



September 11, 2025

Ms. Anne Antin
Hawaii Analytical Laboratory, LLC
3615 Harding Ave Ste 308
Honolulu, HI 96816
USA

Dear Anne,

Thank you for participating in the HW0725 Soil / Hazardous Waste PT Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova. This report presents some additional sections and features which will give you more information on the study data for the standards that were reported by your laboratory and more information regarding the overall performance of your laboratory in relation to other study participants.

The enclosed report is in two sections, the "Evaluation Report" and the "Statistical Report". The "Evaluation Report" contains the evaluation of your reported data as well the reported method, analysis date and analyst. The "Evaluation Report" is an updated and enhanced version of the reports you previously received at the conclusion of our PT studies. The "Statistical Report" contains your passing percentage as well as statistics from the study for the analytes reported by your laboratory.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you.

Thank you again for participating in the HW0725 Soil / Hazardous Waste PT Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 866-942-2978.



Report Definitions:

Assigned Value

The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the NELAC Institute (TNI) criteria (ref: TNI FOPT tables, TNI PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation Limits

Acceptance Limits are derived from fixed limits, coefficients, constants and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version), the NELAC Institute (TNI) criteria (ref: TNI FOPT tables, TNI PT Committee) and other documents

Evaluation

Acceptable

The reported value falls within the Acceptance Limits.

Not Acceptable

The reported value falls outside the Acceptance Limits.

No Evaluation

The reported value is non-numeric and can not be evaluated.

NR

As required by the TNI standards and requested by state authorities, any analyte purchased but not reported by your facility is listed as NR (Not Reported).

Study Mean and Standard Deviation

The mean and standard deviation are calculated from the study data using robust statistical calculations when possible. Other statistical calculations may be used if robust statistical calculations are not possible. The displayed values are independent of any statistical calculations required for the



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State Regulatory Agency Request(s):

No requests were made to send a copy of your HW0725 final results to a state agency.

Other Regulatory Agency Request(s):

No requests were made to send a copy of your HW0725 final results to an agency.

Third Party Request(s):

No requests were made to send a copy of your HW0725 final results to a third party.

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Final Report - Soil / Hazardous Waste PT

Study: HW0725

Opening Date: July 21, 2025 - Closing Date: September 4, 2025

Laboratory: Hawaii Analytical Laboratory, LLC
3615 Harding Ave Ste 308
Honolulu, HI 96816
USA

Contact: Ms. Anne Antin
8087350422

EPA Lab ID:

Pesticides (PT-PEST-SOIL)

Lot #: 7101-14

NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
7025	Aldrin	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	410	357.01	122 - 529	Acceptable
7110	alpha-BHC	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	367	315.04	110 - 491	Acceptable
7115	beta-BHC	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	443	414.66	146 - 606	Acceptable
7105	delta-BHC	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	171	152.85	37.8 - 244	Acceptable
7120	gamma-BHC (Lindane)	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	425	370.19	124 - 562	Acceptable
7240	alpha-Chlordane	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	111	101.07	37.9 - 145	Acceptable
7245	gamma-Chlordane	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	259	253.19	109 - 350	Acceptable
7355	4,4'-DDD	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	379	341.06	131 - 501	Acceptable
7360	4,4'-DDE	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	393	351.96	134 - 515	Acceptable
7365	4,4'-DDT	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	271	265.85	63.6 - 374	Acceptable
7470	Dieldrin	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	320	240.25	124 - 422	Acceptable
7510	Endosulfan I	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	79.5	61.55	13.4 - 113	Acceptable
7515	Endosulfan II	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	153	119.20	32.0 - 181	Acceptable
7520	Endosulfan sulfate	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	437	397.04	92.3 - 592	Acceptable
7540	Endrin	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	63.7	61.05	9.34 - 99.0	Acceptable
7530	Endrin aldehyde	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	448	304.85	44.8 - 493	Acceptable
7535	Endrin ketone	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	186	174.14	41.2 - 247	Acceptable
7685	Heptachlor	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	84.6	76.71	23.6 - 123	Acceptable
7690	Heptachlor epoxide	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	395	367.76	146 - 516	Acceptable
7810	Methoxychlor	8/29/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	223	214.24	22.3 - 311	Acceptable

