

## Microbac Laboratories, Inc., Lee CERTIFICATE OF ANALYSIS E5D0355

**Project Description** 

Cheshire Water Department - 1058000

For:

Nick Bruzzi

#### **Housatonic Basin Sampling & Testing**

80 Run WAY

Lee, MA 01238

hank

Director, Environmental Ron Warila

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Lee. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.



## Lead and Copper Water Quality Parameter Report Initial Sampling

I. PWS INFORMA	TION: Please refer to your DEP Wate	er Quality Sampling Schedule (WQSS) to he	nelp complete this form	
PWS ID #:	1058000 City / Town:	: Cheshire	Sample Collection Date: 04/15/2025	
PWS Name:	Cheshire Water Department			
Number o	of Distribution Samples Required:	Number of Dist	tribution Tap Samples Submitted:	
Number	of Entry Point Samples Required:	Number of	of Entry Point Samples Submitted:	
SAMPLE NOTES				

#### II. ANALYTICAL LABORATORY INFORMATION

		Field Pa	arameters		Parameter									
	Sample Site Address	рН	Temperature (°F)	Alkalinity (mg/L)	Conductivity (µmho/cm)	Calcium (mg/L)	Orthophosphate* (mg/L)	Silica* (mg/L)						
10007	State Police Bldg		0.104											
10007	Point of Entry Post Bld 02G&03G	7.86	63.32	188	559	57.0		ĺ						
* Required wh	en using corrosion control inhibitor containing	g phosphate o	r silicate compou	inds.	•		•							
I certify u authorized to	nder penalties of law that I am the person fill out this form and the information containe and complete to the best extent of my know	nature: 🧹	R. h	hil										
		leuge				Date: 4/2	8/2025							
	If not submitting results electronically, mail	I TWO copies	of this report to	your DEP Regi	onal Office no late	r than 10 day	s after the end of the n	nonth						

If not submitting results electronically, mail <u>TWO</u> copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS	S (Initial & Date)	Review	□ WQTS
□ Accepted	Disapproved	Comments	Data Entered



# Nitrate Report

I. PWS	WS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form																		
PWS ID #: 1058000									City / Town: Cheshire										
PWSN	lame:	Cheshir	e Water Depa	artment						PWS Cla	птис 🗌								
	DEP LOCAT (LOC) ID	TION )#		ſ	DEP Location N	ame			Sample Ir	nformation	Sample Acidified?	Date Collected	Collected By						
Α									( <b>M</b> )ultiple ( <b>S</b> )ingle	(R)aw (F)inishe	ed Yes								
в	10007		Point of Entr	y Post	Bld 02G&03	G		x	( <b>M</b> )ultiple ( <b>S</b> )ingle	04/15/2025	C. Beckwith								
с									(M)ultiple (S)ingle	(R)aw	ed Yes								
D		(M)ultiple □ (R)aw □ (S)ingle □ (F)inished																	
	Routi	ine or		Ori	ainal Resubmi	tted or				I	f Resubmitted Report, I	ist below							
	Special	Sample		C	Confirmation Re	eport		(1) Reason for Resubmission (2) Collection Date of Orig											
Α	RS	SS	Origina	I 🗌 R	esubmitted	Confir	mation		Resample	Reanalysis	Report Correction								
В	XRS	SS	Origina	I 🗌 R	esubmitted	Confin	mation		Resample	Reanalysis	Report Correction								
С	RS	SS	Origina	I R	esubmitted	Confir	mation		Resample	Reanalysis	Report Correction								
D	RS	SS	Origina		esubmitted	Confir	mation		Resample	Reanalysis	Report Correction								
	SAMPLE	E NOTES	· (Such as, if a	Manifold	/Multiple sam	ple, list	the sources that	were	on-line during	sample colle	ction).								
A																			
В																			
					<b>~</b> 11														
II. AN/	ANALYTICAL LABORATORY INFORMATION																		
Prima	ry Lab M	A Cert. #	<b>t:</b> M-MA1 <sup>*</sup>	146	Primary La	b Nam	e: Microbac	Labo	ratories, Inc.,	Lee		Subcontract?	' (Y/N) Y						
Analy	sis Lab N	MA Cert.	#: M-CT00	)8	Analysis L	ab Nan	ne: Microbac	Labo	ratories, Inc	Dayville									
	NITRAT Result (m	TE ng/L)	Result Qualifier	mcl (mg/L)	MDL (mg/L)	MR (mg/	L Dilution L) Factor		Lab Me	ethod	Date Analyzed		Lab Sample ID#						
A				10							0.4/4.0/00.05								
B	1.33			10 10	0.0260	0.050	. 1.	00 31	M 4500-NC	03 F-200(	04/16/2025	E5D035	55-02						
D				10															
Finis Finis Noti	shed wate shed wate fy MassD	er results er results DEP of an	equal to or e exceeding th y MCL excee	xceedir e MCL dances	ng ½ of the N of 10 mg/L r	MCL (5 require	mg/L) triggers s confirmation	quar samp	terly monito bling within 2	ring. 24 hours.		1							
	Lab Sam	ple Note	s			F	Result Qualifie	r	Result Qua	alifier Descr	iption								
Α																			
В																			
C																			
		l certify un	der nenalties o	f law the	t I am the new	rson			 				, . ,						
author	rized to fill	out this fo	rm and the info	ormation	contained he	rein is			Primary Lab	Director Si	gnature:	17. h	ank						
true, a	accurate a	nd comple	te to the best e	xtent of	my knowledg	e		Date: 4/28/2025											
	In accord month in v	dance with which the re	310 CMR 22.15(2 sults are received	2), if maili d <u>or</u> no lai	ng paper report ter than 10 days	s, <u>TWO</u> o s after the	copies of this report e end of the monito	t must ring pe s abov	must be received by your MassDEP Regional Office no later than 10 days after the ring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline above										
DEP	PREVIEV	V STATU	S (Initial & Da □ Disappre	te) oved			Review Comments	/ ;		□ WQTS Data Entered									



