Number		Check
	117645	Downstairs South middle room	
017	Material Description	Pipe wrap, canvas	
	117648	Basement, SE corner, near exit	
018	Material Description	Carpet pad mastic	
	117650	Downstairs, large office room	
	117641	Downstairs, large office room	
019	Material Description	Basecove, 4" dark brown	
	117638	Large office, basement	
	117623	Large office, basement	
020	Material Description	Plaster over concrete	
	117634	Downstairs, large office	
	117633	Downstairs, large office	
	117632	Downstairs, small office	
021	Material Description	Vapor barrier	
	123375	Behind plywood, living room, SE wall	
022	Material Description	Basecove, 4" and mastic	
	123448	Sunroom, SW, downstairs corner	
023	Material Description	Tile floor	
	123445	Checkerboard floortile, sunroom, SW corner	
	123461	Checkerboard floortile, sunroom, SW corner	
024	Material Description	Window putty	
	121156	NW turret	
	121187	Kitchen window, over sink	
	121213	SE corner, sunroom	
025	Material Description	Roofing cement	
	121195	Chimney	
	121180	Skylight	

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

18

Homogenous Areas	Sample Number		Check
	121181	At pipe penetration	
026	Material Description	Roofing shingles	
	121157	SE corner at ladder	
	121184	East roof (top)	
	121182	North peak	
027	Material Description	Skylight putty	
	121189	Skylight	
	121173	Skylight	
028	Material Description	Anti-skid coating	
	121215	Front porch	
	121210	Front porch	
029	Material Description	Light fixture paper	
	121214	2nd floor, SW room	

Contact Person for these samples is: Ken Pilgrim/Bill McIlhatton

Samples Relinquished by: Johanne Tonna Date: 1/2/00

Samples Received by: [signature] Date: 01-02-01 5:00P

Notes:

9

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

AOC101027

Bulk Chain of Custody Form

RGA Environmental Inc.
4701 Doyle Street, Ste: 14, Emeryville, CA 94608, 510 547-7771

Project #: COAL6017
Building #: White cotton cottage
Building Location : San Leandro
02-Jan-01

Turn Around Time: 8 hr ☐ Standard ☒
First postive for each homogenous area. Yes ☒ No ☐

Homogenous Areas	Sample Number		Check
002	Material Description	Plaster on wood lath	
	123477	NW, upstairs corner room	☒
	123337	West upstairs middle room	☒
	123438	East upstairs middle bathroom	☒
	123472	Downstairs, NW corner by radiator	☒
	117643	Living room wall	☒
	117640	Downstairs North hallway	☒
	123468	Downstairs kitchen steps	☒
003	Material Description	Wall covering, cloth	
	123480	Upstairs west middle room	☒
	123479	Downstairs next to front door	☒
	117636	Downstairs hallway	☒
004	Material Description	Plaster on wire lath	
	123475	SW upstairs corner room	☒
	123465	Kitchen North wall	☒
	123466	Kitchen South wall	☒
005	Material Description	Pipe Insulation	
	123436	Radiator upstairs NE corner bathroom	☒
006	Material Description	Ceramic tile grout	
	123443	Bathroom upstairs, NE corner wall	☒
	123471	Bathroom upstairs, NE corner floor	☒
007	Material Description	Linoleum	
	123437	Upstairs, SE corner bathroom	☒

Report any missing pages immediately. Include the material description with the sampling results. All analyses to be completed by Polarized Light Microscopy (PLM) following EPA Interim method (EPA-600/M4-82-020, Dec 1982).

RJ Lee *Group* , Inc.

350 Hochberg Road Monroeville, PA 15146
Phone (724) 325-1776 Fax (724) 733-1799

LABORATORY REPORT

RGA Environmental
4701 Doyle Street, Suite 14
Emeryville, CA 94608
Attention: Gene Spector
(510) 547-7771 FAX: (510) 547-1983

Analysis: Lead in Paint
Method: EPA SW846-7420 ---- FLAA

RJ Lee Group Job No.: ACC101506
Samples Received: 4-Jan-01
Report Date: 4-Jan-01
Client Project: COAL 6017
White Cotton Cottage
Sampling Date: 28-Dec-00

