



Rapporto di prova n°:	250744-002	
Descrizione:	Effluent wastewater	Spettabile:
Accettazione:	250744	VITALE BARBERIS CANONICO S.p.A.
Data Prelievo:	03-lug-25	Municipalità di Trivero - Via Diagonale, 296
Data Arrivo Camp.:	03-lug-25	Data Inizio Prova: 03-lug-25
Data Rapp. Prova:	04-ago-25	Data Fine Prova: 31-lug-25
Data Stampa Rapp. Prova:	04-ago-25	
Tipo Prove:	Acqua scarico (in acque superficiali)	
Rif. Legge/Autoriz.:	ZDHC Waste Water Guideline rev. 2.2	
Prelevatore:	Simone Thomas Colombo	
Mod. Campionam.:	ZDHC Waste Water Guideline *	

Prova	U.M	Valore	Incertezza	Metodo	L.Min.	L.Max.	LOQ	Data Fine Prova
Antimony	mg/l	0,001	± 0,000	UNI EN ISO 17294-2:2023		0,1	0,0005	08/07/2025
Chromium (VI)	mg/l	0,0271	± 0,0030	EPA 7199 1996		0,05	0,0005	04/07/2025
Barium	mg/l	0,027	± 0,005	UNI EN ISO 17294-2:2023			0,005	08/07/2025
Selenium	mg/l	< 0,0005		UNI EN ISO 17294-2:2023			0,0005	08/07/2025
Tin	mg/l	< 0,005		UNI EN ISO 17294-2:2023		-	0,005	08/07/2025
Arsenic	mg/l	< 0,0005		UNI EN ISO 17294-2:2023		0,05	0,0005	08/07/2025
Chromium total	mg/l	0,077	± 0,016	UNI EN ISO 17294-2:2023		0,2	0,0005	08/07/2025
Cobalt	mg/l	0,0140	± 0,0025	UNI EN ISO 17294-2:2023		0,05	0,005	08/07/2025
Cadmium	mg/l	< 0,0005		UNI EN ISO 17294-2:2023		0,1	0,0005	08/07/2025
Copper	mg/l	0,075	± 0,007	UNI EN ISO 17294-2:2023		1	0,005	08/07/2025
Lead	mg/l	< 0,0005		UNI EN ISO 17294-2:2023		0,1	0,0005	08/07/2025
Nickel	mg/l	< 0,0005		UNI EN ISO 17294-2:2023		0,2	0,0005	08/07/2025
Silver	mg/l	0,056	± 0,012	UNI EN ISO 17294-2:2023		0,1	0,005	08/07/2025
Zinc	mg/l	0,056	± 0,010	UNI EN ISO 17294-2:2023		5	0,005	08/07/2025
Mercury	mg/l	< 0,0001		UNI EN ISO 17294-2:2023		0,01	0,0001	08/07/2025
pH	a 25°C	7,7	± 0,3	UNI EN ISO 10523:2012	5,5	9,5	0,01	03/07/2025
Temperature difference	°C	6,4		APAT CNR IRSA 2100 Man 29 2003		15	0,1	03/07/2025
Discharged water temperature	°C	33,9		APAT CNR IRSA 2100 Man 29 2003				03/07/2025

► I parametri contraddistinti dal simbolo a lato sono fuori limite.

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Pagina 1\5

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Receiving water temperature	°C	27,5		APAT CNR IRSA 2100 Man 29 2003				03/07/2025
E.coli	MPN/100 ml	910	670-1230	ISO 9308-2: 2012		126	1	04/07/2025
Colore				UNI EN ISO 7887 Met.B:2012		N.P.(1:20)		04/08/2025
Colour (436nm)	m-1	3,4	± 0,1	UNI EN ISO 7887 Met.B:2012		7	1	04/07/2025
Colour (525nm)	m-1	2,6	± 0,0	UNI EN ISO 7887 Met.B:2012		5	0,5	04/07/2025
Colour (620nm)	m-1	2,0	± 0,0	UNI EN ISO 7887 Met.B:2012		3	1	04/07/2025
* Persistent Foam	Absent/Present	Absent		.			0	03/07/2025
* Wastewater Flowrate	m3/day	865		.				03/07/2025
Ammonium-Nitrogen	mg/l	< 0,1		ISO 7150-1:1984		10	0,1	04/07/2025
* AOX	mg/l	0,13		UNI EN ISO 9562		3	0,05	07/07/2025
* #Biochemical Oxygen Demand (BOD5)	mg/l	19,2		ISO 5815-1:2019		30	8	28/07/2025
Chemical Oxygen demand (COD)	mg/l	77	± 12	ISO 15705:2002		150	6,9	04/07/2025
* Dissolved Oxygen (DO)	mg/l	5,1		ISO 5814		4		03/07/2025
Oil & Grease	mg/l	0,120	± 0,025	ISO 9377-2		10		22/07/2025
* #Phenols	mg/l	0,2		ISO 6439:1990		0,5	0,001	28/07/2025
Total Chlorine	mgCl ₂ /l	< 0,05		UNI EN ISO 7393-2:2018		1	0,05	03/07/2025
* Total Dissolved Solids (TDS)	mg/l	930		UNI EN 15216: 2021			0,2	08/07/2025
Total Nitrogen	mgN/l	6,3	± 0,9	UNI EN ISO 11905-1:2001		20	1,83	07/07/2025
* Total Phosphorus	mg/l	0,63	± 0,10	UNI EN ISO 17294-2:2016		3	0,1	08/07/2025
Total Suspended Solids (TSS)	mg/l	< 5		UNI EN 872:2005		50	5	04/07/2025
Chloride	mg/l	40,9	± 1,4	UNI EN ISO 10304-1:2009			0,17	04/07/2025
* #Cyanide, total	mg/l	< 0,01		ISO 6703 6703-1,2,3:1984		0,2	0,01	31/07/2025
Sulfate	mg/l	397	± 12	UNI EN ISO 10304-1:2009			0,05	04/07/2025
* #Sulfide	mg/l	< 0,1		ISO 10530		0,5	0,01	31/07/2025

