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March 21, 2025

Ms. Denise MacDuff  
SGS - Galson Laboratories  
6601 Kirkville Road  
East Syracuse, NY 13057  
USA

Dear Denise,

Thank you for participating in the HW0125 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 HW0125 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):

Phenova has been authorized to send a copy of your HW0125 final results to the following state agencies:

NY

Other Regulatory Agency Request(s):

No requests were made to send a copy of your HW0125 final results to an agency.

Third Party Request(s):

No requests were made to send a copy of your HW0125 final results to a third party.

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## Final Report - Soil / Hazardous Waste PT

### Study: HW0125

**Opening Date: January 27, 2025 - Closing Date: March 13, 2025**

Laboratory: SGS - Galson Laboratories  
6601 Kirkville Road  
East Syracuse, NY 13057  
USA

Contact: Ms. Denise MacDuff, QA Manager  
888-432-5227

EPA Lab ID: NY00056

## Metals (PT-MET-SOIL) Lot #: 7099-04B

NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
1000	Aluminum					mg/kg	17300		10100 - 26000	NR
1005	Antimony					mg/kg	235		23.5 - 280	NR
1010	Arsenic					mg/kg	111		68.2 - 127	NR
1015	Barium					mg/kg	519		346 - 577	NR
1020	Beryllium					mg/kg	248		161 - 273	NR
1025	Boron					mg/kg	495		247 - 575	NR
1030	Cadmium					mg/kg	322		212 - 354	NR
1035	Calcium					mg/kg	7580		4820 - 8340	NR
1040	Chromium					mg/kg	201		123 - 229	NR
1050	Cobalt					mg/kg	101		68.9 - 115	NR
1055	Copper					mg/kg	188		124 - 206	NR
1070	Iron					mg/kg	17500		5580 - 24500	NR
1075	Lead	2/14/2025	GOM	10155905	EPA 6010C Rev.3 2007	mg/kg	360	385.	238 - 401	Acceptable
1085	Magnesium					mg/kg	4480		2720 - 5140	NR
1090	Manganese					mg/kg	954		661 - 1050	NR
1095	Mercury					mg/kg	12.0		6.60 - 15.4	NR
1100	Molybdenum					mg/kg	296		176 - 326	NR
1105	Nickel					mg/kg	295		180 - 334	NR
1125	Potassium					mg/kg	15200		9720 - 17500	NR
1140	Selenium					mg/kg	117		65.1 - 135	NR
1150	Silver					mg/kg	41.1		24.5 - 46.7	NR
1155	Sodium					mg/kg	6080		3620 - 7040	NR
1160	Strontium					mg/kg	122		79.6 - 141	NR
1165	Thallium					mg/kg	312		189 - 343	NR
1175	Tin					mg/kg	62.5		26.3 - 81.3	NR
1185	Vanadium					mg/kg	96.8		54.9 - 114	NR
1190	Zinc					mg/kg	633		387 - 718	NR
<b>Additional State Specific Analytes</b>										
1080	Lithium					mg/kg	1140		679 - 1340	NR

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Metals (PT-MET-SOIL) cont'd										Lot #: 7099-04B
NELAC Code	Analyte	Analysis Date	Analyst	Method Code	Method Description	Units	Assigned Value	Result	Acceptance Limits	Evaluation
Additional State Specific Analytes cont'd										
1180	Titanium					mg/kg	704		63.0 - 1270	NR
1184	Uranium					mg/kg	93.0		62.5 - 108	NR



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## PT Study Score Report

EPA ID: NY00056  
 Laboratory: SGS - Galson Laboratories  
 6601 Kirkville Road  
 East Syracuse, NY 13057  
 USA

Study Number	Number of Reported Results	Number of Passing Results	Percent Passing
HW0125	1	1	100%

### Report Definitions:

- Number of Reported Results**      The number of results reported which could be evaluated. Results receiving an evaluation of "NR" or "No Evaluation" are not included.
- Number of Passing Results**      The number of results reported receiving an evaluation of "Acceptable" or "Check for Error".
- Percent Passing**                      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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EPA Lab ID: NY00056

Metals (PT-MET-SOIL)					Lot #: 7099-04B	
NELAC Code	Analyte	Units	Study Mean	Study Standard Deviation	Low Acceptance Limit %	High Acceptance Limit %
1000	Aluminum	mg/kg	18000	3350	58.4	150
1005	Antimony	mg/kg	110	52.7	10.0	119
1010	Arsenic	mg/kg	97.5	9.78	61.4	114
1015	Barium	mg/kg	461	40.4	66.7	111
1020	Beryllium	mg/kg	214	19.3	64.9	110
1025	Boron	mg/kg	411	48.8	49.9	116
1030	Cadmium	mg/kg	283	25.6	65.8	110
1035	Calcium	mg/kg	6500	542	63.6	110
1040	Chromium	mg/kg	176	16.6	61.2	114
1050	Cobalt	mg/kg	91.9	8.88	68.2	114
1055	Copper	mg/kg	165	13.8	66.0	110
1070	Iron	mg/kg	15100	2130	31.9	140
1075	Lead	mg/kg	319	37.5	66.1	111
1085	Magnesium	mg/kg	3930	468	60.7	115
1090	Manganese	mg/kg	842	83.9	69.3	110
1095	Mercury	mg/kg	11.0	1.32	55.0	128
1100	Molybdenum	mg/kg	245	25.2	59.5	110
1105	Nickel	mg/kg	257	25.9	61.0	113
1125	Potassium	mg/kg	13600	1360	63.9	115
1140	Selenium	mg/kg	100	10.4	55.6	115
1150	Silver	mg/kg	35.6	3.58	59.6	114
1155	Sodium	mg/kg	5330	375	59.5	116
1160	Strontium	mg/kg	110	10.9	65.2	116
1165	Thallium	mg/kg	259	28.9	60.6	110
1175	Tin	mg/kg	53.8	4.74	42.1	130
1185	Vanadium	mg/kg	84.6	11.9	56.7	118
1190	Zinc	mg/kg	553	52.4	61.1	113
Additional State Specific Analytes						
1080	Lithium	mg/kg	1010	78.9	59.6	118
1180	Titanium	mg/kg	630	190	8.95	180
1184	Uranium	mg/kg	85.0	7.07	67.2	116