## Massachusetts Department of Environmental Protection - Drinking Water Program Secondary Contaminant Report

I. PWS INFORM	2WS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form																			
PWS ID #:	10580	000				c	ity / Town:	vn: Cheshire												
PWS Name:	Ches	hire Water Depar	tment						PWS C	lass:	сом 🗵 м	тис [	гис 🗌 тис 🗌							
DEP LOCATIO (LOC) ID#	)N		ſ	DEP Location	Name				Sample Informat	ion	Date Collected	Co	ollected By							
10007		Point of Entry	Post Bld (	)2G&03G					□ (M)ultiple □ (R   ⊥ (S)ingle ⊥ (F	)aw )inished	04/15/25	C. Be	ckwith							
Routine or			Original, Res	submitted or		_				ed Report, list	Drt, list below									
Special Samp	le		Confirmati	ion Report			(1	I) Re	ason for Resubmission		(2) Collection Da	te of Orig	inal Sample							
XRS SS Original Resubmitted Confirmation Resample Reanalysis Report Correction																				
SAMPLE NOTES	<b>S</b> - (Suc	h as, if a Manifold/I	Multiple samp	ole, list the so	ources the	at were on-l	ine during sa	amp	le collection).											
II. ANALYTICAL LABORATORY INFORMATION																				
Primary Lab MA	A Cert.	#: M-MA1146	Prima	ry Lab Nan	ne:	Microbac La	boratories,	Inc.,	Lee	Sub	contract? (Y	/N)	Y							
Contamina	ant	Result	Result Qualifier	SMCL	Lab MDL	Lab MRL	Dilution		Lab Method	Date Analyz	ed Analysis MA Cert	Lab	Analysis Lab Sample ID#							
ALKALINITY (CA	CO3),	188		None	1.00	1.00	1.00	SI	M 2320 B-1997	04/18/202	5 M-CT0	)8 I	E5D0355-02							
	D3/L)				0.0010	0.010	2 1.00	-	DA 200 8 Dy 54 (1004)	04/17/202	5 M CT0		E5D0255.02							
	L)	57.0		0.2	0.001	1 0.050	0 1.00		PA 200.0, RV. 3.4 (1994)	04/17/202	5 M-CT0		E5D0355-02							
	)	93.9		250	1 31	4 00	4 00		PA 200.7, RV. 4.4 (1994)	04/18/202	5 M-CT0		E5D0355-02							
	-/		V1	250	1.01	1	1.00	SI	M 2120 B-2001	04/15/202	5 M-CT0	18	E5D0355-02							
COPPER (mg/L)		0.0525		10	0.0000	0.001	0 1.00	EF	PA 200.8. Rv. 5.4 (1994)	04/17/202	5 M-CT0	08	E5D0355-02							
IRON (mg/L)		ND		03	0.0042	0 0.050	0 1.00	EF	PA 200.7. Rv. 4.4 (1994)	04/17/202	5 M-CT0	08	E5D0355-02							
MANGANESE (m	ng/L)	ND		0.05*	0.00058	84 0.0020	04 1.00	EF	PA 200.7, Rv. 4.4 (1994)	04/17/202	5 M-CT0	)8	E5D0355-02							