Chlordane (PT-CHLR-SOIL)

Lot #: 7101-15

NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
7250	Chlordane	8/12/2025	es/tr	10178811	EPA 8081B Rev.2 2007	µg/kg	580	487.00	110 - 664	Acceptable

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Study: HW0725

Opening Date: July 21, 2025 - Closing Date: September 4, 2025

Laboratory: Hawaii Analytical Laboratory, LLC
3615 Harding Ave Ste 308
Honolulu, HI 96816
USA

Contact: Ms. Anne Antin
8087350422

EPA Lab ID:

PCBs (PT-PCB-SOIL)										Lot #: 7101-17
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
8880	Aroclor 1016	8/21/2025	es/tr	10179358	EPA 8082A Rev.1 2007	mg/kg	<0.1	<0.1		Acceptable
8885	Aroclor 1221	8/21/2025	es/tr	10179358	EPA 8082A Rev.1 2007	mg/kg	<0.1	<0.1		Acceptable
8890	Aroclor 1232	8/21/2025	es/tr	10179358	EPA 8082A Rev.1 2007	mg/kg	<0.1	<0.1		Acceptable
8895	Aroclor 1242	8/21/2025	es/tr	10179358	EPA 8082A Rev.1 2007	mg/kg	18.7	14.0585	3.95 - 22.3	Acceptable
8900	Aroclor 1248	8/21/2025	es/tr	10179358	EPA 8082A Rev.1 2007	mg/kg	<0.1	<0.1		Acceptable
8905	Aroclor 1254	8/21/2025	es/tr	10179358	EPA 8082A Rev.1 2007	mg/kg	<0.1	<0.1		Acceptable
8910	Aroclor 1260	8/21/2025	es/tr	10179358	EPA 8082A Rev.1 2007	mg/kg	<0.1	<0.1		Acceptable
Additional State Specific Analytes										
8870	Total PCBs	8/21/2025	es/tr	10179358	EPA 8082A Rev.1 2007	mg/kg	18.7	14.0585	3.79 - 21.5	Acceptable

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EPA Lab ID:

TCLP Metals (PT-TCLPMET-SOIL)

Lot #: 7101-52

NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
Additional State Specific Analytes										
1005	Antimony					mg/L	1.45		1.10 - 1.73	NR
1010	Arsenic	8/25/2025	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	3.40	3.1	2.72 - 4.23	Acceptable
1015	Barium	8/25/2025	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	1.92	1.5	1.50 - 2.26	Acceptable
1020	Beryllium					mg/L	3.51		2.57 - 4.21	NR
1025	Boron					mg/L	2.56		1.84 - 3.19	NR
1030	Cadmium	8/25/2025	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	4.43	4.25	3.51 - 5.22	Acceptable
1040	Chromium	8/25/2025	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	2.20	2.03	1.73 - 2.51	Acceptable
1050	Cobalt					mg/L	3.81		2.84 - 4.42	NR
1055	Copper					mg/L	3.22		2.38 - 3.91	NR
1075	Lead	8/25/2025	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	4.03	4.0	3.05 - 4.66	Acceptable
1095	Mercury	8/25/2025	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	1.43	1.203	0.566 - 1.62	Acceptable
1105	Nickel					mg/L	3.15		2.46 - 3.71	NR
1140	Selenium	8/25/2025	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	4.44	4.38	3.41 - 5.46	Acceptable
1150	Silver	8/25/2025	sh	10118806	EPA 1311 Rev.Update I 1992	mg/L	4.46	4.37	2.71 - 5.63	Acceptable
1165	Thallium					mg/L	2.93		1.86 - 3.48	NR
1190	Zinc					mg/L	4.10		3.10 - 5.07	NR

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PT Study Score Report

EPA ID:

Laboratory: Hawaii Analytical Laboratory, LLC
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Study Number	Number of Reported Results	Number of Passing Results	Percent Passing
HW0725	37	37	100%

Report Definitions:

<i>Number of Reported Results</i>	The number of results reported which could be evaluated. Results receiving an evaluation of "NR" or "No Evaluation" are not included.
<i>Number of Passing Results</i>	The number of results reported receiving an evaluation of "Acceptable" or "Check for Error".
<i>Percent Passing</i>	The percentage of results reported receiving an evaluation of "Acceptable" or "Check for Error".