Sample Identification		Lead	
Client	RJ Lee Group	Weight Percent	Parts per Million
123473	0310237	11.5	115,000
123460	0310238	3.33	33,300
123444	0310239	0.137	1,370
117637	0310240	14.9	149,000
121177	0310241	30.4	304,000
121183	0310242	28.8	288,000
121194	0310243	31.0	310,000
121196	0310244	0.244	2,440
121216	0310245	30.4	304,000

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

S. Paul Cohen, Laboratory Manager ☐
Brandon J. Miller, Assistant Scientist ☐
Ryan B. Walters, Assistant Scientist ☐
Kimberly S. DiNatale, Scientist ☑
Philip Grindle, Supervisor ☐
Melisa Varner, Assistant Scientist ☐
Alan M. Levine, Manager ☐

Please direct inquiries to Brandon J. Miller in Client Services.

Authorized Signature _____

Date 1/4/01

ACC101506

RGA Environmental, Inc. : 4701 Doyle St., Ste. 14 : Emeryville, CA 94608 : (510) 547-7771 Fax (510) 547-1983

LEAD-BASED PAINT SAMPLES

JOB # COAL 6017 BLDG NAME OR # White Cotton Cottage

DATE 12/20/00 PROJECT MGR Steff Steiner PAGE 1 OF 1

SAMPLE #	COMPONENT/LOCATION	COLOR/SUBSTRATE	GOOD	CRACKED/ EST. QUAN.	STRATIFIED/ EST. QUAN.
123473	upstairs, southwest, corner interior windows frame	pink / Wood			✓
COMMENTS:					
123460	door frame paint, main door, north west corner	grey / Wood		✓	
COMMENTS:					
123444	wall, downstairs, middle room north.	pink / Plaster			✓
COMMENTS:					
17687	downstairs, bathroom off kitchen wall	white / Wood			✓
COMMENTS:					
21177	exterior window of kitchen	white / Wood		✓	
COMMENTS:					
121183	shingle paint, northeast corner Exterior	white / Wood			✓
COMMENTS:					
121194	south sun room door threshold - Exterior	white / Wood			✓
COMMENTS:					
121196	black, roof ladder	black / Metal		✓	
COMMENTS:					
121216	Interior wall / Kitchen	white / Plaster			
COMMENTS:					
COMMENTS: 0310237					
COMMENTS: 0310245					
COMMENTS:					
COMMENTS:					

1/4/01 10:00

Relinquished by: [signature] Date & Time: 11/2/2001 1603

Relinquished to: MoNA Date & Time: 11/3/01 2:30 Pm

01-02-01 5:00 P

APPENDIX C

SITE INSPECTOR CERTIFICATES

State of California
Division of Occupational Safety and Health

Certified Asbestos Consultant

Kenneth M. Pilgrim

Name



Certification No. **97-2267**

Expires on **10/15/2001**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code

State of California
Department of Health Services
Lead-Related Construction
Interim Certificate

Kenneth M. Pilgrim

Project Monitor
M-1105 (Exp. 09/22/01)



State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician
William H McIlhattan

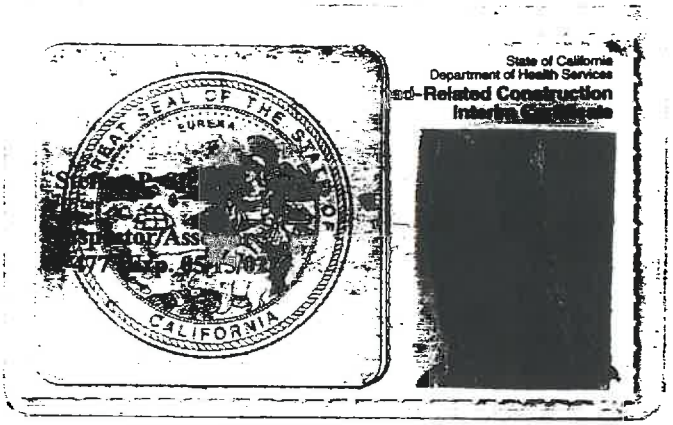


Name [redacted]

Certification No. 99-2791

Expires on 7/2/2001

This certificate was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.



State of California
Division of Occupational Safety and Health

Certified Asbestos Consultant

Steffen Paul Steiner
Name



Certification No. **92-0850**

Expires on **1/8/2002**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code