MAGNESIUM (m	g/L)	20.1	Y1	None	0.0089	0.051	0 1.00	EF	PA 200.7, Rv. 4.4 (1994)	04/17/202	5 M-CT0	)8	E5D0355-02							
HARDNESS (CA	CO3),	225		None	0.0878	8 0.210	) 1.00	SI	M 2340 B-2011	04/17/202	5 M-CT0	)8 I	E5D0355-02							
TOTAL (mg CaCO	D3/L)	4.07			0.040	7 0.00	1.00			04/47/000										
POTASSIUM (mg	I/L)	1.07	Y1	None	0.043	0.204	1.00	E	PA 200.7, RV. 4.4 (1994)	04/17/202										
	)	0.37		None	0.04	0.10	1.00	51	M 2130 B-2001	04/15/202										
		7.86	¥1	3	1		1.00	51	M 4500 H 2000	04/15/202	5 M CT0		E5D0355-02							
SILVER (mg/L)			Н	6.5-8.5	0.0000	13 0.001	1.00		PA 200 8 Ry 5 4 (1994)	04/13/202	5 M-CT0		E5D0355-02							
SILVER (IIIg/E)		11.5		0.10	2 50	5 0.001	1.00	SI	M 4500-SO4 <sup>-</sup> E-1997	04/21/202	5 M-CT0		E5D0355-02							
	FD	375		250	2.00	10.0	1.00	SI	M 2540 C-1997	04/24/202	5 M-CT0	08	E5D0355-02							
SOLIDS (mg/L)				000																
ZINC (mg/L)		ND		5	0.0020	0 0.005	1 1.00	E	PA 200.8, Rv. 5.4 (1994)	04/17/202	5 M-CT0	08	E5D0355-02							
* EPA has establi	shed a l	lifetime Health Advi	sory (HA) for	manganese	e at 0.3 m	g/L and an	acute HA at	1.0	mg/L.											
Lab Analysis C	omme	nts			Result (	Qualifier	Result C	Qual	lifier Description											
						H1	Sample was	s rece	eived past holding time.											
						¥1	Accreditation	n is n	not offered by the accrediting b	ody for this anal	yte.									
l c authorized to fill out	certify un this form	der penalties of law th and the information of	at I am the per contained here	rson in is			Primary	Lat	Director Signature:	1	7. h	an	·							
true, accurate and c	omplete	to the best extent of n	ny knowledge						Date:	4/28/2025	5									
In accordance with 310 C received <u>or</u> no later than	CMR 22.15( 10 days at	2), if mailing paper report fter the end of the monitor	s, <u>TWO</u> copies of ring period, which	this report must never is sooner.	be received Please note:	by your MassE Electronic repo	EP Regional Off orting (eDEP) dea	ice no adline	o later than 10 days after the end e is the same as above.	of the month in w	hich the results ar									
DEP REVIEW	STATU	IS (Initial & Date)				Review						ΠW	QTS							
Accepted		Disapprove	d		Cor	nments						Data	Entered							



