



# Certificate of Analysis

Report CoA-2026-00822 · 3 samples · 3 methods · FINAL

## CLIENT & PROJECT

CLIENT	CLIENT CODE	STATE	PROJECT MANAGER
VHB Engineering	VHB	NH	Dennis Byrne
REPORT STATUS	VERSION	GENERATED	RELEASED
FINAL	1	6/1/2026, 3:32:51 AM	6/8/2026, 3:32:51 AM

## SUMMARY OF FINDINGS

SAMPLES	TOTAL RESULTS	EXCEEDANCES	HOLDING TIME NON-COMPLIANT	METHODS
3	17	0	8	EPA 8260C, EPA 8270D, EPA 6020B

## LABORATORY ACCREDITATION

### EPA VT00045

UCMR 5 PFAS · SDWA Compliance Monitoring · expires 2027-06-30 · US EPA Region 1

### NH NH-200405

Drinking Water (Env-Dw 700) · Wastewater (NPDES) · PFAS · expires 2027-06-30 · NH DES

### NY NY11849

Subpart 5-1 Drinking Water · Non-Potable Water (NELAP) · Solid & Hazardous Waste -- expires 2027-03-31 · NYS DOH ELAP

### ISO\_17025 L18-0445

ISO/IEC 17025:2017 · expires 2027-09-15 · A2LA

### VT VT-LAB-0045

Drinking Water (VT WSR) · Wastewater (NPDES) · Solid Waste · expires 2026-12-31 · VT Department of Health

## AUTHORIZATION

*Harry Locker*

LABORATORY DIRECTOR · 6/8/2026

CLIENT ACKNOWLEDGMENT · DATE



**SAMPLE RECEIPT SUMMARY**

Samples were received at the laboratory under chain-of-custody. Receipt conditions were verified per Endyne QA-SOP-04 against acceptance criteria for cooler temperature (0-6°C), tamper seal integrity, container condition, and preservation. Findings per sample appear below.

ACCESSION	SITE	MATRIX	CONTAINER	PRES.	COOLER °C	CONT. COND.	PH CHK	HT
ENV-2026-04763	VHB-MANCH-B12	SOIL	40mL VOA vial	HCl	2.7	INTACT	1.6	<b>PASS</b>
ENV-2026-04764	VHB-MANCH-B12	SOIL	1L amber glass	iced	2.7	<b>ICE_MELTED</b>	n/a	<b>PASS</b>
ENV-2026-04765	VHB-MANCH-B12	SOIL	250mL HDPE	HNO3	2.7	INTACT	1.4	<b>PASS</b>

**CHAIN OF CUSTODY**

COC #	COOLER ID	SEALS	SHIPPING
COC-2026-0364	CLR-217	100739,100740 intact	FedEx 7771581324492
COC #	COOLER ID	SEALS	SHIPPING
COC-2026-0364	CLR-217	100739,100740 intact	FedEx 7771581324492
COC #	COOLER ID	SEALS	SHIPPING
COC-2026-0364	CLR-217	100739,100740 intact	FedEx 7771581324492



**CASE NARRATIVE**

Receipt observations: 1 sample(s) noted with container condition flags: ENV-2026-04764 (ice melted). Each item was reviewed by the receiving technician and judged not to affect data quality unless flagged on the affected result(s).

8 result(s) were generated outside the method-specified holding time. Affected results are qualified appropriately and noted in the analytical results table. Reported values may be biased low and should be interpreted with caution.

Quality control performance for the analytical batch met all method criteria except as flagged. Method blanks were prepared in parallel with each batch and were below the reporting limit for the target analytes. Laboratory Control Sample (LCS) recoveries were within the 80-120% acceptance window for inorganic methods and within method-specific limits for organic methods. Surrogate spike recoveries were within method acceptance criteria for the organic compound determinations.

No analyte exceeded the published EPA Maximum Contaminant Level (MCL) or other listed regulatory limits in this report.

Analytical methods used in this report: EPA 8260C, EPA 8270D, EPA 6020B. All work performed in-house at Endyne Laboratories LLC under the cited accreditation programs. No tests were subcontracted.

**METHODS USED**

METHOD	NAME	REFERENCE	CFR / CITATION	HT	PRO-GRAM
EPA 8260C	Volatile Organic Compounds by GC-MS	EPA SW-846	40 CFR 261 / SW-846	14d	RCRA
EPA 8270D	Semivolatile Organic Compounds by GC-MS	EPA SW-846	40 CFR 261 / SW-846	7d	RCRA
EPA 6020B	Metals by ICP-MS	EPA SW-846	40 CFR 261 / SW-846	180d	RCRA



**QUALITY CONTROL SUMMARY**

Method blanks, Laboratory Control Samples (LCS), Matrix Spike / Matrix Spike Duplicate (MS/MSD), and applicable surrogates were prepared with each analytical batch. Results below reflect the QC performance for the batch in which client samples were analyzed.