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Statistical Summary Report - Soil / Hazardous Waste PT

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Laboratory: Hawaii Analytical Laboratory, LLC
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Contact: Ms. Anne Antin
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EPA Lab ID:

Pesticides (PT-PEST-SOIL) Lot #: 7101-14

NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
7025	Aldrin	µg/kg	326	68.0	29.8	129
7110	alpha-BHC	µg/kg	301	62.3	30.0	134
7115	beta-BHC	µg/kg	376	85.7	33.0	137
7105	delta-BHC	µg/kg	141	31.0	22.1	143
7120	gamma-BHC (Lindane)	µg/kg	343	66.3	29.2	132
7240	alpha-Chlordane	µg/kg	91.4	13.0	34.1	131
7245	gamma-Chlordane	µg/kg	229	37.7	42.1	135
7355	4,4'-DDD	µg/kg	316	76.8	34.6	132
7360	4,4'-DDE	µg/kg	324	66.4	34.1	131
7365	4,4'-DDT	µg/kg	219	68.2	23.5	138
7470	Dieldrin	µg/kg	273	58.8	38.8	132
7510	Endosulfan I	µg/kg	63.1	11.0	16.9	142
7515	Endosulfan II	µg/kg	106	28.7	20.9	118
7520	Endosulfan sulfate	µg/kg	342	103	21.1	135
7540	Endrin	µg/kg	54.2	13.1	14.7	155
7530	Endrin aldehyde	µg/kg	239	75.9	10.0	110
7535	Endrin ketone	µg/kg	144	38.6	22.2	133
7685	Heptachlor	µg/kg	73.4	14.9	27.9	145
7690	Heptachlor epoxide	µg/kg	331	61.7	37.0	131
7810	Methoxychlor	µg/kg	162	56.5	10.0	139

Chlordane (PT-CHLR-SOIL) Lot #: 7101-15

NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
7250	Chlordane	µg/kg	387	138	19.0	114

PCBs (PT-PCB-SOIL) Lot #: 7101-17

NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
8880	Aroclor 1016	mg/kg	N/A	N/A	N/A	N/A
8885	Aroclor 1221	mg/kg	N/A	N/A	N/A	N/A
8890	Aroclor 1232	mg/kg	N/A	N/A	N/A	N/A
8895	Aroclor 1242	mg/kg	13.1	3.56	21.1	119
8900	Aroclor 1248	mg/kg	N/A	N/A	N/A	N/A
8905	Aroclor 1254	mg/kg	N/A	N/A	N/A	N/A
8910	Aroclor 1260	mg/kg	N/A	N/A	N/A	N/A

Additional State Specific Analytes

8870	Total PCBs	mg/kg	12.6	4.55	20.3	115
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Contact: Ms. Anne Antin
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EPA Lab ID:

TCLP Metals (PT-TCLPMET-SOIL)

Lot #: 7101-52

NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
Additional State Specific Analytes						
1005	Antimony	mg/L	1.46	0.0976	75.9	119
1010	Arsenic	mg/L	3.51	0.248	80.0	124
1015	Barium	mg/L	1.89	0.139	78.1	118
1020	Beryllium	mg/L	3.43	0.203	73.2	120
1025	Boron	mg/L	2.80	0.134	71.9	125
1030	Cadmium	mg/L	4.39	0.349	79.2	118
1040	Chromium	mg/L	2.14	0.251	78.6	114
1050	Cobalt	mg/L	3.77	0.311	74.5	116
1055	Copper	mg/L	3.07	0.348	73.9	121
1075	Lead	mg/L	3.86	0.348	75.7	116
1095	Mercury	mg/L	1.31	0.254	39.6	113
1105	Nickel	mg/L	3.11	0.342	78.1	118
1140	Selenium	mg/L	4.65	0.320	76.8	123
1150	Silver	mg/L	3.69	0.924	60.8	126
1165	Thallium	mg/L	2.67	0.300	63.5	119
1190	Zinc	mg/L	4.12	0.454	75.6	124