### ADDITIONAL ANALYSIS NOT REPORTED ON MA DEP FORMS

					E5D0355									
PWS ID #:	1058000						City / Town	: Cheshire						
PWS Name:	Cheshire	Water De	partment											
Client Sample	ID: Stat	te Police I	Bldg											
Sample Matrix	: Drir	nking Wat	er				Collected By	r: C. Be	ckwith					
Lab Sample ID	: <b>E5</b> C	0355-01					Collection D	ate: 04/15	/2025 8:25					
			Analyses S	subcontracted to:	Microbac La	boratories, I	Inc Dayville							
Analyses Subcontracted to: Microbac Laboratories, Inc Dayville Analyzed at Facility: Microbac Laboratories, Inc Dayville														
Inorganics Total				<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Note</u>	Prepared	<u>Analyzed</u>					
Method: EPA 3	865.1, Rv. 2	2 (1993)												
Orthophosphate	as P			0.104	0.0100	mg/L	Y	04/15/25 2352	04/16/25 0237	DCH				
Phosphorus as F	D			0.120	0.0106	mg/L	Y1	04/21/25 1805	04/22/25 1121	CLW				

	AY 1338	622	00-250415	/o: 11		Preserved Preserved																										
	RUNV:	-1 MIN (	# 10580	# of V	ALYSIS																											
	6		BST P.O.		CAL AN		_			+							_	-	+-	-	Ц >	_		_								
	1631		1-		CHEMI	S92 AM			×	<							+				<u> </u>	_	1	+	+	NOTES				:		
						etertin			×	<	_									1		И	$\mathbb{N}$							1		
	R		A			Phosphates	_		×	:	_		_				_	_	-				2							:		
	1			bu		Orthophosphate			-	-	_		+						-		1	1		_						1		
			0	Sti		BACTERIA 9223 QT	f	-	+	-	/									$\left  \cdot \right $	+	-	_					١	L	J		
				le.	MICRO BIOLOGY	A\9 5226 AI77A8			}¢				٤,															٢	7			utations.
sato		1	<u>aSi</u>	ి 🛛		BACTERIA HPC	P	\$	510			-		-														1		-		cable rec
Hou H		1	ň	อ๊ป		(Free) Chiz Res			5																		0	ſ	V			I and and
		.		$\overline{\overline{a}}$	Ω	422 JimanaT VU bleifi			Ţ																		1 2 1	1.1				Water
		.	ato	Ē	ORDE	Field UV Absorb 254	T					_					T							1		LIME		1				Dinking
JSTO			n Sig	0.a	LD REC	Field Turbitity (NTU)						1					+							╈	$\uparrow$	DATE/	Ň	6				l Federal
OF CL			Ō`		HE	нq	╋		-		+	T						+					-		+		1					State and
IAIN				$\square$		Temp F*		-				+				-		$\top$			-	+	-		$\left  \right $		X	1-12				with all
N RECORD   CH						SAMPLER	Claude Beckwith	Claude Beckwith	Claude Beckwith	Claude Beckwith	Claude Beckwith	Claude Beckwith																>				g shall be in compliance
LE COLLECTIOI						DATE/TIME	4/15/25 8:25 AM	4/15/25 9:10 AM	4/15/25 8:40 AM	4/15/25 9:00 AM	4/15/25 8:45 AM	4/15/25 8-50 AM																				icBasin.com. Lab testin
SAMP	SHIRE WATER DEPT	00	ire		APLE INFORMATION	LOCATION DESCRIPTION	STATE POLICE BLDG-	75-SOUTH ST. ADAMS COMMUNITY BANK (REP)-	POE POST BLD 02G/03G [10007]-	WHERDTANK	NEW WEAT 01G-	WELL 020-														USIULT HANSEER	( X Matter X)	Lanner				I Private or otherwise noted. Email report to: Admin@Housaton
	CHES	10580	Chesh	COM	SAN	Chem Sample			[10007]		[RW1]	[RW2]			T											V	J	Z.				signaled
	۔ نیز	,	N:	SS: (		AIRJETOA8 DI 930	[003]	[004]	[EP1]	STOR1]	[RW1]	[RW2]		-							+					$\left  \right $			ED >	2		P unless de
	WS NAM	PWS ID.	WS TOW	WS CLA		SAMPLE	[RS]	[RS]	[RS]	[RS]	[RW]	[RW]										+					SAMPLER	RECEIVED	INQUISH	RECEIVED	INQUISH	mit via EDE
	<u>n</u>		٩.	₫.		٩																							REI	Ĺ	REI	Note: Sub

Page 6 of 6

Z