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Pagina 2\5

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Sulfite	mg/l	< 0,2		UNI EN ISO 10304-3:2000		2	0,2	04/07/2025

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Pagina 3\5

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Prova	U.M	Valore	Incertezza	Metodo	L.Min. L.Max.	LOQ	Data Fine Prova
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OVERALL CONFORMITY OF THE SAMPLE SUBMITTED FOR ANALYSIS

The parameter "Escherichia Coli" does not comply with the "Foundational" limit value set by the ZDHC protocol "Wastewater_Guidelines_V2.2_Sept24" (also taking into account uncertainty), as stipulated in our Decision Rule we applied.

The parameters "total phosphorus", "colour", "BOD5", "Silver" and "Total phenols" comply with the "Foundational" limit value provided by the ZDHC protocol "Wastewater_Guidelines_V2.2_Sept24" (also taking into account the uncertainty), as per our Decision Rule.

The parameters "Total Nitrogen", "Chromium VI", "Chromium total", "Cobalt", "AOX", "Temperature difference" and "COD" are in compliance with the "Progressive" limit values of the ZDHC protocol "Wastewater_Guidelines_V2.2_Sept24" (also taking into account the uncertainty), as provided by the Decision Rule applied by us.

The other determined parameters comply with the "Aspirational" limit values of the ZDHC protocol "Wastewater_Guidelines_V2.2_Sept24" (also taking into account the uncertainty), as stipulated in the Decision Rule applied by us.

The analysis laboratory of CRAB Medicina Ambiente Srl is registered at no. 59 in the regional list of the Piedmont Region of laboratories that carry out analyzes as part of the self-control procedures of the food industries.

The analysis laboratory of CRAB Medicina Ambiente S.r.l. has been qualified by the Ministry of Health for the analysis of asbestos in artefacts and in the air (verifiable at <http://www.salute.gov.it/portale/temi/documenti/sicurezzaChimica/liste/piemonte.pdf>).

The analysis laboratory of CRAB Medicina Ambiente Srl is registered at no. IT20005 in the list of laboratories authorized by the Japanese Ministry of Health which carry out analyzes as part of the control procedures of foods intended for export to Japan

The results covered by this test report refer exclusively to the sample subjected to testing, as received.

LOQ = limit of quantification

If the value is preceded by the symbol "<", it is considered to be lower than the quantification or detectability limit. To determine the extended uncertainty of chemical tests, where present, a coverage factor equal to Student's t is used, calculated for a confidence level of 95% and for a number of degrees of freedom equal to the number of effective degrees of freedom. calculated with the Welch-Satterwhite formula. For microbiological tests the confidence limits of MPN/100ml and UFC/l refer to the 95% confidence limit and a coverage factor k = 2.

If the sample is not taken by CRAB technicians, the data relating to description, sampling date and mod. sampling are provided by the customer under his responsibility.

Sampling, marked with (*), is not subject to accreditation, nor are the parameters marked with (*).

The laboratory assumes responsibility for the data deriving from tests entrusted to qualified external laboratories (identified by the # symbol). All external tests were carried out by laboratories accredited and approved by ZDHC.

Partial reproduction of this test report is prohibited without the authorization of the Laboratory.

<p>La Biologa</p>
<p>Firmato digitalmente dalla Biologa Dott.ssa Alessia Brunello Ordine dei Biologi Piemonte Liguria Valle d'Aosta</p>

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Pagina 4\5

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Sigillo n. PLV_A3253

Il Responsabile del Laboratorio

Firmato digitalmente dal
 Responsabile del Laboratorio Analisi
 Dott. Chim. Calogero Alessandro
 Ordine dei Chimici e Fisici del Piemonte e Valle d'Aosta
 Sigillo n. 1978



----- **FINE RAPPORTO DI PROVA** -----

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Pagina 5\5

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