**Method Blank · LCS · MS/MSD**

METHOD	METHOD BLANK	LCS %REC	LCS LIMITS	MS %REC	MSD %REC	RPD %	RPD LIMIT	STATUS
EPA 8260C	< RL	108 %	80-120 %	107 %	89 %	18.4 %	d 20 %	<b>PASS</b>
EPA 8270D	< RL	108 %	80-120 %	107 %	90 %	17.3 %	d 20 %	<b>PASS</b>
EPA 6020B	< RL	106 %	80-120 %	105 %	111 %	5.6 %	d 20 %	<b>PASS</b>

**Surrogate Recoveries**

METHOD	SURROGATE	RECOVERY %	LIMITS	STATUS
EPA 8260C	Toluene-d8	100 %	70-130 %	<b>PASS</b>

**ANALYTICAL RESULTS**

Results below were obtained for samples covered by this CoA. Qualifier definitions appear at the end of this section.

SAMPLE	METHOD	ANALYTE	RESULT	UNITS	MDL	RL	LIMIT	QUAL	FLAG
ENV-2026-04763	EPA 8260C	Benzene	J 0.20	µg/L	0.2	0.5	5	J	NONE
ENV-2026-04763	EPA 8260C	Toluene	1.01	µg/L	0.2	0.5	1000		NONE
ENV-2026-04763	EPA 8260C	Trichloroethylene	J 0.26	µg/L	0.2	0.5	5	J	NONE
ENV-2026-04763	EPA 8260C	MTBE	J 0.77	µg/L	0.5	1	70	J	NONE
ENV-2026-04763	EPA 8260C	Vinyl Chloride	< 0.5	µg/L	0.2	0.5	2	U	NONE
ENV-2026-04763	EPA 8260C	Tetrachloroethylene	0.55	µg/L	0.2	0.5	5		NONE
ENV-2026-04764	EPA 8270D	Naphthalene	J 0.99	µg/L	0.5	1	—	J	NONE
ENV-2026-04764	EPA 8270D	Benzo[a]pyrene	J 0.09	µg/L	0.05	0.1	0.2	J	NONE
ENV-2026-04765	EPA 6020B	Lead	2.84	µg/L	0.5	1	15		NONE
ENV-2026-04765	EPA 6020B	Arsenic	J 0.86	µg/L	0.5	1	10	J	NONE
ENV-2026-04765	EPA 6020B	Mercury	0.35	µg/L	0.1	0.2	2		NONE
ENV-2026-04765	EPA 6020B	Cadmium	0.54	µg/L	0.2	0.5	5		NONE
ENV-2026-04765	EPA 6020B	Chromium	7.36	µg/L	1	2	100		NONE
ENV-2026-04765	EPA 6020B	Copper	53.30	µg/L	1	2	1300		NONE
ENV-2026-04765	EPA 6020B	Iron	0.47	mg/L	0.02	0.05	—		NONE
ENV-2026-04765	EPA 6020B	Manganese	11.93	µg/L	1	2	—		NONE
ENV-2026-04765	EPA 6020B	Zinc	< 10	µg/L	5	10	—	U	NONE

Data Qualifier Definitions — U: analyte not detected at or above the Method Detection Limit (MDL). J: estimated value (detected between MDL and Reporting Limit, RL). B: blank contamination detected. E: result above calibration range and may be biased. RL: Reporting Limit, the lowest concentration reported as quantitative. MDL: Method Detection Limit per 40 CFR 136 Appendix B. MCL: EPA Maximum Contaminant Level, applicable to drinking water under 40 CFR 141.

Regulatory References — Methods cited per 40 CFR 136 for CWA / NPDES compliance, 40 CFR 141 for SDWA / drinking water primacy, 40 CFR 261 for RCRA waste characterization, 21 CFR 110 / FSMA for food microbiology, ISO/IEC 17025:2017 for laboratory competence. Accreditation programs and certification numbers appear on the cover page. This report shall not be reproduced except in full, without the written approval of Endyne Inc. Results reported relate only to items tested. Test results meet all requirements of ISO/IEC 17025:2017 and applicable state/EPA accreditation programs except as noted in the Case Narrative.